Linear/Logistic Regression

2024-04-21

#STEP1 : Read the data into R  
# data.frame': 5960 obs. of 28 variables  
  
library( rpart )  
library( rpart.plot )  
library( ROCR )  
library( MASS )  
library( randomForest )

## randomForest 4.7-1.1

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

library(gbm)

## Loaded gbm 2.1.9

## This version of gbm is no longer under development. Consider transitioning to gbm3, https://github.com/gbm-developers/gbm3

PATH ="/Users/stellam/Desktop/TRINE/Bigdata&dataScience/HMEQ\_Scrubbed"  
FILE\_NAME ="HMEQ\_Scrubbed.csv"  
INFILE = paste (PATH,FILE\_NAME, sep="/")  
setwd(PATH)  
df = read.csv(FILE\_NAME)  
  
SEED = 1  
set.seed( SEED )  
#  
TARGET = "TARGET\_BAD\_FLAG"  
  
df$TARGET\_LOSS\_AMT = NULL  
#List the structure of the data (str)  
str( df )

## 'data.frame': 5960 obs. of 28 variables:  
## $ TARGET\_BAD\_FLAG : int 1 1 1 1 0 1 1 1 1 1 ...  
## $ LOAN : int 1100 1300 1500 1500 1700 1700 1800 1800 2000 2000 ...  
## $ IMP\_MORTDUE : num 25860 70053 13500 65000 97800 ...  
## $ M\_MORTDUE : int 0 0 0 1 0 0 0 0 0 1 ...  
## $ IMP\_VALUE : num 39025 68400 16700 89000 112000 ...  
## $ M\_VALUE : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_YOJ : num 10.5 7 4 7 3 9 5 11 3 16 ...  
## $ M\_YOJ : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_DEROG : int 0 0 0 1 0 0 3 0 0 0 ...  
## $ M\_DEROG : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_DELINQ : int 0 2 0 1 0 0 2 0 2 0 ...  
## $ M\_DELINQ : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_CLAGE : num 94.4 121.8 149.5 174 93.3 ...  
## $ M\_CLAGE : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_NINQ : int 1 0 1 1 0 1 1 0 1 0 ...  
## $ M\_NINQ : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_CLNO : int 9 14 10 20 14 8 17 8 12 13 ...  
## $ M\_CLNO : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_DEBTINC : num 35 35 35 35 35 ...  
## $ M\_DEBTINC : int 1 1 1 1 1 0 1 0 1 1 ...  
## $ FLAG.Job.Mgr : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ FLAG.Job.Office : int 0 0 0 0 1 0 0 0 0 0 ...  
## $ FLAG.Job.Other : int 1 1 1 0 0 1 1 1 1 0 ...  
## $ FLAG.Job.ProfExe : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ FLAG.Job.Sales : int 0 0 0 0 0 0 0 0 0 1 ...  
## $ FLAG.Job.Self : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ FLAG.Reason.DebtCon: int 0 0 0 0 0 0 0 0 0 0 ...  
## $ FLAG.Reason.HomeImp: int 1 1 1 0 1 1 1 1 1 1 ...

#Execute a summary of the data  
summary( df )

## TARGET\_BAD\_FLAG LOAN IMP\_MORTDUE M\_MORTDUE   
## Min. :0.0000 Min. : 1100 Min. : 2063 Min. :0.00000   
## 1st Qu.:0.0000 1st Qu.:11100 1st Qu.: 48139 1st Qu.:0.00000   
## Median :0.0000 Median :16300 Median : 65000 Median :0.00000   
## Mean :0.1995 Mean :18608 Mean : 72999 Mean :0.08691   
## 3rd Qu.:0.0000 3rd Qu.:23300 3rd Qu.: 88200 3rd Qu.:0.00000   
## Max. :1.0000 Max. :89900 Max. :399550 Max. :1.00000   
## IMP\_VALUE M\_VALUE IMP\_YOJ M\_YOJ   
## Min. : 8000 Min. :0.00000 Min. : 0.000 Min. :0.00000   
## 1st Qu.: 66490 1st Qu.:0.00000 1st Qu.: 3.000 1st Qu.:0.00000   
## Median : 89000 Median :0.00000 Median : 7.000 Median :0.00000   
## Mean :101536 Mean :0.01879 Mean : 8.756 Mean :0.08641   
## 3rd Qu.:119005 3rd Qu.:0.00000 3rd Qu.:12.000 3rd Qu.:0.00000   
## Max. :855909 Max. :1.00000 Max. :41.000 Max. :1.00000   
## IMP\_DEROG M\_DEROG IMP\_DELINQ M\_DELINQ   
## Min. : 0.0000 Min. :0.0000 Min. : 0.000 Min. :0.00000   
## 1st Qu.: 0.0000 1st Qu.:0.0000 1st Qu.: 0.000 1st Qu.:0.00000   
## Median : 0.0000 Median :0.0000 Median : 0.000 Median :0.00000   
## Mean : 0.3431 Mean :0.1188 Mean : 0.503 Mean :0.09732   
## 3rd Qu.: 0.0000 3rd Qu.:0.0000 3rd Qu.: 1.000 3rd Qu.:0.00000   
## Max. :10.0000 Max. :1.0000 Max. :15.000 Max. :1.00000   
## IMP\_CLAGE M\_CLAGE IMP\_NINQ M\_NINQ   
## Min. : 0.0 Min. :0.00000 Min. : 0.00 Min. :0.00000   
## 1st Qu.: 117.4 1st Qu.:0.00000 1st Qu.: 0.00 1st Qu.:0.00000   
## Median : 174.0 Median :0.00000 Median : 1.00 Median :0.00000   
## Mean : 179.5 Mean :0.05168 Mean : 1.17 Mean :0.08557   
## 3rd Qu.: 227.1 3rd Qu.:0.00000 3rd Qu.: 2.00 3rd Qu.:0.00000   
## Max. :1168.2 Max. :1.00000 Max. :17.00 Max. :1.00000   
## IMP\_CLNO M\_CLNO IMP\_DEBTINC M\_DEBTINC   
## Min. : 0.00 Min. :0.00000 Min. : 0.5245 Min. :0.0000   
## 1st Qu.:15.00 1st Qu.:0.00000 1st Qu.: 30.7632 1st Qu.:0.0000   
## Median :20.00 Median :0.00000 Median : 35.0000 Median :0.0000   
## Mean :21.25 Mean :0.03725 Mean : 34.0393 Mean :0.2126   
## 3rd Qu.:26.00 3rd Qu.:0.00000 3rd Qu.: 37.9499 3rd Qu.:0.0000   
## Max. :71.00 Max. :1.00000 Max. :203.3122 Max. :1.0000   
## FLAG.Job.Mgr FLAG.Job.Office FLAG.Job.Other FLAG.Job.ProfExe  
## Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.0000   
## 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000   
## Median :0.0000 Median :0.0000 Median :0.0000 Median :0.0000   
## Mean :0.1287 Mean :0.1591 Mean :0.4007 Mean :0.2141   
## 3rd Qu.:0.0000 3rd Qu.:0.0000 3rd Qu.:1.0000 3rd Qu.:0.0000   
## Max. :1.0000 Max. :1.0000 Max. :1.0000 Max. :1.0000   
## FLAG.Job.Sales FLAG.Job.Self FLAG.Reason.DebtCon FLAG.Reason.HomeImp  
## Min. :0.00000 Min. :0.00000 Min. :0.0000 Min. :0.0000   
## 1st Qu.:0.00000 1st Qu.:0.00000 1st Qu.:0.0000 1st Qu.:0.0000   
## Median :0.00000 Median :0.00000 Median :1.0000 Median :0.0000   
## Mean :0.01829 Mean :0.03238 Mean :0.6591 Mean :0.2987   
## 3rd Qu.:0.00000 3rd Qu.:0.00000 3rd Qu.:1.0000 3rd Qu.:1.0000   
## Max. :1.00000 Max. :1.00000 Max. :1.0000 Max. :1.0000

#Print the first six records  
dim( df )

## [1] 5960 28

df\_flag = df

#SPLIT the datasets into training dataset and test dataset.

dim( df\_flag )

## [1] 5960 28

dim( df\_train )

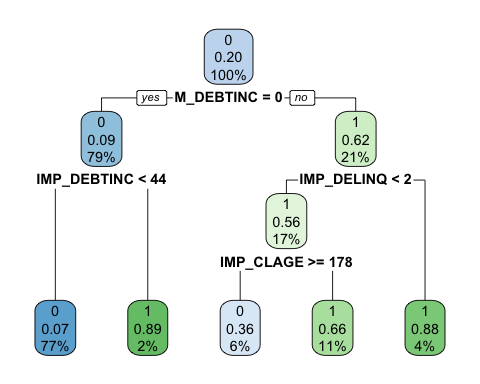
## [1] 4142 28

dim( df\_test )

## [1] 1818 28

#1. DECISION TREE

tr\_set = rpart.control( maxdepth = 10 )  
tr\_model = rpart( data=df\_train, TARGET\_BAD\_FLAG ~ ., control=tr\_set, method="class", parms=list(split='information') )  
rpart.plot( tr\_model )

 #RANDOM FOREST

rf\_model = randomForest( data=df\_train, TARGET\_BAD\_FLAG ~ ., ntree=500, importance=TRUE )

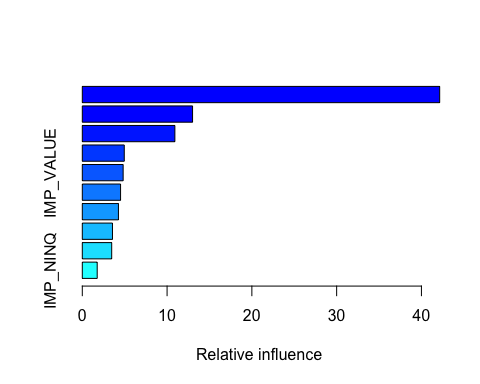
## Warning in randomForest.default(m, y, ...): The response has five or fewer  
## unique values. Are you sure you want to do regression?

rf\_model

##   
## Call:  
## randomForest(formula = TARGET\_BAD\_FLAG ~ ., data = df\_train, ntree = 500, importance = TRUE)   
## Type of random forest: regression  
## Number of trees: 500  
## No. of variables tried at each split: 9  
##   
## Mean of squared residuals: 0.0662375  
## % Var explained: 58.74

#GRADIENT BOOSTING

gb\_model = gbm( data=df\_train, TARGET\_BAD\_FLAG ~ ., n.trees=500, distribution="bernoulli" )  
summary.gbm( gb\_model, cBars=10 )



## var rel.inf  
## M\_DEBTINC M\_DEBTINC 42.15276212  
## IMP\_DEBTINC IMP\_DEBTINC 13.00578764  
## IMP\_DELINQ IMP\_DELINQ 10.91954001  
## IMP\_CLAGE IMP\_CLAGE 4.94970498  
## IMP\_VALUE IMP\_VALUE 4.81763715  
## M\_VALUE M\_VALUE 4.51409149  
## IMP\_DEROG IMP\_DEROG 4.26284516  
## LOAN LOAN 3.55916423  
## IMP\_CLNO IMP\_CLNO 3.46797820  
## IMP\_NINQ IMP\_NINQ 1.75727930  
## IMP\_YOJ IMP\_YOJ 1.65837025  
## IMP\_MORTDUE IMP\_MORTDUE 1.64426153  
## M\_DEROG M\_DEROG 1.27305534  
## FLAG.Job.Sales FLAG.Job.Sales 0.73536853  
## M\_CLNO M\_CLNO 0.54901563  
## M\_YOJ M\_YOJ 0.16877535  
## FLAG.Job.Other FLAG.Job.Other 0.13372343  
## FLAG.Job.Office FLAG.Job.Office 0.12346471  
## FLAG.Job.Mgr FLAG.Job.Mgr 0.06870764  
## FLAG.Reason.DebtCon FLAG.Reason.DebtCon 0.06701971  
## M\_DELINQ M\_DELINQ 0.06598496  
## M\_MORTDUE M\_MORTDUE 0.05293782  
## FLAG.Job.Self FLAG.Job.Self 0.05252482  
## M\_CLAGE M\_CLAGE 0.00000000  
## M\_NINQ M\_NINQ 0.00000000  
## FLAG.Job.ProfExe FLAG.Job.ProfExe 0.00000000  
## FLAG.Reason.HomeImp FLAG.Reason.HomeImp 0.00000000

STEP02 : CLASSIFICATION MODELS

1. Create a LOGISTIC REGRESSION model using ALL the variables to predict the variable TARGET\_BAD\_FLAG

* ALL the variables

theUpper\_LR = glm( TARGET\_BAD\_FLAG ~ ., family = "binomial", data=df\_train )  
theLower\_LR = glm( TARGET\_BAD\_FLAG ~ 1, family = "binomial", data=df\_train )  
summary( theUpper\_LR )

##   
## Call:  
## glm(formula = TARGET\_BAD\_FLAG ~ ., family = "binomial", data = df\_train)  
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -6.817e+00 6.558e-01 -10.395 < 2e-16 \*\*\*  
## LOAN -8.996e-06 5.694e-06 -1.580 0.114122   
## IMP\_MORTDUE -3.482e-06 2.092e-06 -1.664 0.096053 .   
## M\_MORTDUE 3.647e-01 2.491e-01 1.464 0.143231   
## IMP\_VALUE 4.356e-06 1.495e-06 2.914 0.003572 \*\*   
## M\_VALUE 4.945e+00 6.167e-01 8.017 1.08e-15 \*\*\*  
## IMP\_YOJ -2.010e-02 8.271e-03 -2.430 0.015103 \*   
## M\_YOJ -7.720e-01 2.427e-01 -3.181 0.001466 \*\*   
## IMP\_DEROG 5.869e-01 7.617e-02 7.706 1.30e-14 \*\*\*  
## M\_DEROG -2.655e+00 3.603e-01 -7.367 1.74e-13 \*\*\*  
## IMP\_DELINQ 8.182e-01 6.264e-02 13.062 < 2e-16 \*\*\*  
## M\_DELINQ -1.101e+00 4.859e-01 -2.266 0.023465 \*   
## IMP\_CLAGE -5.466e-03 8.103e-04 -6.746 1.52e-11 \*\*\*  
## M\_CLAGE 9.834e-01 4.403e-01 2.233 0.025529 \*   
## IMP\_NINQ 1.528e-01 3.175e-02 4.813 1.48e-06 \*\*\*  
## M\_NINQ -2.494e-01 4.538e-01 -0.550 0.582542   
## IMP\_CLNO -1.600e-02 6.331e-03 -2.527 0.011513 \*   
## M\_CLNO 2.693e+00 7.552e-01 3.565 0.000363 \*\*\*  
## IMP\_DEBTINC 9.231e-02 1.017e-02 9.075 < 2e-16 \*\*\*  
## M\_DEBTINC 2.679e+00 1.144e-01 23.425 < 2e-16 \*\*\*  
## FLAG.Job.Mgr 2.091e+00 4.989e-01 4.191 2.77e-05 \*\*\*  
## FLAG.Job.Office 1.414e+00 5.005e-01 2.824 0.004736 \*\*   
## FLAG.Job.Other 2.081e+00 4.825e-01 4.314 1.60e-05 \*\*\*  
## FLAG.Job.ProfExe 1.972e+00 4.965e-01 3.971 7.16e-05 \*\*\*  
## FLAG.Job.Sales 3.240e+00 5.794e-01 5.592 2.24e-08 \*\*\*  
## FLAG.Job.Self 2.518e+00 5.650e-01 4.456 8.34e-06 \*\*\*  
## FLAG.Reason.DebtCon -1.318e-01 3.661e-01 -0.360 0.718960   
## FLAG.Reason.HomeImp -5.659e-02 3.728e-01 -0.152 0.879329   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 4155.3 on 4141 degrees of freedom  
## Residual deviance: 2248.2 on 4114 degrees of freedom  
## AIC: 2304.2  
##   
## Number of Fisher Scoring iterations: 6

#LOGISTIC REGRESSION w/ FORWARD SELECTION

lr\_model = stepAIC(theUpper\_LR, direction="forward", scope=list(lower=theLower\_LR, upper=theUpper\_LR))

## Start: AIC=2304.21  
## TARGET\_BAD\_FLAG ~ LOAN + IMP\_MORTDUE + M\_MORTDUE + IMP\_VALUE +   
## M\_VALUE + IMP\_YOJ + M\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ +   
## M\_DELINQ + IMP\_CLAGE + M\_CLAGE + IMP\_NINQ + M\_NINQ + IMP\_CLNO +   
## M\_CLNO + IMP\_DEBTINC + M\_DEBTINC + FLAG.Job.Mgr + FLAG.Job.Office +   
## FLAG.Job.Other + FLAG.Job.ProfExe + FLAG.Job.Sales + FLAG.Job.Self +   
## FLAG.Reason.DebtCon + FLAG.Reason.HomeImp

summary( lr\_model )

##   
## Call:  
## glm(formula = TARGET\_BAD\_FLAG ~ LOAN + IMP\_MORTDUE + M\_MORTDUE +   
## IMP\_VALUE + M\_VALUE + IMP\_YOJ + M\_YOJ + IMP\_DEROG + M\_DEROG +   
## IMP\_DELINQ + M\_DELINQ + IMP\_CLAGE + M\_CLAGE + IMP\_NINQ +   
## M\_NINQ + IMP\_CLNO + M\_CLNO + IMP\_DEBTINC + M\_DEBTINC + FLAG.Job.Mgr +   
## FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe + FLAG.Job.Sales +   
## FLAG.Job.Self + FLAG.Reason.DebtCon + FLAG.Reason.HomeImp,   
## family = "binomial", data = df\_train)  
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -6.817e+00 6.558e-01 -10.395 < 2e-16 \*\*\*  
## LOAN -8.996e-06 5.694e-06 -1.580 0.114122   
## IMP\_MORTDUE -3.482e-06 2.092e-06 -1.664 0.096053 .   
## M\_MORTDUE 3.647e-01 2.491e-01 1.464 0.143231   
## IMP\_VALUE 4.356e-06 1.495e-06 2.914 0.003572 \*\*   
## M\_VALUE 4.945e+00 6.167e-01 8.017 1.08e-15 \*\*\*  
## IMP\_YOJ -2.010e-02 8.271e-03 -2.430 0.015103 \*   
## M\_YOJ -7.720e-01 2.427e-01 -3.181 0.001466 \*\*   
## IMP\_DEROG 5.869e-01 7.617e-02 7.706 1.30e-14 \*\*\*  
## M\_DEROG -2.655e+00 3.603e-01 -7.367 1.74e-13 \*\*\*  
## IMP\_DELINQ 8.182e-01 6.264e-02 13.062 < 2e-16 \*\*\*  
## M\_DELINQ -1.101e+00 4.859e-01 -2.266 0.023465 \*   
## IMP\_CLAGE -5.466e-03 8.103e-04 -6.746 1.52e-11 \*\*\*  
## M\_CLAGE 9.834e-01 4.403e-01 2.233 0.025529 \*   
## IMP\_NINQ 1.528e-01 3.175e-02 4.813 1.48e-06 \*\*\*  
## M\_NINQ -2.494e-01 4.538e-01 -0.550 0.582542   
## IMP\_CLNO -1.600e-02 6.331e-03 -2.527 0.011513 \*   
## M\_CLNO 2.693e+00 7.552e-01 3.565 0.000363 \*\*\*  
## IMP\_DEBTINC 9.231e-02 1.017e-02 9.075 < 2e-16 \*\*\*  
## M\_DEBTINC 2.679e+00 1.144e-01 23.425 < 2e-16 \*\*\*  
## FLAG.Job.Mgr 2.091e+00 4.989e-01 4.191 2.77e-05 \*\*\*  
## FLAG.Job.Office 1.414e+00 5.005e-01 2.824 0.004736 \*\*   
## FLAG.Job.Other 2.081e+00 4.825e-01 4.314 1.60e-05 \*\*\*  
## FLAG.Job.ProfExe 1.972e+00 4.965e-01 3.971 7.16e-05 \*\*\*  
## FLAG.Job.Sales 3.240e+00 5.794e-01 5.592 2.24e-08 \*\*\*  
## FLAG.Job.Self 2.518e+00 5.650e-01 4.456 8.34e-06 \*\*\*  
## FLAG.Reason.DebtCon -1.318e-01 3.661e-01 -0.360 0.718960   
## FLAG.Reason.HomeImp -5.659e-02 3.728e-01 -0.152 0.879329   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 4155.3 on 4141 degrees of freedom  
## Residual deviance: 2248.2 on 4114 degrees of freedom  
## AIC: 2304.2  
##   
## Number of Fisher Scoring iterations: 6

#LOGISTIC REGRESSION Model w/ BACKWARD SELECTION 2. Create a LOGISTIC REGRESSION model and using BACKWARD VARIABLE SELECTION

lr\_model\_2 = stepAIC(theLower\_LR, direction="backward", scope=list(lower=theLower\_LR, upper=theUpper\_LR))

## Start: AIC=4157.3  
## TARGET\_BAD\_FLAG ~ 1

summary( lr\_model\_2 )

##   
## Call:  
## glm(formula = TARGET\_BAD\_FLAG ~ 1, family = "binomial", data = df\_train)  
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -1.38087 0.03878 -35.61 <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: 4155.3 on 4141 degrees of freedom  
## Residual deviance: 4155.3 on 4141 degrees of freedom  
## AIC: 4157.3  
##   
## Number of Fisher Scoring iterations: 4

#LOGISTIC REGRESSION w/ DECISION TREE and FORWARD STEPWISE SELECTION

1. Create a LOGISTIC REGRESSION model and using a DECISION TREE and FORWARD STEPWISE SELECTION.

#DECISION TREE  
treeVars = tr\_model$variable.importance  
treeVars = names(treeVars)  
treeVarsPlus = paste( treeVars, collapse="+")  
F = as.formula( paste( "TARGET\_BAD\_FLAG ~", treeVarsPlus ))  
  
tree\_LR = glm( F, family = "binomial", data=df\_train )  
theLower\_LR = glm( TARGET\_BAD\_FLAG ~ 1, family = "binomial", data=df\_train )

#Logistic Regression Model with forward stepwise selection  
lrt\_model\_3 = stepAIC(theLower\_LR, direction="forward", scope=list(lower=theLower\_LR, upper=tree\_LR))

## Start: AIC=4157.3  
## TARGET\_BAD\_FLAG ~ 1  
##   
## Df Deviance AIC  
## + M\_DEBTINC 1 3088.5 3092.5  
## + IMP\_DELINQ 1 3776.4 3780.4  
## + M\_VALUE 1 3942.8 3946.8  
## + IMP\_CLAGE 1 4020.9 4024.9  
## + IMP\_DEBTINC 1 4051.1 4055.1  
## + LOAN 1 4133.3 4137.3  
## + IMP\_YOJ 1 4144.0 4148.0  
## + IMP\_MORTDUE 1 4150.4 4154.4  
## + IMP\_VALUE 1 4153.1 4157.1  
## <none> 4155.3 4157.3  
## + IMP\_CLNO 1 4155.3 4159.3  
##   
## Step: AIC=3092.5  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC  
##   
## Df Deviance AIC  
## + IMP\_DELINQ 1 2861.2 2867.2  
## + M\_VALUE 1 2972.0 2978.0  
## + IMP\_DEBTINC 1 2977.4 2983.4  
## + IMP\_CLAGE 1 3006.3 3012.3  
## + IMP\_YOJ 1 3075.2 3081.2  
## <none> 3088.5 3092.5  
## + LOAN 1 3086.7 3092.7  
## + IMP\_CLNO 1 3088.2 3094.2  
## + IMP\_VALUE 1 3088.3 3094.3  
## + IMP\_MORTDUE 1 3088.5 3094.5  
##   
## Step: AIC=2867.17  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ  
##   
## Df Deviance AIC  
## + IMP\_CLAGE 1 2751.2 2759.2  
## + IMP\_DEBTINC 1 2753.8 2761.8  
## + M\_VALUE 1 2778.9 2786.9  
## + IMP\_YOJ 1 2836.1 2844.1  
## + IMP\_CLNO 1 2850.8 2858.8  
## <none> 2861.2 2867.2  
## + LOAN 1 2859.8 2867.8  
## + IMP\_VALUE 1 2860.8 2868.8  
## + IMP\_MORTDUE 1 2861.1 2869.1  
##   
## Step: AIC=2759.17  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE  
##   
## Df Deviance AIC  
## + IMP\_DEBTINC 1 2650.4 2660.4  
## + M\_VALUE 1 2672.4 2682.4  
## + IMP\_YOJ 1 2741.4 2751.4  
## + IMP\_VALUE 1 2743.9 2753.9  
## <none> 2751.2 2759.2  
## + IMP\_MORTDUE 1 2749.2 2759.2  
## + IMP\_CLNO 1 2751.2 2761.2  
## + LOAN 1 2751.2 2761.2  
##   
## Step: AIC=2660.38  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC  
##   
## Df Deviance AIC  
## + M\_VALUE 1 2554.2 2566.2  
## + IMP\_YOJ 1 2644.2 2656.2  
## + IMP\_VALUE 1 2646.5 2658.5  
## + IMP\_CLNO 1 2648.2 2660.2  
## <none> 2650.4 2660.4  
## + LOAN 1 2650.0 2662.0  
## + IMP\_MORTDUE 1 2650.1 2662.1  
##   
## Step: AIC=2566.19  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE  
##   
## Df Deviance AIC  
## + IMP\_YOJ 1 2547.7 2561.7  
## + IMP\_VALUE 1 2549.6 2563.6  
## <none> 2554.2 2566.2  
## + IMP\_CLNO 1 2552.5 2566.5  
## + LOAN 1 2553.3 2567.3  
## + IMP\_MORTDUE 1 2554.2 2568.2  
##   
## Step: AIC=2561.67  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + IMP\_YOJ  
##   
## Df Deviance AIC  
## + IMP\_VALUE 1 2542.8 2558.8  
## <none> 2547.7 2561.7  
## + IMP\_CLNO 1 2545.9 2561.9  
## + LOAN 1 2547.2 2563.2  
## + IMP\_MORTDUE 1 2547.7 2563.7  
##   
## Step: AIC=2558.79  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + IMP\_YOJ + IMP\_VALUE  
##   
## Df Deviance AIC  
## + IMP\_MORTDUE 1 2538.0 2556.0  
## + IMP\_CLNO 1 2539.4 2557.4  
## + LOAN 1 2540.5 2558.5  
## <none> 2542.8 2558.8  
##   
## Step: AIC=2556.04  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + IMP\_YOJ + IMP\_VALUE + IMP\_MORTDUE  
##   
## Df Deviance AIC  
## + LOAN 1 2535.7 2555.7  
## + IMP\_CLNO 1 2536.0 2556.0  
## <none> 2538.0 2556.0  
##   
## Step: AIC=2555.73  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + IMP\_YOJ + IMP\_VALUE + IMP\_MORTDUE + LOAN  
##   
## Df Deviance AIC  
## <none> 2535.7 2555.7  
## + IMP\_CLNO 1 2533.8 2555.8

summary( lrt\_model\_3 )

##   
## Call:  
## glm(formula = TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE +   
## IMP\_DEBTINC + M\_VALUE + IMP\_YOJ + IMP\_VALUE + IMP\_MORTDUE +   
## LOAN, family = "binomial", data = df\_train)  
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -4.723e+00 3.904e-01 -12.097 < 2e-16 \*\*\*  
## M\_DEBTINC 2.777e+00 1.064e-01 26.096 < 2e-16 \*\*\*  
## IMP\_DELINQ 6.697e-01 5.095e-02 13.145 < 2e-16 \*\*\*  
## IMP\_CLAGE -6.506e-03 7.373e-04 -8.823 < 2e-16 \*\*\*  
## IMP\_DEBTINC 8.820e-02 9.577e-03 9.210 < 2e-16 \*\*\*  
## M\_VALUE 3.897e+00 4.959e-01 7.858 3.91e-15 \*\*\*  
## IMP\_YOJ -2.093e-02 7.882e-03 -2.655 0.00793 \*\*   
## IMP\_VALUE 4.432e-06 1.370e-06 3.236 0.00121 \*\*   
## IMP\_MORTDUE -4.005e-06 1.890e-06 -2.119 0.03408 \*   
## LOAN -7.589e-06 5.054e-06 -1.502 0.13323   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 4155.3 on 4141 degrees of freedom  
## Residual deviance: 2535.7 on 4132 degrees of freedom  
## AIC: 2555.7  
##   
## Number of Fisher Scoring iterations: 6

#List the important variables from the Logistic Regression Variable Selections.

#LOGISTIC REGRESSION w/ FORWARD SELECTION  
glm(lr\_model)

##   
## Call: glm(formula = lr\_model)  
##   
## Coefficients:  
## (Intercept) LOAN IMP\_MORTDUE   
## -1.532e-01 -9.306e-07 -4.810e-07   
## M\_MORTDUE IMP\_VALUE M\_VALUE   
## 4.318e-02 4.894e-07 4.073e-01   
## IMP\_YOJ M\_YOJ IMP\_DEROG   
## -1.921e-03 -6.684e-02 6.430e-02   
## M\_DEROG IMP\_DELINQ M\_DELINQ   
## -1.876e-01 8.064e-02 -7.368e-02   
## IMP\_CLAGE M\_CLAGE IMP\_NINQ   
## -4.190e-04 1.122e-01 1.569e-02   
## M\_NINQ IMP\_CLNO M\_CLNO   
## -6.158e-04 -1.351e-03 1.096e-01   
## IMP\_DEBTINC M\_DEBTINC FLAG.Job.Mgr   
## 6.085e-03 4.010e-01 1.247e-01   
## FLAG.Job.Office FLAG.Job.Other FLAG.Job.ProfExe   
## 8.408e-02 1.327e-01 1.156e-01   
## FLAG.Job.Sales FLAG.Job.Self FLAG.Reason.DebtCon   
## 2.610e-01 1.560e-01 -7.002e-03   
## FLAG.Reason.HomeImp   
## 1.204e-02   
##   
## Degrees of Freedom: 4141 Total (i.e. Null); 4114 Residual  
## Null Deviance: 664.9   
## Residual Deviance: 368.2 AIC: 1788

#LOGISTIC REGRESSION Model w/ BACKWARD SELECTION  
glm(lr\_model\_2)

##   
## Call: glm(formula = lr\_model\_2)  
##   
## Coefficients:  
## (Intercept)   
## 0.2009   
##   
## Degrees of Freedom: 4141 Total (i.e. Null); 4141 Residual  
## Null Deviance: 664.9   
## Residual Deviance: 664.9 AIC: 4181

#LOGISTIC REGRESSION w/ DECISION TREE and FORWARD STEPWISE SELECTION  
glm(lrt\_model\_3)

##   
## Call: glm(formula = lrt\_model\_3)  
##   
## Coefficients:  
## (Intercept) M\_DEBTINC IMP\_DELINQ IMP\_CLAGE IMP\_DEBTINC M\_VALUE   
## -3.029e-02 4.465e-01 7.520e-02 -5.290e-04 6.059e-03 4.172e-01   
## IMP\_YOJ IMP\_VALUE IMP\_MORTDUE LOAN   
## -2.013e-03 5.434e-07 -6.116e-07 -8.555e-07   
##   
## Degrees of Freedom: 4141 Total (i.e. Null); 4132 Residual  
## Null Deviance: 664.9   
## Residual Deviance: 399.6 AIC: 2090

#Compare the variables from the logistic Regression with those of the Random Forest and the Gradient Boosting.

Logistic Regression Model with forward selection :

LOAN + IMP\_MORTDUE + M\_MORTDUE +   
IMP\_VALUE + M\_VALUE + IMP\_YOJ + M\_YOJ + IMP\_DEROG + M\_DEROG +   
IMP\_DELINQ + M\_DELINQ + IMP\_CLAGE + M\_CLAGE + IMP\_NINQ +   
M\_NINQ + IMP\_CLNO + M\_CLNO + IMP\_DEBTINC + M\_DEBTINC + FLAG.Job.Mgr +   
FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe + FLAG.Job.Sales +   
FLAG.Job.Self + FLAG.Reason.DebtCon + FLAG.Reason.HomeImp

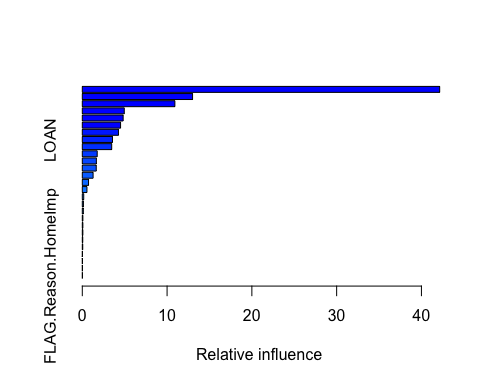
RANDOM FOREST : LOAN + IMP\_MORTDUE + M\_MORTDUE + IMP\_VALUE + M\_VALUE + IMP\_YOJ + M\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ + M\_DELINQ + IMP\_CLAGE + M\_CLAGE + IMP\_NINQ + M\_NINQ + IMP\_CLNO + M\_CLNO + IMP\_DEBTINC + M\_DEBTINC + FLAG.Job.Mgr + FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe + FLAG.Job.Sales + FLAG.Job.Self + FLAG.Reason.DebtCon + FLAG.Reason.HomeImp

GRAIDENT BOOSTING : M\_DEBTINC IMP\_DEBTINC IMP\_DELINQ IMP\_CLAGE IMP\_VALUE M\_VALUE IMP\_DEROG LOAN IMP\_CLNO IMP\_NINQ

#RANDOM FOREST  
rf\_model$importance

## %IncMSE IncNodePurity  
## LOAN 0.0159419003 38.993106  
## IMP\_MORTDUE 0.0234068563 35.266432  
## M\_MORTDUE 0.0016891083 2.349943  
## IMP\_VALUE 0.0231282638 43.056864  
## M\_VALUE 0.0137469911 18.739138  
## IMP\_YOJ 0.0142021137 31.086101  
## M\_YOJ 0.0012577501 2.944031  
## IMP\_DEROG 0.0147603845 21.754538  
## M\_DEROG 0.0030132125 4.951353  
## IMP\_DELINQ 0.0371963423 48.238429  
## M\_DELINQ 0.0016259138 2.107158  
## IMP\_CLAGE 0.0348745713 55.559885  
## M\_CLAGE 0.0017993423 1.840701  
## IMP\_NINQ 0.0118052637 17.852157  
## M\_NINQ 0.0019974586 2.082765  
## IMP\_CLNO 0.0230424836 37.694496  
## M\_CLNO 0.0008400593 1.103966  
## IMP\_DEBTINC 0.0497632454 104.953372  
## M\_DEBTINC 0.0346049524 130.591066  
## FLAG.Job.Mgr 0.0021009462 3.765830  
## FLAG.Job.Office 0.0021596184 5.148490  
## FLAG.Job.Other 0.0044601769 5.102794  
## FLAG.Job.ProfExe 0.0019630762 3.935220  
## FLAG.Job.Sales 0.0025384804 3.364372  
## FLAG.Job.Self 0.0007569286 1.883075  
## FLAG.Reason.DebtCon 0.0024958739 3.814255  
## FLAG.Reason.HomeImp 0.0022467261 3.908644

#GRAIDENT BOOSTING  
summary(gb\_model)



## var rel.inf  
## M\_DEBTINC M\_DEBTINC 42.15276212  
## IMP\_DEBTINC IMP\_DEBTINC 13.00578764  
## IMP\_DELINQ IMP\_DELINQ 10.91954001  
## IMP\_CLAGE IMP\_CLAGE 4.94970498  
## IMP\_VALUE IMP\_VALUE 4.81763715  
## M\_VALUE M\_VALUE 4.51409149  
## IMP\_DEROG IMP\_DEROG 4.26284516  
## LOAN LOAN 3.55916423  
## IMP\_CLNO IMP\_CLNO 3.46797820  
## IMP\_NINQ IMP\_NINQ 1.75727930  
## IMP\_YOJ IMP\_YOJ 1.65837025  
## IMP\_MORTDUE IMP\_MORTDUE 1.64426153  
## M\_DEROG M\_DEROG 1.27305534  
## FLAG.Job.Sales FLAG.Job.Sales 0.73536853  
## M\_CLNO M\_CLNO 0.54901563  
## M\_YOJ M\_YOJ 0.16877535  
## FLAG.Job.Other FLAG.Job.Other 0.13372343  
## FLAG.Job.Office FLAG.Job.Office 0.12346471  
## FLAG.Job.Mgr FLAG.Job.Mgr 0.06870764  
## FLAG.Reason.DebtCon FLAG.Reason.DebtCon 0.06701971  
## M\_DELINQ M\_DELINQ 0.06598496  
## M\_MORTDUE M\_MORTDUE 0.05293782  
## FLAG.Job.Self FLAG.Job.Self 0.05252482  
## M\_CLAGE M\_CLAGE 0.00000000  
## M\_NINQ M\_NINQ 0.00000000  
## FLAG.Job.ProfExe FLAG.Job.ProfExe 0.00000000  
## FLAG.Reason.HomeImp FLAG.Reason.HomeImp 0.00000000

# Using the testing data set, create a ROC curves for all models. They must all be on the same plot.

# TREE  
pt = predict( tr\_model, df\_test, type="prob" )  
head( pt )

## 0 1  
## 4 0.3354839 0.66451613  
## 6 0.9315112 0.06848885  
## 7 0.1206897 0.87931034  
## 15 0.3354839 0.66451613  
## 17 0.1206897 0.87931034  
## 18 0.9315112 0.06848885

pt2 = prediction( pt[,2], df\_test$TARGET\_BAD\_FLAG )  
pt3 = performance( pt2, "tpr", "fpr" )  
#RF  
pr = predict( rf\_model, df\_test )  
head( pr )

## 4 6 7 15 17 18   
## 0.7966524 0.8313333 0.9241667 0.7746333 0.9212667 0.3462000

pr2 = prediction( pr, df\_test$TARGET\_BAD\_FLAG )  
pr3 = performance( pr2, "tpr", "fpr" )  
# GRADIENT BOOSTING  
pg = predict( gb\_model, df\_test, type="response" )

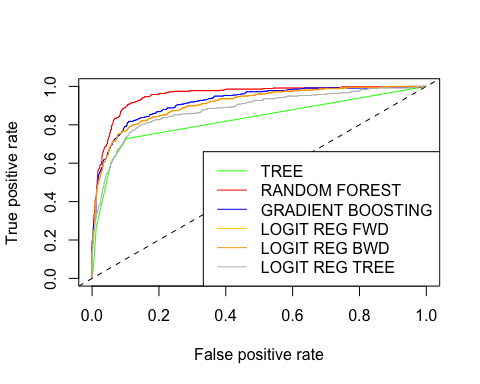
## Using 500 trees...

head( pg )

## [1] 0.9666599 0.4323602 0.9940194 0.8066121 0.9980174 0.9721196

pg2 = prediction( pg, df\_test$TARGET\_BAD\_FLAG )  
pg3 = performance( pg2, "tpr", "fpr" )  
# LOGISTIC FORWARD  
plr = predict( lr\_model, df\_test, type="response" )  
plr2 = prediction( plr, df\_test$TARGET\_BAD\_FLAG )  
plr3 = performance( plr2, "tpr", "fpr" )  
# LOGISTIC BACKWARD  
plrb = predict( lr\_model\_2, df\_test, type="response" )  
plrb2 = prediction( plr, df\_test$TARGET\_BAD\_FLAG )  
plrb3 = performance( plr2, "tpr", "fpr" )  
# LR DECISION STEP TREE  
plrt = predict( lrt\_model\_3, df\_test, type="response" )  
plrt2 = prediction( plrt, df\_test$TARGET\_BAD\_FLAG )  
plrt3 = performance( plrt2, "tpr", "fpr" )

plot( pt3, col="green" )  
plot( pr3, col="red", add=TRUE )  
plot( pg3, col="blue", add=TRUE )  
plot( plr3, col="gold", add=TRUE )   
plot(plrb3, col ="orange", add=TRUE)  
plot( plrt3, col="gray", add=TRUE )   
  
abline(0,1,lty=2)  
legend("bottomright",c("TREE","RANDOM FOREST", "GRADIENT BOOSTING", "LOGIT REG FWD", "LOGIT REG BWD", "LOGIT REG TREE"),col=c("green","red","blue","gold","orange","gray"), bty="y", lty=1 )



aucT = performance( pt2, "auc" )@y.values  
aucR = performance( pr2, "auc" )@y.values  
aucG = performance( pg2, "auc" )@y.values  
aucLR = performance( plr2, "auc")@y.values  
aucLRB = performance( plrb2, "auc")@y.values  
aucLRT = performance( plrt2, "auc")@y.values  
  
print( paste("TREE AUC=", aucT) )

## [1] "TREE AUC= 0.826618121581281"

print( paste("RF AUC=", aucR) )

## [1] "RF AUC= 0.953436405362943"

print( paste("GB AUC=", aucG) )

## [1] "GB AUC= 0.920521802150007"

print( paste("LR AUC=", aucLRB) )

## [1] "LR AUC= 0.910306627784587"

print( paste("LRT AUC=", aucLRT) )

## [1] "LRT AUC= 0.879705201724766"

#Write a summary about which moddel performed the best and why :

AUC Values are as below : \* Random Forest (RF): 0.9534 \* Gradient Boosting (GB): 0.9205 \* Logistic Regression (LR): 0.9103 \* Logistic Regression Tree (LRT): 0.8797 \* Decision Tree (TREE): 0.8266 The Random Forest model has the highest AUC value of 0.9534 among others. It indicates that it has the best predictive accuracy. Second best predictive model is Gradient Boosting, then Logistic Regression, Logistic Regression Tree, and lastly, the single Decision Tree. As a superior performance model, it should be fit model as the Random Forest model outperforms the other models. Based on the variables in the RF model, “LOAN + IMP\_MORTDUE + M\_MORTDUE + IMP\_VALUE + M\_VALUE + IMP\_YOJ + M\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ + M\_DELINQ + IMP\_CLAGE + M\_CLAGE + IMP\_NINQ + M\_NINQ + IMP\_CLNO + M\_CLNO + IMP\_DEBTINC + M\_DEBTINC + FLAG.Job.Mgr + FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe + FLAG.Job.Sales + FLAG.Job.Self + FLAG.Reason.DebtCon + FLAG.Reason.HomeImp” will be the varibles considered to be important in an order.

Step 3: Linear Regression to meausre the damage

PATH ="/Users/stellam/Desktop/TRINE/Bigdata&dataScience/HMEQ\_Scrubbed"  
FILE\_NAME ="HMEQ\_Scrubbed.csv"  
INFILE = paste (PATH,FILE\_NAME, sep="/")  
setwd(PATH)  
df = read.csv(FILE\_NAME)  
  
SEED = 1  
set.seed( SEED )  
  
TARGET = "TARGET\_LOSS\_AMT"  
df$TARGET\_BAD\_FALG = NULL  
  
df\_amt = df  
FLAG = sample( c( TRUE, FALSE ), nrow(df\_amt), replace=TRUE, prob=c(0.7,0.3))  
df\_train = df\_amt[FLAG, ]  
df\_test = df\_amt[! FLAG, ]

mean( df\_amt$TARGET\_LOSS\_AMT )

## [1] 2676.163

mean( df\_train$TARGET\_LOSS\_AMT )

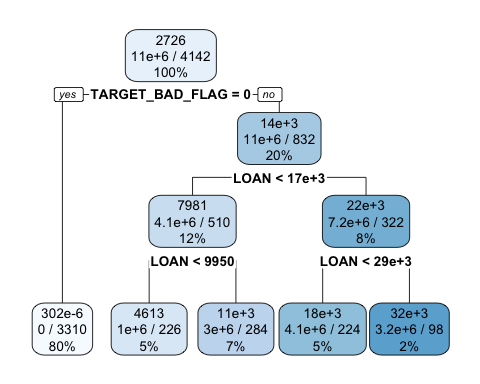
## [1] 2726.379

mean( df\_test$TARGET\_LOSS\_AMT )

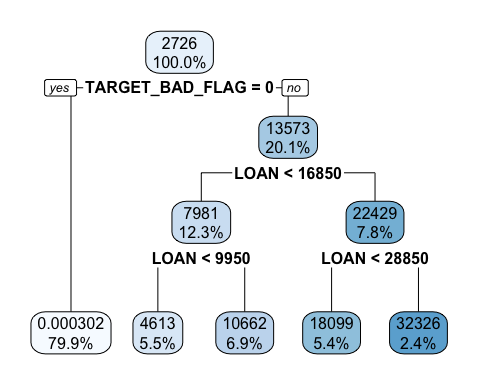
## [1] 2561.755

#DECISION TREE

# TREE  
  
tr\_set = rpart.control( maxdepth = 10 )  
  
tr\_model = rpart( data=df\_train, TARGET\_LOSS\_AMT ~ ., control=tr\_set, method="poisson" )  
rpart.plot( tr\_model )



rpart.plot( tr\_model, digits=-3, extra=100 )



tr\_model$variable.importance

## TARGET\_BAD\_FLAG M\_DEBTINC LOAN IMP\_DELINQ   
## 36251736.50 9367936.72 4119721.09 3398600.30   
## M\_VALUE IMP\_DEBTINC IMP\_DEROG IMP\_VALUE   
## 3093597.71 2507137.05 2135018.14 1044619.71   
## IMP\_MORTDUE IMP\_CLAGE FLAG.Reason.HomeImp FLAG.Job.Self   
## 788428.37 182144.06 137784.31 136608.05   
## FLAG.Reason.DebtCon IMP\_CLNO IMP\_YOJ IMP\_NINQ   
## 113469.44 56734.72 23535.84 17651.88

pt = predict( tr\_model, df\_test )  
head( pt )

## 4 6 7 15 17 18   
## 4612.683 4612.683 4612.683 4612.683 4612.683 4612.683

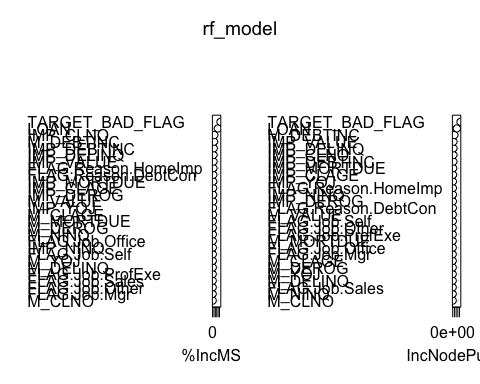
RMSEt = sqrt( mean( ( df\_test$TARGET\_LOSS\_AMT - pt )^2 ) )

#RANDOM FOREST

rf\_model = randomForest( data=df\_train, TARGET\_LOSS\_AMT ~ ., ntree=500, importance=TRUE )  
importance( rf\_model )

## %IncMSE IncNodePurity  
## TARGET\_BAD\_FLAG 114.189392 90816671182  
## LOAN 75.056081 48273239979  
## IMP\_MORTDUE 9.345253 5420762996  
## M\_MORTDUE 4.308162 256607606  
## IMP\_VALUE 12.997514 9226894152  
## M\_VALUE 7.506812 1353170893  
## IMP\_YOJ 5.922053 2559274253  
## M\_YOJ 2.921449 165042523  
## IMP\_DEROG 8.189313 2001553129  
## M\_DEROG 3.512038 198306664  
## IMP\_DELINQ 13.530822 9133792194  
## M\_DELINQ 2.771952 95545234  
## IMP\_CLAGE 8.408003 4220036914  
## M\_CLAGE 5.735034 200217793  
## IMP\_NINQ 3.331829 2438408614  
## M\_NINQ 3.445997 78512611  
## IMP\_CLNO 25.438137 8733141717  
## M\_CLNO 1.505593 22260760  
## IMP\_DEBTINC 16.794164 8115505422  
## M\_DEBTINC 20.627929 19813664556  
## FLAG.Job.Mgr 1.576908 242210982  
## FLAG.Job.Office 3.422240 255025096  
## FLAG.Job.Other 1.735363 318462520  
## FLAG.Job.ProfExe 1.861185 286201560  
## FLAG.Job.Sales 1.753181 91196945  
## FLAG.Job.Self 3.252411 1317932382  
## FLAG.Reason.DebtCon 10.313082 1684462365  
## FLAG.Reason.HomeImp 12.301864 2440730616

varImpPlot( rf\_model )



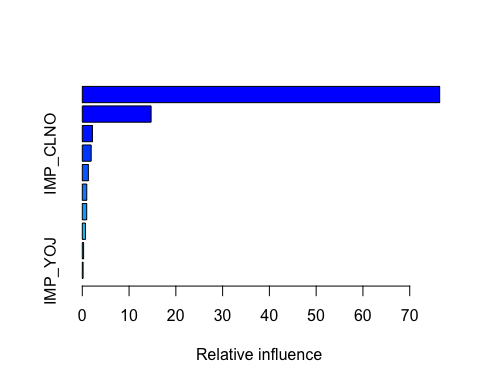
pr = predict( rf\_model, df\_test )  
head( pr )

## 4 6 7 15 17 18   
## 5048.191 1008.149 3784.140 3165.406 7537.541 3818.803

RMSEr = sqrt( mean( ( df\_test$TARGET\_LOSS\_AMT - pr )^2 ) )

# GRADIENT BOOSTING

gb\_model = gbm( data=df\_train, TARGET\_LOSS\_AMT ~ ., n.trees=500, distribution="poisson" )  
summary.gbm( gb\_model, cBars=10 )



## var rel.inf  
## TARGET\_BAD\_FLAG TARGET\_BAD\_FLAG 76.40712502  
## LOAN LOAN 14.70862087  
## IMP\_DELINQ IMP\_DELINQ 2.16771421  
## IMP\_CLNO IMP\_CLNO 1.89809647  
## IMP\_DEBTINC IMP\_DEBTINC 1.29616184  
## M\_DEBTINC M\_DEBTINC 0.95589402  
## IMP\_VALUE IMP\_VALUE 0.94668664  
## IMP\_CLAGE IMP\_CLAGE 0.67110739  
## IMP\_DEROG IMP\_DEROG 0.28055448  
## IMP\_YOJ IMP\_YOJ 0.17128213  
## FLAG.Job.Self FLAG.Job.Self 0.13445379  
## IMP\_MORTDUE IMP\_MORTDUE 0.10245563  
## FLAG.Reason.DebtCon FLAG.Reason.DebtCon 0.08622134  
## FLAG.Job.Sales FLAG.Job.Sales 0.05734676  
## M\_VALUE M\_VALUE 0.05664074  
## IMP\_NINQ IMP\_NINQ 0.03805345  
## FLAG.Reason.HomeImp FLAG.Reason.HomeImp 0.02158522  
## M\_MORTDUE M\_MORTDUE 0.00000000  
## M\_YOJ M\_YOJ 0.00000000  
## M\_DEROG M\_DEROG 0.00000000  
## M\_DELINQ M\_DELINQ 0.00000000  
## M\_CLAGE M\_CLAGE 0.00000000  
## M\_NINQ M\_NINQ 0.00000000  
## M\_CLNO M\_CLNO 0.00000000  
## FLAG.Job.Mgr FLAG.Job.Mgr 0.00000000  
## FLAG.Job.Office FLAG.Job.Office 0.00000000  
## FLAG.Job.Other FLAG.Job.Other 0.00000000  
## FLAG.Job.ProfExe FLAG.Job.ProfExe 0.00000000

pg = predict( gb\_model, df\_test, type="response" )

## Using 500 trees...

head( pg )

## [1] 2624.8750 1449.3798 3165.8499 2610.4421 3653.5035 689.7229

RMSEg = sqrt( mean( ( df\_test$TARGET\_LOSS\_AMT - pg )^2 ) )

#Linear regression model with all the variables

theUpper\_LR = lm( TARGET\_LOSS\_AMT ~ ., data=df\_train )  
theLower\_LR = lm( TARGET\_LOSS\_AMT ~ 1, data=df\_train )  
  
  
lrf\_model = stepAIC(theLower\_LR, direction="forward", scope=list(lower=theLower\_LR, upper=theUpper\_LR))

## Start: AIC=73734.01  
## TARGET\_LOSS\_AMT ~ 1  
##   
## Df Sum of Sq RSS AIC  
## + TARGET\_BAD\_FLAG 1 1.2249e+11 1.0042e+11 70433  
## + M\_DEBTINC 1 4.7153e+10 1.7575e+11 72752  
## + IMP\_DELINQ 1 2.9356e+10 1.9355e+11 73151  
## + M\_VALUE 1 1.0850e+10 2.1205e+11 73529  
## + LOAN 1 9.4873e+09 2.1341e+11 73556  
## + IMP\_DEROG 1 9.3922e+09 2.1351e+11 73558  
## + IMP\_DEBTINC 1 7.7321e+09 2.1517e+11 73590  
## + IMP\_NINQ 1 6.5037e+09 2.1640e+11 73613  
## + IMP\_CLNO 1 3.7741e+09 2.1913e+11 73665  
## + IMP\_CLAGE 1 3.3814e+09 2.1952e+11 73673  
## + IMP\_VALUE 1 3.0724e+09 2.1983e+11 73679  
## + FLAG.Job.Self 1 2.9256e+09 2.1998e+11 73681  
## + IMP\_MORTDUE 1 1.5436e+09 2.2136e+11 73707  
## + FLAG.Reason.HomeImp 1 1.1946e+09 2.2171e+11 73714  
## + FLAG.Reason.DebtCon 1 9.6462e+08 2.2194e+11 73718  
## + M\_DELINQ 1 9.1543e+08 2.2199e+11 73719  
## + M\_YOJ 1 8.5650e+08 2.2205e+11 73720  
## + M\_DEROG 1 8.3039e+08 2.2207e+11 73721  
## + FLAG.Job.Office 1 7.8093e+08 2.2212e+11 73721  
## + M\_NINQ 1 6.7307e+08 2.2223e+11 73723  
## + FLAG.Job.Sales 1 5.7363e+08 2.2233e+11 73725  
## + IMP\_YOJ 1 2.7913e+08 2.2262e+11 73731  
## + M\_CLAGE 1 1.5448e+08 2.2275e+11 73733  
## + FLAG.Job.Mgr 1 1.5356e+08 2.2275e+11 73733  
## + M\_MORTDUE 1 1.3042e+08 2.2277e+11 73734  
## <none> 2.2290e+11 73734  
## + M\_CLNO 1 8.2695e+07 2.2282e+11 73734  
## + FLAG.Job.ProfExe 1 6.1698e+07 2.2284e+11 73735  
## + FLAG.Job.Other 1 5.6571e+06 2.2290e+11 73736  
##   
## Step: AIC=70433.13  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG  
##   
## Df Sum of Sq RSS AIC  
## + LOAN 1 1.4929e+10 8.5487e+10 69768  
## + IMP\_VALUE 1 4.0092e+09 9.6407e+10 70266  
## + IMP\_CLNO 1 3.9067e+09 9.6509e+10 70271  
## + IMP\_DELINQ 1 3.6093e+09 9.6807e+10 70284  
## + IMP\_MORTDUE 1 2.6211e+09 9.7795e+10 70326  
## + FLAG.Reason.HomeImp 1 2.0569e+09 9.8359e+10 70349  
## + FLAG.Reason.DebtCon 1 1.7158e+09 9.8700e+10 70364  
## + FLAG.Job.Self 1 1.4839e+09 9.8932e+10 70373  
## + IMP\_DEBTINC 1 1.1197e+09 9.9296e+10 70389  
## + M\_DEBTINC 1 9.1692e+08 9.9499e+10 70397  
## + IMP\_NINQ 1 5.0230e+08 9.9914e+10 70414  
## + M\_CLAGE 1 2.8998e+08 1.0013e+11 70423  
## + IMP\_DEROG 1 2.6898e+08 1.0015e+11 70424  
## + FLAG.Job.Other 1 2.5115e+08 1.0016e+11 70425  
## + M\_VALUE 1 1.9168e+08 1.0022e+11 70427  
## + M\_MORTDUE 1 1.3220e+08 1.0028e+11 70430  
## + M\_CLNO 1 1.0673e+08 1.0031e+11 70431  
## + M\_NINQ 1 6.9180e+07 1.0035e+11 70432  
## <none> 1.0042e+11 70433  
## + M\_DELINQ 1 3.9859e+07 1.0038e+11 70433  
## + FLAG.Job.Office 1 2.4143e+07 1.0039e+11 70434  
## + FLAG.Job.ProfExe 1 1.8507e+07 1.0040e+11 70434  
## + FLAG.Job.Sales 1 7.9849e+06 1.0041e+11 70435  
## + M\_YOJ 1 6.5294e+06 1.0041e+11 70435  
## + FLAG.Job.Mgr 1 4.5355e+06 1.0041e+11 70435  
## + M\_DEROG 1 3.4493e+06 1.0041e+11 70435  
## + IMP\_YOJ 1 1.7237e+06 1.0041e+11 70435  
## + IMP\_CLAGE 1 5.5254e+05 1.0042e+11 70435  
##   
## Step: AIC=69768.45  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN  
##   
## Df Sum of Sq RSS AIC  
## + IMP\_DELINQ 1 3685676079 8.1801e+10 69588  
## + IMP\_CLNO 1 2871002462 8.2616e+10 69629  
## + M\_DEBTINC 1 1510399285 8.3977e+10 69697  
## + FLAG.Reason.HomeImp 1 698460708 8.4789e+10 69736  
## + IMP\_MORTDUE 1 657001885 8.4830e+10 69738  
## + IMP\_DEBTINC 1 612429542 8.4875e+10 69741  
## + IMP\_VALUE 1 598322989 8.4889e+10 69741  
## + FLAG.Reason.DebtCon 1 443625629 8.5043e+10 69749  
## + IMP\_DEROG 1 336898272 8.5150e+10 69754  
## + FLAG.Job.Self 1 313308904 8.5174e+10 69755  
## + IMP\_NINQ 1 221391135 8.5266e+10 69760  
## + M\_VALUE 1 143541341 8.5344e+10 69763  
## + M\_MORTDUE 1 118484915 8.5369e+10 69765  
## + FLAG.Job.Other 1 116877560 8.5370e+10 69765  
## + IMP\_YOJ 1 100191935 8.5387e+10 69766  
## + IMP\_CLAGE 1 84296020 8.5403e+10 69766  
## + FLAG.Job.Sales 1 79545503 8.5408e+10 69767  
## + M\_YOJ 1 53731807 8.5433e+10 69768  
## + M\_CLAGE 1 52230952 8.5435e+10 69768  
## + M\_DEROG 1 49998871 8.5437e+10 69768  
## <none> 8.5487e+10 69768  
## + FLAG.Job.Office 1 5819424 8.5481e+10 69770  
## + FLAG.Job.ProfExe 1 2267388 8.5485e+10 69770  
## + M\_DELINQ 1 1954765 8.5485e+10 69770  
## + M\_CLNO 1 1857931 8.5485e+10 69770  
## + FLAG.Job.Mgr 1 960353 8.5486e+10 69770  
## + M\_NINQ 1 72342 8.5487e+10 69770  
##   
## Step: AIC=69587.91  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ  
##   
## Df Sum of Sq RSS AIC  
## + IMP\_CLNO 1 1971452923 7.9830e+10 69489  
## + M\_DEBTINC 1 1346021323 8.0455e+10 69521  
## + IMP\_VALUE 1 665440899 8.1136e+10 69556  
## + IMP\_DEBTINC 1 663363080 8.1138e+10 69556  
## + FLAG.Reason.HomeImp 1 631819974 8.1170e+10 69558  
## + IMP\_MORTDUE 1 629413603 8.1172e+10 69558  
## + FLAG.Reason.DebtCon 1 489343809 8.1312e+10 69565  
## + FLAG.Job.Self 1 287549511 8.1514e+10 69575  
## + IMP\_NINQ 1 214856278 8.1587e+10 69579  
## + IMP\_YOJ 1 208974801 8.1592e+10 69579  
## + IMP\_CLAGE 1 206986005 8.1594e+10 69579  
## + FLAG.Job.Sales 1 159250118 8.1642e+10 69582  
## + M\_DELINQ 1 147900575 8.1653e+10 69582  
## + M\_MORTDUE 1 138582889 8.1663e+10 69583  
## + M\_CLAGE 1 98327497 8.1703e+10 69585  
## + M\_DEROG 1 91870759 8.1710e+10 69585  
## + M\_NINQ 1 89623393 8.1712e+10 69585  
## + FLAG.Job.Other 1 79797248 8.1722e+10 69586  
## + M\_YOJ 1 73298105 8.1728e+10 69586  
## + IMP\_DEROG 1 63834127 8.1738e+10 69587  
## + M\_VALUE 1 44602816 8.1757e+10 69588  
## <none> 8.1801e+10 69588  
## + M\_CLNO 1 15571984 8.1786e+10 69589  
## + FLAG.Job.Office 1 11419263 8.1790e+10 69589  
## + FLAG.Job.ProfExe 1 9028123 8.1792e+10 69589  
## + FLAG.Job.Mgr 1 6022401 8.1795e+10 69590  
##   
## Step: AIC=69488.86  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO  
##   
## Df Sum of Sq RSS AIC  
## + M\_DEBTINC 1 1314269343 7.8516e+10 69422  
## + IMP\_CLAGE 1 631551977 7.9198e+10 69458  
## + FLAG.Reason.HomeImp 1 444674925 7.9385e+10 69468  
## + IMP\_DEBTINC 1 370688063 7.9459e+10 69472  
## + FLAG.Reason.DebtCon 1 300159688 7.9530e+10 69475  
## + FLAG.Job.Self 1 272915893 7.9557e+10 69477  
## + IMP\_YOJ 1 243961126 7.9586e+10 69478  
## + IMP\_VALUE 1 207012750 7.9623e+10 69480  
## + IMP\_MORTDUE 1 129159594 7.9701e+10 69484  
## + M\_DEROG 1 117402092 7.9713e+10 69485  
## + FLAG.Job.Sales 1 111613787 7.9718e+10 69485  
## + IMP\_NINQ 1 110642705 7.9719e+10 69485  
## + M\_DELINQ 1 100672926 7.9729e+10 69486  
## + M\_VALUE 1 62048404 7.9768e+10 69488  
## + M\_NINQ 1 51313552 7.9779e+10 69488  
## <none> 7.9830e+10 69489  
## + IMP\_DEROG 1 29725067 7.9800e+10 69489  
## + FLAG.Job.ProfExe 1 24932871 7.9805e+10 69490  
## + FLAG.Job.Mgr 1 19707803 7.9810e+10 69490  
## + M\_CLAGE 1 15711294 7.9814e+10 69490  
## + M\_YOJ 1 10875253 7.9819e+10 69490  
## + FLAG.Job.Other 1 7985583 7.9822e+10 69490  
## + FLAG.Job.Office 1 6072136 7.9824e+10 69491  
## + M\_CLNO 1 5861930 7.9824e+10 69491  
## + M\_MORTDUE 1 2076342 7.9828e+10 69491  
##   
## Step: AIC=69422.1  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC  
##   
## Df Sum of Sq RSS AIC  
## + IMP\_CLAGE 1 608553121 7.7907e+10 69392  
## + FLAG.Reason.HomeImp 1 437233426 7.8078e+10 69401  
## + IMP\_DEBTINC 1 413913446 7.8102e+10 69402  
## + FLAG.Reason.DebtCon 1 292262695 7.8223e+10 69409  
## + IMP\_YOJ 1 276435044 7.8239e+10 69409  
## + FLAG.Job.Self 1 268894631 7.8247e+10 69410  
## + IMP\_VALUE 1 237644721 7.8278e+10 69412  
## + IMP\_MORTDUE 1 164577782 7.8351e+10 69415  
## + FLAG.Job.Sales 1 113467133 7.8402e+10 69418  
## + M\_DEROG 1 109832285 7.8406e+10 69418  
## + M\_DELINQ 1 92861625 7.8423e+10 69419  
## + IMP\_NINQ 1 62206148 7.8453e+10 69421  
## + M\_NINQ 1 43965265 7.8472e+10 69422  
## + M\_VALUE 1 40637628 7.8475e+10 69422  
## <none> 7.8516e+10 69422  
## + FLAG.Job.ProfExe 1 29583553 7.8486e+10 69423  
## + IMP\_DEROG 1 21416138 7.8494e+10 69423  
## + FLAG.Job.Mgr 1 17669861 7.8498e+10 69423  
## + M\_CLAGE 1 16260622 7.8499e+10 69423  
## + M\_YOJ 1 10149828 7.8506e+10 69424  
## + FLAG.Job.Other 1 7484453 7.8508e+10 69424  
## + M\_CLNO 1 5880590 7.8510e+10 69424  
## + FLAG.Job.Office 1 4666111 7.8511e+10 69424  
## + M\_MORTDUE 1 3280565 7.8512e+10 69424  
##   
## Step: AIC=69391.87  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC + IMP\_CLAGE  
##   
## Df Sum of Sq RSS AIC  
## + IMP\_DEBTINC 1 358866553 7.7548e+10 69375  
## + FLAG.Reason.HomeImp 1 344143531 7.7563e+10 69376  
## + IMP\_VALUE 1 316399374 7.7591e+10 69377  
## + FLAG.Job.Self 1 242241993 7.7665e+10 69381  
## + FLAG.Reason.DebtCon 1 203047378 7.7704e+10 69383  
## + IMP\_MORTDUE 1 187499667 7.7720e+10 69384  
## + IMP\_YOJ 1 161830757 7.7745e+10 69385  
## + FLAG.Job.Sales 1 126997223 7.7780e+10 69387  
## + M\_DELINQ 1 108757439 7.7798e+10 69388  
## + M\_DEROG 1 106685890 7.7800e+10 69388  
## + M\_NINQ 1 51703361 7.7855e+10 69391  
## + M\_VALUE 1 44961885 7.7862e+10 69391  
## <none> 7.7907e+10 69392  
## + IMP\_NINQ 1 26298378 7.7881e+10 69392  
## + FLAG.Job.Mgr 1 24423623 7.7883e+10 69393  
## + FLAG.Job.ProfExe 1 14918150 7.7892e+10 69393  
## + M\_CLAGE 1 12331215 7.7895e+10 69393  
## + IMP\_DEROG 1 11715673 7.7895e+10 69393  
## + FLAG.Job.Other 1 7888613 7.7899e+10 69393  
## + M\_CLNO 1 6420202 7.7901e+10 69394  
## + FLAG.Job.Office 1 5646884 7.7901e+10 69394  
## + M\_YOJ 1 817215 7.7906e+10 69394  
## + M\_MORTDUE 1 553 7.7907e+10 69394  
##   
## Step: AIC=69374.75  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC + IMP\_CLAGE + IMP\_DEBTINC  
##   
## Df Sum of Sq RSS AIC  
## + FLAG.Reason.HomeImp 1 340643054 7.7208e+10 69359  
## + IMP\_VALUE 1 282421414 7.7266e+10 69362  
## + FLAG.Job.Self 1 238956049 7.7309e+10 69364  
## + FLAG.Reason.DebtCon 1 183925711 7.7364e+10 69367  
## + IMP\_MORTDUE 1 151905857 7.7396e+10 69369  
## + IMP\_YOJ 1 142246100 7.7406e+10 69369  
## + M\_DEROG 1 121081639 7.7427e+10 69370  
## + M\_DELINQ 1 105652636 7.7443e+10 69371  
## + FLAG.Job.Sales 1 104719198 7.7444e+10 69371  
## + M\_VALUE 1 60965971 7.7487e+10 69373  
## <none> 7.7548e+10 69375  
## + M\_NINQ 1 32308919 7.7516e+10 69375  
## + FLAG.Job.Mgr 1 31934943 7.7516e+10 69375  
## + FLAG.Job.Other 1 15870411 7.7532e+10 69376  
## + IMP\_NINQ 1 15505304 7.7533e+10 69376  
## + IMP\_DEROG 1 14839189 7.7533e+10 69376  
## + FLAG.Job.Office 1 8533059 7.7540e+10 69376  
## + M\_MORTDUE 1 5890638 7.7542e+10 69376  
## + FLAG.Job.ProfExe 1 4443292 7.7544e+10 69377  
## + M\_CLAGE 1 3194632 7.7545e+10 69377  
## + M\_CLNO 1 2212929 7.7546e+10 69377  
## + M\_YOJ 1 1615787 7.7547e+10 69377  
##   
## Step: AIC=69358.52  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC + IMP\_CLAGE + IMP\_DEBTINC + FLAG.Reason.HomeImp  
##   
## Df Sum of Sq RSS AIC  
## + FLAG.Job.Self 1 342206598 7.6865e+10 69342  
## + IMP\_VALUE 1 321410846 7.6886e+10 69343  
## + IMP\_MORTDUE 1 161506107 7.7046e+10 69352  
## + M\_DEROG 1 143994968 7.7064e+10 69353  
## + IMP\_YOJ 1 115512903 7.7092e+10 69354  
## + M\_DELINQ 1 114882244 7.7093e+10 69354  
## + FLAG.Job.Sales 1 80012648 7.7128e+10 69356  
## + M\_VALUE 1 61756213 7.7146e+10 69357  
## + FLAG.Reason.DebtCon 1 54581761 7.7153e+10 69358  
## + FLAG.Job.Mgr 1 44306559 7.7163e+10 69358  
## <none> 7.7208e+10 69359  
## + M\_NINQ 1 32213477 7.7175e+10 69359  
## + M\_MORTDUE 1 20705477 7.7187e+10 69359  
## + FLAG.Job.Other 1 20344205 7.7187e+10 69359  
## + IMP\_DEROG 1 12860514 7.7195e+10 69360  
## + M\_CLAGE 1 6654063 7.7201e+10 69360  
## + FLAG.Job.Office 1 5466670 7.7202e+10 69360  
## + IMP\_NINQ 1 4503415 7.7203e+10 69360  
## + M\_YOJ 1 3445553 7.7204e+10 69360  
## + M\_CLNO 1 3411925 7.7204e+10 69360  
## + FLAG.Job.ProfExe 1 1994323 7.7206e+10 69360  
##   
## Step: AIC=69342.12  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC + IMP\_CLAGE + IMP\_DEBTINC + FLAG.Reason.HomeImp +   
## FLAG.Job.Self  
##   
## Df Sum of Sq RSS AIC  
## + IMP\_VALUE 1 244906089 7.6620e+10 69331  
## + M\_DEROG 1 132051022 7.6733e+10 69337  
## + IMP\_MORTDUE 1 120451279 7.6745e+10 69338  
## + M\_DELINQ 1 115637390 7.6750e+10 69338  
## + IMP\_YOJ 1 95428510 7.6770e+10 69339  
## + FLAG.Job.Sales 1 82887828 7.6783e+10 69340  
## + M\_VALUE 1 65702932 7.6800e+10 69341  
## + FLAG.Reason.DebtCon 1 49058281 7.6816e+10 69341  
## + M\_NINQ 1 47136566 7.6818e+10 69342  
## <none> 7.6865e+10 69342  
## + FLAG.Job.Mgr 1 28666746 7.6837e+10 69343  
## + M\_MORTDUE 1 24959484 7.6840e+10 69343  
## + IMP\_DEROG 1 16768071 7.6849e+10 69343  
## + M\_CLAGE 1 5958992 7.6859e+10 69344  
## + IMP\_NINQ 1 4494415 7.6861e+10 69344  
## + M\_CLNO 1 3279832 7.6862e+10 69344  
## + FLAG.Job.Other 1 3167984 7.6862e+10 69344  
## + M\_YOJ 1 2000766 7.6863e+10 69344  
## + FLAG.Job.Office 1 695210 7.6865e+10 69344  
## + FLAG.Job.ProfExe 1 364373 7.6865e+10 69344  
##   
## Step: AIC=69330.9  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC + IMP\_CLAGE + IMP\_DEBTINC + FLAG.Reason.HomeImp +   
## FLAG.Job.Self + IMP\_VALUE  
##   
## Df Sum of Sq RSS AIC  
## + M\_DEROG 1 130185263 7.6490e+10 69326  
## + M\_DELINQ 1 100579780 7.6520e+10 69327  
## + IMP\_YOJ 1 83263636 7.6537e+10 69328  
## + FLAG.Job.Sales 1 73793029 7.6547e+10 69329  
## + M\_VALUE 1 71527216 7.6549e+10 69329  
## + M\_MORTDUE 1 52159898 7.6568e+10 69330  
## + FLAG.Reason.DebtCon 1 44986611 7.6576e+10 69330  
## + M\_NINQ 1 42242747 7.6578e+10 69331  
## + FLAG.Job.Mgr 1 38004592 7.6582e+10 69331  
## <none> 7.6620e+10 69331  
## + IMP\_DEROG 1 22182341 7.6598e+10 69332  
## + FLAG.Job.ProfExe 1 12244387 7.6608e+10 69332  
## + M\_CLAGE 1 7322974 7.6613e+10 69333  
## + IMP\_NINQ 1 6805224 7.6614e+10 69333  
## + M\_CLNO 1 3236198 7.6617e+10 69333  
## + FLAG.Job.Other 1 2347833 7.6618e+10 69333  
## + IMP\_MORTDUE 1 612806 7.6620e+10 69333  
## + M\_YOJ 1 8744 7.6620e+10 69333  
## + FLAG.Job.Office 1 354 7.6620e+10 69333  
##   
## Step: AIC=69325.86  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC + IMP\_CLAGE + IMP\_DEBTINC + FLAG.Reason.HomeImp +   
## FLAG.Job.Self + IMP\_VALUE + M\_DEROG  
##   
## Df Sum of Sq RSS AIC  
## + IMP\_YOJ 1 94345702 7.6396e+10 69323  
## + M\_MORTDUE 1 88124861 7.6402e+10 69323  
## + M\_VALUE 1 87088939 7.6403e+10 69323  
## + FLAG.Job.Sales 1 71456009 7.6419e+10 69324  
## + FLAG.Reason.DebtCon 1 71179229 7.6419e+10 69324  
## + IMP\_DEROG 1 68954694 7.6421e+10 69324  
## <none> 7.6490e+10 69326  
## + FLAG.Job.Mgr 1 34456418 7.6456e+10 69326  
## + M\_CLNO 1 24589483 7.6466e+10 69327  
## + FLAG.Job.ProfExe 1 20548853 7.6470e+10 69327  
## + IMP\_NINQ 1 12601823 7.6478e+10 69327  
## + M\_CLAGE 1 7275544 7.6483e+10 69327  
## + M\_DELINQ 1 5131396 7.6485e+10 69328  
## + M\_YOJ 1 5026669 7.6485e+10 69328  
## + FLAG.Job.Other 1 1005351 7.6489e+10 69328  
## + M\_NINQ 1 372820 7.6490e+10 69328  
## + IMP\_MORTDUE 1 197034 7.6490e+10 69328  
## + FLAG.Job.Office 1 10139 7.6490e+10 69328  
##   
## Step: AIC=69322.74  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC + IMP\_CLAGE + IMP\_DEBTINC + FLAG.Reason.HomeImp +   
## FLAG.Job.Self + IMP\_VALUE + M\_DEROG + IMP\_YOJ  
##   
## Df Sum of Sq RSS AIC  
## + M\_VALUE 1 89043594 7.6307e+10 69320  
## + M\_MORTDUE 1 77882691 7.6318e+10 69321  
## + FLAG.Reason.DebtCon 1 73384520 7.6323e+10 69321  
## + FLAG.Job.Sales 1 66819149 7.6329e+10 69321  
## + IMP\_DEROG 1 61052061 7.6335e+10 69321  
## <none> 7.6396e+10 69323  
## + FLAG.Job.Mgr 1 30016076 7.6366e+10 69323  
## + FLAG.Job.ProfExe 1 23583796 7.6372e+10 69323  
## + M\_CLNO 1 22637734 7.6373e+10 69324  
## + M\_DELINQ 1 11008182 7.6385e+10 69324  
## + IMP\_NINQ 1 9979883 7.6386e+10 69324  
## + M\_CLAGE 1 4818930 7.6391e+10 69324  
## + IMP\_MORTDUE 1 3223898 7.6393e+10 69325  
## + FLAG.Job.Other 1 1975270 7.6394e+10 69325  
## + M\_YOJ 1 1904640 7.6394e+10 69325  
## + FLAG.Job.Office 1 186696 7.6396e+10 69325  
## + M\_NINQ 1 1287 7.6396e+10 69325  
##   
## Step: AIC=69319.91  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC + IMP\_CLAGE + IMP\_DEBTINC + FLAG.Reason.HomeImp +   
## FLAG.Job.Self + IMP\_VALUE + M\_DEROG + IMP\_YOJ + M\_VALUE  
##   
## Df Sum of Sq RSS AIC  
## + FLAG.Job.Sales 1 68600482 7.6238e+10 69318  
## + M\_MORTDUE 1 65625566 7.6241e+10 69318  
## + FLAG.Reason.DebtCon 1 61000540 7.6246e+10 69319  
## + IMP\_DEROG 1 60033994 7.6247e+10 69319  
## <none> 7.6307e+10 69320  
## + FLAG.Job.Mgr 1 29565066 7.6277e+10 69320  
## + FLAG.Job.ProfExe 1 24428213 7.6282e+10 69321  
## + M\_CLNO 1 17713092 7.6289e+10 69321  
## + IMP\_NINQ 1 13081836 7.6294e+10 69321  
## + M\_DELINQ 1 11504437 7.6295e+10 69321  
## + IMP\_MORTDUE 1 5909771 7.6301e+10 69322  
## + M\_CLAGE 1 3191176 7.6304e+10 69322  
## + FLAG.Job.Other 1 2808221 7.6304e+10 69322  
## + M\_YOJ 1 1775539 7.6305e+10 69322  
## + FLAG.Job.Office 1 203614 7.6307e+10 69322  
## + M\_NINQ 1 1762 7.6307e+10 69322  
##   
## Step: AIC=69318.19  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC + IMP\_CLAGE + IMP\_DEBTINC + FLAG.Reason.HomeImp +   
## FLAG.Job.Self + IMP\_VALUE + M\_DEROG + IMP\_YOJ + M\_VALUE +   
## FLAG.Job.Sales  
##   
## Df Sum of Sq RSS AIC  
## + FLAG.Reason.DebtCon 1 65083049 7.6173e+10 69317  
## + M\_MORTDUE 1 62659602 7.6176e+10 69317  
## + IMP\_DEROG 1 58604852 7.6180e+10 69317  
## <none> 7.6238e+10 69318  
## + FLAG.Job.Mgr 1 24471816 7.6214e+10 69319  
## + M\_CLNO 1 19107841 7.6219e+10 69319  
## + FLAG.Job.ProfExe 1 17790963 7.6221e+10 69319  
## + IMP\_NINQ 1 17229273 7.6221e+10 69319  
## + M\_DELINQ 1 11759086 7.6227e+10 69320  
## + FLAG.Job.Other 1 7261487 7.6231e+10 69320  
## + IMP\_MORTDUE 1 5726918 7.6233e+10 69320  
## + M\_CLAGE 1 3964646 7.6234e+10 69320  
## + M\_YOJ 1 1360098 7.6237e+10 69320  
## + M\_NINQ 1 54229 7.6238e+10 69320  
## + FLAG.Job.Office 1 9 7.6238e+10 69320  
##   
## Step: AIC=69316.65  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC + IMP\_CLAGE + IMP\_DEBTINC + FLAG.Reason.HomeImp +   
## FLAG.Job.Self + IMP\_VALUE + M\_DEROG + IMP\_YOJ + M\_VALUE +   
## FLAG.Job.Sales + FLAG.Reason.DebtCon  
##   
## Df Sum of Sq RSS AIC  
## + IMP\_DEROG 1 57381088 7.6116e+10 69316  
## + M\_MORTDUE 1 46417747 7.6127e+10 69316  
## <none> 7.6173e+10 69317  
## + FLAG.Job.Mgr 1 22170097 7.6151e+10 69317  
## + M\_DELINQ 1 19340454 7.6154e+10 69318  
## + IMP\_NINQ 1 19289707 7.6154e+10 69318  
## + FLAG.Job.ProfExe 1 13769284 7.6159e+10 69318  
## + FLAG.Job.Other 1 9414541 7.6164e+10 69318  
## + IMP\_MORTDUE 1 4972817 7.6168e+10 69318  
## + M\_CLNO 1 4698938 7.6169e+10 69318  
## + M\_NINQ 1 1134278 7.6172e+10 69319  
## + M\_YOJ 1 282333 7.6173e+10 69319  
## + M\_CLAGE 1 97021 7.6173e+10 69319  
## + FLAG.Job.Office 1 32618 7.6173e+10 69319  
##   
## Step: AIC=69315.53  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC + IMP\_CLAGE + IMP\_DEBTINC + FLAG.Reason.HomeImp +   
## FLAG.Job.Self + IMP\_VALUE + M\_DEROG + IMP\_YOJ + M\_VALUE +   
## FLAG.Job.Sales + FLAG.Reason.DebtCon + IMP\_DEROG  
##   
## Df Sum of Sq RSS AIC  
## + M\_MORTDUE 1 44086715 7.6072e+10 69315  
## <none> 7.6116e+10 69316  
## + M\_DELINQ 1 26331932 7.6090e+10 69316  
## + FLAG.Job.Mgr 1 23965044 7.6092e+10 69316  
## + IMP\_NINQ 1 13296030 7.6103e+10 69317  
## + FLAG.Job.ProfExe 1 11084915 7.6105e+10 69317  
## + FLAG.Job.Other 1 7753647 7.6108e+10 69317  
## + M\_CLNO 1 5122837 7.6111e+10 69317  
## + IMP\_MORTDUE 1 3894315 7.6112e+10 69317  
## + M\_NINQ 1 2737789 7.6113e+10 69317  
## + M\_YOJ 1 986884 7.6115e+10 69317  
## + FLAG.Job.Office 1 164072 7.6116e+10 69318  
## + M\_CLAGE 1 132234 7.6116e+10 69318  
##   
## Step: AIC=69315.13  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_DELINQ + IMP\_CLNO +   
## M\_DEBTINC + IMP\_CLAGE + IMP\_DEBTINC + FLAG.Reason.HomeImp +   
## FLAG.Job.Self + IMP\_VALUE + M\_DEROG + IMP\_YOJ + M\_VALUE +   
## FLAG.Job.Sales + FLAG.Reason.DebtCon + IMP\_DEROG + M\_MORTDUE  
##   
## Df Sum of Sq RSS AIC  
## <none> 7.6072e+10 69315  
## + M\_DELINQ 1 35717002 7.6036e+10 69315  
## + FLAG.Job.Mgr 1 21655226 7.6050e+10 69316  
## + IMP\_NINQ 1 13664643 7.6058e+10 69316  
## + IMP\_MORTDUE 1 10521753 7.6061e+10 69317  
## + FLAG.Job.ProfExe 1 8509234 7.6063e+10 69317  
## + M\_NINQ 1 6234946 7.6066e+10 69317  
## + M\_YOJ 1 5704210 7.6066e+10 69317  
## + FLAG.Job.Other 1 5361326 7.6066e+10 69317  
## + M\_CLNO 1 4326310 7.6067e+10 69317  
## + M\_CLAGE 1 482535 7.6071e+10 69317  
## + FLAG.Job.Office 1 416534 7.6071e+10 69317

summary( lr\_model )

##   
## Call:  
## glm(formula = TARGET\_BAD\_FLAG ~ LOAN + IMP\_MORTDUE + M\_MORTDUE +   
## IMP\_VALUE + M\_VALUE + IMP\_YOJ + M\_YOJ + IMP\_DEROG + M\_DEROG +   
## IMP\_DELINQ + M\_DELINQ + IMP\_CLAGE + M\_CLAGE + IMP\_NINQ +   
## M\_NINQ + IMP\_CLNO + M\_CLNO + IMP\_DEBTINC + M\_DEBTINC + FLAG.Job.Mgr +   
## FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe + FLAG.Job.Sales +   
## FLAG.Job.Self + FLAG.Reason.DebtCon + FLAG.Reason.HomeImp,   
## family = "binomial", data = df\_train)  
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -6.817e+00 6.558e-01 -10.395 < 2e-16 \*\*\*  
## LOAN -8.996e-06 5.694e-06 -1.580 0.114122   
## IMP\_MORTDUE -3.482e-06 2.092e-06 -1.664 0.096053 .   
## M\_MORTDUE 3.647e-01 2.491e-01 1.464 0.143231   
## IMP\_VALUE 4.356e-06 1.495e-06 2.914 0.003572 \*\*   
## M\_VALUE 4.945e+00 6.167e-01 8.017 1.08e-15 \*\*\*  
## IMP\_YOJ -2.010e-02 8.271e-03 -2.430 0.015103 \*   
## M\_YOJ -7.720e-01 2.427e-01 -3.181 0.001466 \*\*   
## IMP\_DEROG 5.869e-01 7.617e-02 7.706 1.30e-14 \*\*\*  
## M\_DEROG -2.655e+00 3.603e-01 -7.367 1.74e-13 \*\*\*  
## IMP\_DELINQ 8.182e-01 6.264e-02 13.062 < 2e-16 \*\*\*  
## M\_DELINQ -1.101e+00 4.859e-01 -2.266 0.023465 \*   
## IMP\_CLAGE -5.466e-03 8.103e-04 -6.746 1.52e-11 \*\*\*  
## M\_CLAGE 9.834e-01 4.403e-01 2.233 0.025529 \*   
## IMP\_NINQ 1.528e-01 3.175e-02 4.813 1.48e-06 \*\*\*  
## M\_NINQ -2.494e-01 4.538e-01 -0.550 0.582542   
## IMP\_CLNO -1.600e-02 6.331e-03 -2.527 0.011513 \*   
## M\_CLNO 2.693e+00 7.552e-01 3.565 0.000363 \*\*\*  
## IMP\_DEBTINC 9.231e-02 1.017e-02 9.075 < 2e-16 \*\*\*  
## M\_DEBTINC 2.679e+00 1.144e-01 23.425 < 2e-16 \*\*\*  
## FLAG.Job.Mgr 2.091e+00 4.989e-01 4.191 2.77e-05 \*\*\*  
## FLAG.Job.Office 1.414e+00 5.005e-01 2.824 0.004736 \*\*   
## FLAG.Job.Other 2.081e+00 4.825e-01 4.314 1.60e-05 \*\*\*  
## FLAG.Job.ProfExe 1.972e+00 4.965e-01 3.971 7.16e-05 \*\*\*  
## FLAG.Job.Sales 3.240e+00 5.794e-01 5.592 2.24e-08 \*\*\*  
## FLAG.Job.Self 2.518e+00 5.650e-01 4.456 8.34e-06 \*\*\*  
## FLAG.Reason.DebtCon -1.318e-01 3.661e-01 -0.360 0.718960   
## FLAG.Reason.HomeImp -5.659e-02 3.728e-01 -0.152 0.879329   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 4155.3 on 4141 degrees of freedom  
## Residual deviance: 2248.2 on 4114 degrees of freedom  
## AIC: 2304.2  
##   
## Number of Fisher Scoring iterations: 6

plrf = predict( lrf\_model, df\_test )  
head( plr )

## 4 6 7 15 17 18   
## 0.9732766 0.1167694 0.9808605 0.7202890 0.9981836 0.1588877

RMSElrf = sqrt( mean( ( df\_test$TARGET\_LOSS\_AMT - plrf )^2 ) )

#Linear regression model with backward variable selection

theUpper\_LR = lm( TARGET\_LOSS\_AMT ~ ., data=df\_train )  
theLower\_LR = lm( TARGET\_LOSS\_AMT ~ 1, data=df\_train )  
  
summary( theUpper\_LR )

##   
## Call:  
## lm(formula = TARGET\_LOSS\_AMT ~ ., data = df\_train)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -22532 -1612 122 1526 53770   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -4.383e+03 5.806e+02 -7.549 5.38e-14 \*\*\*  
## TARGET\_BAD\_FLAG 1.165e+04 2.238e+02 52.031 < 2e-16 \*\*\*  
## LOAN 1.516e-01 6.637e-03 22.837 < 2e-16 \*\*\*  
## IMP\_MORTDUE -1.450e-03 2.681e-03 -0.541 0.58876   
## M\_MORTDUE 4.727e+02 2.789e+02 1.695 0.09013 .   
## IMP\_VALUE 6.187e-03 2.047e-03 3.022 0.00253 \*\*   
## M\_VALUE 9.512e+02 5.038e+02 1.888 0.05909 .   
## IMP\_YOJ -2.223e+01 9.733e+00 -2.284 0.02240 \*   
## M\_YOJ -1.665e+02 2.696e+02 -0.618 0.53685   
## IMP\_DEROG 1.593e+02 9.011e+01 1.768 0.07721 .   
## M\_DEROG -6.060e+02 3.405e+02 -1.780 0.07517 .   
## IMP\_DELINQ 8.544e+02 6.792e+01 12.579 < 2e-16 \*\*\*  
## M\_DELINQ -5.680e+02 4.313e+02 -1.317 0.18801   
## IMP\_CLAGE -3.957e+00 8.612e-01 -4.595 4.46e-06 \*\*\*  
## M\_CLAGE -7.427e+02 6.306e+02 -1.178 0.23894   
## IMP\_NINQ 3.711e+01 4.343e+01 0.854 0.39290   
## M\_NINQ -4.934e+01 4.089e+02 -0.121 0.90396   
## IMP\_CLNO 6.420e+01 7.814e+00 8.216 2.80e-16 \*\*\*  
## M\_CLNO 9.703e+02 8.090e+02 1.199 0.23045   
## IMP\_DEBTINC 3.953e+01 8.991e+00 4.397 1.12e-05 \*\*\*  
## M\_DEBTINC 1.634e+03 1.962e+02 8.330 < 2e-16 \*\*\*  
## FLAG.Job.Mgr -8.142e+02 4.260e+02 -1.911 0.05603 .   
## FLAG.Job.Office -6.088e+02 4.200e+02 -1.449 0.14734   
## FLAG.Job.Other -5.605e+02 3.964e+02 -1.414 0.15746   
## FLAG.Job.ProfExe -7.224e+02 4.157e+02 -1.738 0.08232 .   
## FLAG.Job.Sales 3.507e+02 6.345e+02 0.553 0.58045   
## FLAG.Job.Self 7.772e+02 5.446e+02 1.427 0.15361   
## FLAG.Reason.DebtCon -4.410e+02 3.756e+02 -1.174 0.24043   
## FLAG.Reason.HomeImp -1.169e+03 3.817e+02 -3.062 0.00221 \*\*   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 4296 on 4113 degrees of freedom  
## Multiple R-squared: 0.6595, Adjusted R-squared: 0.6572   
## F-statistic: 284.5 on 28 and 4113 DF, p-value: < 2.2e-16

summary( theLower\_LR )

##   
## Call:  
## lm(formula = TARGET\_LOSS\_AMT ~ 1, data = df\_train)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -2726 -2726 -2726 -2726 76261   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2726 114 23.92 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 7337 on 4141 degrees of freedom

lr\_model = stepAIC(theUpper\_LR, direction="backward", scope=list(lower=theLower\_LR, upper=theUpper\_LR))

## Start: AIC=69327.35  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_MORTDUE + M\_MORTDUE +   
## IMP\_VALUE + M\_VALUE + IMP\_YOJ + M\_YOJ + IMP\_DEROG + M\_DEROG +   
## IMP\_DELINQ + M\_DELINQ + IMP\_CLAGE + M\_CLAGE + IMP\_NINQ +   
## M\_NINQ + IMP\_CLNO + M\_CLNO + IMP\_DEBTINC + M\_DEBTINC + FLAG.Job.Mgr +   
## FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe + FLAG.Job.Sales +   
## FLAG.Job.Self + FLAG.Reason.DebtCon + FLAG.Reason.HomeImp  
##   
## Df Sum of Sq RSS AIC  
## - M\_NINQ 1 2.6867e+05 7.5893e+10 69325  
## - IMP\_MORTDUE 1 5.3940e+06 7.5898e+10 69326  
## - FLAG.Job.Sales 1 5.6380e+06 7.5898e+10 69326  
## - M\_YOJ 1 7.0388e+06 7.5899e+10 69326  
## - IMP\_NINQ 1 1.3472e+07 7.5906e+10 69326  
## - FLAG.Reason.DebtCon 1 2.5436e+07 7.5918e+10 69327  
## - M\_CLAGE 1 2.5597e+07 7.5918e+10 69327  
## - M\_CLNO 1 2.6543e+07 7.5919e+10 69327  
## - M\_DELINQ 1 3.1991e+07 7.5924e+10 69327  
## <none> 7.5892e+10 69327  
## - FLAG.Job.Other 1 3.6889e+07 7.5929e+10 69327  
## - FLAG.Job.Self 1 3.7583e+07 7.5930e+10 69327  
## - FLAG.Job.Office 1 3.8755e+07 7.5931e+10 69327  
## - M\_MORTDUE 1 5.3018e+07 7.5945e+10 69328  
## - FLAG.Job.ProfExe 1 5.5725e+07 7.5948e+10 69328  
## - IMP\_DEROG 1 5.7648e+07 7.5950e+10 69328  
## - M\_DEROG 1 5.8453e+07 7.5951e+10 69329  
## - M\_VALUE 1 6.5775e+07 7.5958e+10 69329  
## - FLAG.Job.Mgr 1 6.7410e+07 7.5960e+10 69329  
## - IMP\_YOJ 1 9.6291e+07 7.5989e+10 69331  
## - IMP\_VALUE 1 1.6850e+08 7.6061e+10 69335  
## - FLAG.Reason.HomeImp 1 1.7299e+08 7.6065e+10 69335  
## - IMP\_DEBTINC 1 3.5676e+08 7.6249e+10 69345  
## - IMP\_CLAGE 1 3.8957e+08 7.6282e+10 69347  
## - IMP\_CLNO 1 1.2454e+09 7.7138e+10 69393  
## - M\_DEBTINC 1 1.2805e+09 7.7173e+10 69395  
## - IMP\_DELINQ 1 2.9198e+09 7.8812e+10 69482  
## - LOAN 1 9.6232e+09 8.5515e+10 69820  
## - TARGET\_BAD\_FLAG 1 4.9953e+10 1.2585e+11 71420  
##   
## Step: AIC=69325.36  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + IMP\_MORTDUE + M\_MORTDUE +   
## IMP\_VALUE + M\_VALUE + IMP\_YOJ + M\_YOJ + IMP\_DEROG + M\_DEROG +   
## IMP\_DELINQ + M\_DELINQ + IMP\_CLAGE + M\_CLAGE + IMP\_NINQ +   
## IMP\_CLNO + M\_CLNO + IMP\_DEBTINC + M\_DEBTINC + FLAG.Job.Mgr +   
## FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe + FLAG.Job.Sales +   
## FLAG.Job.Self + FLAG.Reason.DebtCon + FLAG.Reason.HomeImp  
##   
## Df Sum of Sq RSS AIC  
## - IMP\_MORTDUE 1 5.3873e+06 7.5898e+10 69324  
## - FLAG.Job.Sales 1 5.7490e+06 7.5898e+10 69324  
## - M\_YOJ 1 7.3096e+06 7.5900e+10 69324  
## - IMP\_NINQ 1 1.3797e+07 7.5906e+10 69324  
## - FLAG.Reason.DebtCon 1 2.5431e+07 7.5918e+10 69325  
## - M\_CLAGE 1 2.5470e+07 7.5918e+10 69325  
## - M\_CLNO 1 2.6657e+07 7.5919e+10 69325  
## <none> 7.5893e+10 69325  
## - FLAG.Job.Other 1 3.6768e+07 7.5929e+10 69325  
## - FLAG.Job.Self 1 3.7339e+07 7.5930e+10 69325  
## - FLAG.Job.Office 1 3.8625e+07 7.5931e+10 69325  
## - M\_DELINQ 1 4.3696e+07 7.5936e+10 69326  
## - M\_MORTDUE 1 5.2756e+07 7.5945e+10 69326  
## - FLAG.Job.ProfExe 1 5.5578e+07 7.5948e+10 69326  
## - IMP\_DEROG 1 5.7397e+07 7.5950e+10 69326  
## - M\_DEROG 1 5.9267e+07 7.5952e+10 69327  
## - M\_VALUE 1 6.6186e+07 7.5959e+10 69327  
## - FLAG.Job.Mgr 1 6.7246e+07 7.5960e+10 69327  
## - IMP\_YOJ 1 9.6285e+07 7.5989e+10 69329  
## - IMP\_VALUE 1 1.6833e+08 7.6061e+10 69333  
## - FLAG.Reason.HomeImp 1 1.7300e+08 7.6066e+10 69333  
## - IMP\_DEBTINC 1 3.6149e+08 7.6254e+10 69343  
## - IMP\_CLAGE 1 3.8930e+08 7.6282e+10 69345  
## - IMP\_CLNO 1 1.2452e+09 7.7138e+10 69391  
## - M\_DEBTINC 1 1.2811e+09 7.7174e+10 69393  
## - IMP\_DELINQ 1 2.9211e+09 7.8814e+10 69480  
## - LOAN 1 9.6465e+09 8.5539e+10 69819  
## - TARGET\_BAD\_FLAG 1 4.9953e+10 1.2585e+11 71418  
##   
## Step: AIC=69323.65  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + M\_MORTDUE + IMP\_VALUE +   
## M\_VALUE + IMP\_YOJ + M\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ +   
## M\_DELINQ + IMP\_CLAGE + M\_CLAGE + IMP\_NINQ + IMP\_CLNO + M\_CLNO +   
## IMP\_DEBTINC + M\_DEBTINC + FLAG.Job.Mgr + FLAG.Job.Office +   
## FLAG.Job.Other + FLAG.Job.ProfExe + FLAG.Job.Sales + FLAG.Job.Self +   
## FLAG.Reason.DebtCon + FLAG.Reason.HomeImp  
##   
## Df Sum of Sq RSS AIC  
## - FLAG.Job.Sales 1 5.8425e+06 7.5904e+10 69322  
## - M\_YOJ 1 6.7645e+06 7.5905e+10 69322  
## - IMP\_NINQ 1 1.3324e+07 7.5911e+10 69322  
## - FLAG.Reason.DebtCon 1 2.6226e+07 7.5924e+10 69323  
## - M\_CLAGE 1 2.7314e+07 7.5925e+10 69323  
## - M\_CLNO 1 2.8803e+07 7.5927e+10 69323  
## - FLAG.Job.Other 1 3.5965e+07 7.5934e+10 69324  
## <none> 7.5898e+10 69324  
## - FLAG.Job.Self 1 3.7426e+07 7.5935e+10 69324  
## - FLAG.Job.Office 1 3.7984e+07 7.5936e+10 69324  
## - M\_DELINQ 1 4.4378e+07 7.5942e+10 69324  
## - M\_MORTDUE 1 4.8231e+07 7.5946e+10 69324  
## - FLAG.Job.ProfExe 1 5.6568e+07 7.5955e+10 69325  
## - IMP\_DEROG 1 5.8934e+07 7.5957e+10 69325  
## - M\_DEROG 1 5.9478e+07 7.5957e+10 69325  
## - M\_VALUE 1 6.4251e+07 7.5962e+10 69325  
## - FLAG.Job.Mgr 1 6.8355e+07 7.5966e+10 69325  
## - IMP\_YOJ 1 9.2080e+07 7.5990e+10 69327  
## - FLAG.Reason.HomeImp 1 1.7375e+08 7.6072e+10 69331  
## - IMP\_VALUE 1 2.6965e+08 7.6168e+10 69336  
## - IMP\_DEBTINC 1 3.5653e+08 7.6254e+10 69341  
## - IMP\_CLAGE 1 3.8677e+08 7.6285e+10 69343  
## - IMP\_CLNO 1 1.2659e+09 7.7164e+10 69390  
## - M\_DEBTINC 1 1.2877e+09 7.7186e+10 69391  
## - IMP\_DELINQ 1 2.9181e+09 7.8816e+10 69478  
## - LOAN 1 9.7298e+09 8.5628e+10 69821  
## - TARGET\_BAD\_FLAG 1 5.0076e+10 1.2597e+11 71420  
##   
## Step: AIC=69321.97  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + M\_MORTDUE + IMP\_VALUE +   
## M\_VALUE + IMP\_YOJ + M\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ +   
## M\_DELINQ + IMP\_CLAGE + M\_CLAGE + IMP\_NINQ + IMP\_CLNO + M\_CLNO +   
## IMP\_DEBTINC + M\_DEBTINC + FLAG.Job.Mgr + FLAG.Job.Office +   
## FLAG.Job.Other + FLAG.Job.ProfExe + FLAG.Job.Self + FLAG.Reason.DebtCon +   
## FLAG.Reason.HomeImp  
##   
## Df Sum of Sq RSS AIC  
## - M\_YOJ 1 6.5945e+06 7.5910e+10 69320  
## - IMP\_NINQ 1 1.2469e+07 7.5916e+10 69321  
## - FLAG.Reason.DebtCon 1 2.3152e+07 7.5927e+10 69321  
## - M\_CLNO 1 2.6686e+07 7.5930e+10 69321  
## - M\_CLAGE 1 2.9842e+07 7.5934e+10 69322  
## - FLAG.Job.Self 1 3.1661e+07 7.5935e+10 69322  
## <none> 7.5904e+10 69322  
## - M\_DELINQ 1 4.2929e+07 7.5947e+10 69322  
## - M\_MORTDUE 1 4.7147e+07 7.5951e+10 69323  
## - IMP\_DEROG 1 5.8624e+07 7.5962e+10 69323  
## - M\_DEROG 1 6.0504e+07 7.5964e+10 69323  
## - M\_VALUE 1 6.3457e+07 7.5967e+10 69323  
## - FLAG.Job.Office 1 8.3510e+07 7.5987e+10 69325  
## - FLAG.Job.Other 1 8.6030e+07 7.5990e+10 69325  
## - IMP\_YOJ 1 9.2854e+07 7.5997e+10 69325  
## - FLAG.Job.ProfExe 1 1.1996e+08 7.6024e+10 69327  
## - FLAG.Job.Mgr 1 1.3448e+08 7.6038e+10 69327  
## - FLAG.Reason.HomeImp 1 1.6845e+08 7.6072e+10 69329  
## - IMP\_VALUE 1 2.7356e+08 7.6177e+10 69335  
## - IMP\_DEBTINC 1 3.6622e+08 7.6270e+10 69340  
## - IMP\_CLAGE 1 3.8214e+08 7.6286e+10 69341  
## - IMP\_CLNO 1 1.2720e+09 7.7176e+10 69389  
## - M\_DEBTINC 1 1.2885e+09 7.7192e+10 69390  
## - IMP\_DELINQ 1 2.9125e+09 7.8816e+10 69476  
## - LOAN 1 9.7472e+09 8.5651e+10 69820  
## - TARGET\_BAD\_FLAG 1 5.0610e+10 1.2651e+11 71436  
##   
## Step: AIC=69320.33  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + M\_MORTDUE + IMP\_VALUE +   
## M\_VALUE + IMP\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ + M\_DELINQ +   
## IMP\_CLAGE + M\_CLAGE + IMP\_NINQ + IMP\_CLNO + M\_CLNO + IMP\_DEBTINC +   
## M\_DEBTINC + FLAG.Job.Mgr + FLAG.Job.Office + FLAG.Job.Other +   
## FLAG.Job.ProfExe + FLAG.Job.Self + FLAG.Reason.DebtCon +   
## FLAG.Reason.HomeImp  
##   
## Df Sum of Sq RSS AIC  
## - IMP\_NINQ 1 1.3633e+07 7.5924e+10 69319  
## - FLAG.Reason.DebtCon 1 2.0460e+07 7.5931e+10 69319  
## - M\_CLNO 1 2.4500e+07 7.5935e+10 69320  
## - M\_CLAGE 1 2.9623e+07 7.5940e+10 69320  
## - FLAG.Job.Self 1 3.2512e+07 7.5943e+10 69320  
## <none> 7.5910e+10 69320  
## - M\_MORTDUE 1 4.2380e+07 7.5953e+10 69321  
## - M\_DELINQ 1 4.5618e+07 7.5956e+10 69321  
## - IMP\_DEROG 1 5.6734e+07 7.5967e+10 69321  
## - M\_DEROG 1 5.9646e+07 7.5970e+10 69322  
## - M\_VALUE 1 6.4821e+07 7.5975e+10 69322  
## - FLAG.Job.Office 1 8.1653e+07 7.5992e+10 69323  
## - FLAG.Job.Other 1 8.7183e+07 7.5998e+10 69323  
## - IMP\_YOJ 1 8.9511e+07 7.6000e+10 69323  
## - FLAG.Job.ProfExe 1 1.1768e+08 7.6028e+10 69325  
## - FLAG.Job.Mgr 1 1.3299e+08 7.6043e+10 69326  
## - FLAG.Reason.HomeImp 1 1.6262e+08 7.6073e+10 69327  
## - IMP\_VALUE 1 2.7673e+08 7.6187e+10 69333  
## - IMP\_DEBTINC 1 3.6160e+08 7.6272e+10 69338  
## - IMP\_CLAGE 1 3.9684e+08 7.6307e+10 69340  
## - IMP\_CLNO 1 1.2870e+09 7.7197e+10 69388  
## - M\_DEBTINC 1 1.2875e+09 7.7198e+10 69388  
## - IMP\_DELINQ 1 2.9175e+09 7.8828e+10 69475  
## - LOAN 1 9.7744e+09 8.5685e+10 69820  
## - TARGET\_BAD\_FLAG 1 5.0813e+10 1.2672e+11 71441  
##   
## Step: AIC=69319.08  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + M\_MORTDUE + IMP\_VALUE +   
## M\_VALUE + IMP\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ + M\_DELINQ +   
## IMP\_CLAGE + M\_CLAGE + IMP\_CLNO + M\_CLNO + IMP\_DEBTINC + M\_DEBTINC +   
## FLAG.Job.Mgr + FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe +   
## FLAG.Job.Self + FLAG.Reason.DebtCon + FLAG.Reason.HomeImp  
##   
## Df Sum of Sq RSS AIC  
## - FLAG.Reason.DebtCon 1 2.0202e+07 7.5944e+10 69318  
## - M\_CLNO 1 2.2833e+07 7.5947e+10 69318  
## - M\_CLAGE 1 2.8285e+07 7.5952e+10 69319  
## - FLAG.Job.Self 1 3.3751e+07 7.5958e+10 69319  
## <none> 7.5924e+10 69319  
## - M\_MORTDUE 1 4.1878e+07 7.5966e+10 69319  
## - M\_DELINQ 1 4.6240e+07 7.5970e+10 69320  
## - M\_DEROG 1 5.6156e+07 7.5980e+10 69320  
## - M\_VALUE 1 6.2495e+07 7.5987e+10 69320  
## - IMP\_DEROG 1 6.2759e+07 7.5987e+10 69320  
## - FLAG.Job.Office 1 8.0967e+07 7.6005e+10 69321  
## - FLAG.Job.Other 1 8.3580e+07 7.6008e+10 69322  
## - IMP\_YOJ 1 9.2672e+07 7.6017e+10 69322  
## - FLAG.Job.ProfExe 1 1.1631e+08 7.6040e+10 69323  
## - FLAG.Job.Mgr 1 1.2925e+08 7.6053e+10 69324  
## - FLAG.Reason.HomeImp 1 1.6536e+08 7.6089e+10 69326  
## - IMP\_VALUE 1 2.7465e+08 7.6199e+10 69332  
## - IMP\_DEBTINC 1 3.6922e+08 7.6293e+10 69337  
## - IMP\_CLAGE 1 4.1284e+08 7.6337e+10 69340  
## - M\_DEBTINC 1 1.3155e+09 7.7240e+10 69388  
## - IMP\_CLNO 1 1.3246e+09 7.7249e+10 69389  
## - IMP\_DELINQ 1 2.9066e+09 7.8831e+10 69473  
## - LOAN 1 9.8493e+09 8.5773e+10 69822  
## - TARGET\_BAD\_FLAG 1 5.1266e+10 1.2719e+11 71454  
##   
## Step: AIC=69318.18  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + M\_MORTDUE + IMP\_VALUE +   
## M\_VALUE + IMP\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ + M\_DELINQ +   
## IMP\_CLAGE + M\_CLAGE + IMP\_CLNO + M\_CLNO + IMP\_DEBTINC + M\_DEBTINC +   
## FLAG.Job.Mgr + FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe +   
## FLAG.Job.Self + FLAG.Reason.HomeImp  
##   
## Df Sum of Sq RSS AIC  
## - M\_CLAGE 1 2.5049e+07 7.5969e+10 69318  
## - M\_CLNO 1 2.6277e+07 7.5971e+10 69318  
## - FLAG.Job.Self 1 3.0159e+07 7.5974e+10 69318  
## <none> 7.5944e+10 69318  
## - M\_DELINQ 1 4.5291e+07 7.5990e+10 69319  
## - M\_MORTDUE 1 4.9048e+07 7.5993e+10 69319  
## - M\_DEROG 1 5.9359e+07 7.6004e+10 69319  
## - IMP\_DEROG 1 6.2803e+07 7.6007e+10 69320  
## - M\_VALUE 1 6.7008e+07 7.6011e+10 69320  
## - IMP\_YOJ 1 8.9696e+07 7.6034e+10 69321  
## - FLAG.Job.Office 1 9.2470e+07 7.6037e+10 69321  
## - FLAG.Job.Other 1 9.7723e+07 7.6042e+10 69322  
## - FLAG.Job.ProfExe 1 1.3419e+08 7.6078e+10 69323  
## - FLAG.Job.Mgr 1 1.4500e+08 7.6089e+10 69324  
## - IMP\_VALUE 1 2.8163e+08 7.6226e+10 69332  
## - IMP\_DEBTINC 1 3.6413e+08 7.6308e+10 69336  
## - IMP\_CLAGE 1 4.0359e+08 7.6348e+10 69338  
## - FLAG.Reason.HomeImp 1 4.5820e+08 7.6402e+10 69341  
## - M\_DEBTINC 1 1.3126e+09 7.7257e+10 69387  
## - IMP\_CLNO 1 1.3198e+09 7.7264e+10 69388  
## - IMP\_DELINQ 1 2.9576e+09 7.8902e+10 69474  
## - LOAN 1 9.8306e+09 8.5775e+10 69820  
## - TARGET\_BAD\_FLAG 1 5.1247e+10 1.2719e+11 71452  
##   
## Step: AIC=69317.55  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + M\_MORTDUE + IMP\_VALUE +   
## M\_VALUE + IMP\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ + M\_DELINQ +   
## IMP\_CLAGE + IMP\_CLNO + M\_CLNO + IMP\_DEBTINC + M\_DEBTINC +   
## FLAG.Job.Mgr + FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe +   
## FLAG.Job.Self + FLAG.Reason.HomeImp  
##   
## Df Sum of Sq RSS AIC  
## - M\_CLNO 1 3.9267e+06 7.5973e+10 69316  
## - FLAG.Job.Self 1 3.4856e+07 7.6004e+10 69317  
## <none> 7.5969e+10 69318  
## - M\_DELINQ 1 4.2901e+07 7.6012e+10 69318  
## - M\_MORTDUE 1 4.5825e+07 7.6015e+10 69318  
## - M\_DEROG 1 6.0108e+07 7.6029e+10 69319  
## - IMP\_DEROG 1 6.0759e+07 7.6030e+10 69319  
## - M\_VALUE 1 6.8218e+07 7.6037e+10 69319  
## - FLAG.Job.Office 1 8.3363e+07 7.6053e+10 69320  
## - IMP\_YOJ 1 8.4515e+07 7.6054e+10 69320  
## - FLAG.Job.Other 1 8.9100e+07 7.6058e+10 69320  
## - FLAG.Job.ProfExe 1 1.2398e+08 7.6093e+10 69322  
## - FLAG.Job.Mgr 1 1.3540e+08 7.6105e+10 69323  
## - IMP\_VALUE 1 2.7584e+08 7.6245e+10 69331  
## - IMP\_DEBTINC 1 3.8167e+08 7.6351e+10 69336  
## - IMP\_CLAGE 1 4.1499e+08 7.6384e+10 69338  
## - FLAG.Reason.HomeImp 1 4.5036e+08 7.6420e+10 69340  
## - M\_DEBTINC 1 1.3116e+09 7.7281e+10 69386  
## - IMP\_CLNO 1 1.4356e+09 7.7405e+10 69393  
## - IMP\_DELINQ 1 2.9690e+09 7.8938e+10 69474  
## - LOAN 1 9.8224e+09 8.5792e+10 69819  
## - TARGET\_BAD\_FLAG 1 5.1226e+10 1.2720e+11 71450  
##   
## Step: AIC=69315.76  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + M\_MORTDUE + IMP\_VALUE +   
## M\_VALUE + IMP\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ + M\_DELINQ +   
## IMP\_CLAGE + IMP\_CLNO + IMP\_DEBTINC + M\_DEBTINC + FLAG.Job.Mgr +   
## FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe + FLAG.Job.Self +   
## FLAG.Reason.HomeImp  
##   
## Df Sum of Sq RSS AIC  
## - FLAG.Job.Self 1 3.1564e+07 7.6005e+10 69315  
## <none> 7.5973e+10 69316  
## - M\_DELINQ 1 3.9032e+07 7.6012e+10 69316  
## - M\_MORTDUE 1 4.5484e+07 7.6019e+10 69316  
## - M\_DEROG 1 5.6856e+07 7.6030e+10 69317  
## - IMP\_DEROG 1 5.9309e+07 7.6033e+10 69317  
## - M\_VALUE 1 6.9972e+07 7.6043e+10 69318  
## - IMP\_YOJ 1 8.3677e+07 7.6057e+10 69318  
## - FLAG.Job.Office 1 1.0554e+08 7.6079e+10 69320  
## - FLAG.Job.Other 1 1.1528e+08 7.6088e+10 69320  
## - FLAG.Job.ProfExe 1 1.4978e+08 7.6123e+10 69322  
## - FLAG.Job.Mgr 1 1.6381e+08 7.6137e+10 69323  
## - IMP\_VALUE 1 2.7630e+08 7.6250e+10 69329  
## - IMP\_DEBTINC 1 3.7893e+08 7.6352e+10 69334  
## - IMP\_CLAGE 1 4.1476e+08 7.6388e+10 69336  
## - FLAG.Reason.HomeImp 1 4.4838e+08 7.6422e+10 69338  
## - M\_DEBTINC 1 1.3122e+09 7.7285e+10 69385  
## - IMP\_CLNO 1 1.4348e+09 7.7408e+10 69391  
## - IMP\_DELINQ 1 2.9651e+09 7.8938e+10 69472  
## - LOAN 1 9.8346e+09 8.5808e+10 69818  
## - TARGET\_BAD\_FLAG 1 5.1495e+10 1.2747e+11 71457  
##   
## Step: AIC=69315.48  
## TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + M\_MORTDUE + IMP\_VALUE +   
## M\_VALUE + IMP\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ + M\_DELINQ +   
## IMP\_CLAGE + IMP\_CLNO + IMP\_DEBTINC + M\_DEBTINC + FLAG.Job.Mgr +   
## FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe + FLAG.Reason.HomeImp  
##   
## Df Sum of Sq RSS AIC  
## <none> 7.6005e+10 69315  
## - M\_DELINQ 1 3.9581e+07 7.6044e+10 69316  
## - M\_MORTDUE 1 4.0286e+07 7.6045e+10 69316  
## - IMP\_DEROG 1 5.6733e+07 7.6062e+10 69317  
## - M\_DEROG 1 6.3997e+07 7.6069e+10 69317  
## - M\_VALUE 1 6.7688e+07 7.6072e+10 69317  
## - IMP\_YOJ 1 8.6778e+07 7.6092e+10 69318  
## - FLAG.Job.Office 1 2.3195e+08 7.6237e+10 69326  
## - FLAG.Job.Other 1 2.7293e+08 7.6278e+10 69328  
## - IMP\_VALUE 1 2.9796e+08 7.6303e+10 69330  
## - FLAG.Job.Mgr 1 3.2195e+08 7.6327e+10 69331  
## - FLAG.Job.ProfExe 1 3.3105e+08 7.6336e+10 69331  
## - IMP\_DEBTINC 1 3.8450e+08 7.6389e+10 69334  
## - FLAG.Reason.HomeImp 1 4.2070e+08 7.6425e+10 69336  
## - IMP\_CLAGE 1 4.2148e+08 7.6426e+10 69336  
## - M\_DEBTINC 1 1.3153e+09 7.7320e+10 69385  
## - IMP\_CLNO 1 1.4483e+09 7.7453e+10 69392  
## - IMP\_DELINQ 1 3.0128e+09 7.9018e+10 69474  
## - LOAN 1 1.0238e+10 8.6243e+10 69837  
## - TARGET\_BAD\_FLAG 1 5.1553e+10 1.2756e+11 71458

summary( lr\_model )

##   
## Call:  
## lm(formula = TARGET\_LOSS\_AMT ~ TARGET\_BAD\_FLAG + LOAN + M\_MORTDUE +   
## IMP\_VALUE + M\_VALUE + IMP\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ +   
## M\_DELINQ + IMP\_CLAGE + IMP\_CLNO + IMP\_DEBTINC + M\_DEBTINC +   
## FLAG.Job.Mgr + FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe +   
## FLAG.Reason.HomeImp, data = df\_train)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -22274 -1598 138 1557 54185   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -4.528e+03 4.240e+02 -10.681 < 2e-16 \*\*\*  
## TARGET\_BAD\_FLAG 1.169e+04 2.210e+02 52.876 < 2e-16 \*\*\*  
## LOAN 1.522e-01 6.460e-03 23.564 < 2e-16 \*\*\*  
## M\_MORTDUE 3.927e+02 2.657e+02 1.478 0.139449   
## IMP\_VALUE 5.609e-03 1.395e-03 4.020 5.93e-05 \*\*\*  
## M\_VALUE 9.579e+02 5.000e+02 1.916 0.055438 .   
## IMP\_YOJ -2.079e+01 9.581e+00 -2.169 0.030110 \*   
## IMP\_DEROG 1.564e+02 8.915e+01 1.754 0.079489 .   
## M\_DEROG -6.211e+02 3.334e+02 -1.863 0.062533 .   
## IMP\_DELINQ 8.615e+02 6.739e+01 12.783 < 2e-16 \*\*\*  
## M\_DELINQ -5.275e+02 3.600e+02 -1.465 0.142961   
## IMP\_CLAGE -4.052e+00 8.474e-01 -4.781 1.80e-06 \*\*\*  
## IMP\_CLNO 6.609e+01 7.457e+00 8.863 < 2e-16 \*\*\*  
## IMP\_DEBTINC 4.026e+01 8.817e+00 4.566 5.10e-06 \*\*\*  
## M\_DEBTINC 1.651e+03 1.954e+02 8.446 < 2e-16 \*\*\*  
## FLAG.Job.Mgr -1.206e+03 2.887e+02 -4.179 2.99e-05 \*\*\*  
## FLAG.Job.Office -9.894e+02 2.790e+02 -3.547 0.000394 \*\*\*  
## FLAG.Job.Other -9.459e+02 2.459e+02 -3.847 0.000121 \*\*\*  
## FLAG.Job.ProfExe -1.132e+03 2.672e+02 -4.237 2.31e-05 \*\*\*  
## FLAG.Reason.HomeImp -7.208e+02 1.509e+02 -4.777 1.84e-06 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 4294 on 4122 degrees of freedom  
## Multiple R-squared: 0.659, Adjusted R-squared: 0.6574   
## F-statistic: 419.3 on 19 and 4122 DF, p-value: < 2.2e-16

plr = predict( lr\_model, df\_test )  
head( plr )

## 4 6 7 15 17 18   
## 12635.478 7400.119 12043.309 10594.338 15491.993 9189.565

RMSElr = sqrt( mean( ( df\_test$TARGET\_LOSS\_AMT - plr )^2 ) )

#Linear regression modl with decision tree w/ forward stepwise selection

treeVars = tr\_model$variable.importance  
treeVars = names(treeVars)  
treeVarsPlus = paste( treeVars, collapse="+")  
treeVarsPlus

## [1] "TARGET\_BAD\_FLAG+M\_DEBTINC+LOAN+IMP\_DELINQ+M\_VALUE+IMP\_DEBTINC+IMP\_DEROG+IMP\_VALUE+IMP\_MORTDUE+IMP\_CLAGE+FLAG.Reason.HomeImp+FLAG.Job.Self+FLAG.Reason.DebtCon+IMP\_CLNO+IMP\_YOJ+IMP\_NINQ"

F = as.formula( paste( "TARGET\_LOSS\_AMT ~", treeVarsPlus ))  
  
tree\_LR = lm( F, data=df\_train )  
theLower\_LR = lm( TARGET\_LOSS\_AMT ~ 1, data=df\_train )  
  
plr\_tree = predict( tree\_LR, df\_test )  
head( plr\_tree )

## 4 6 7 15 17 18   
## 12764.786 7528.691 11712.782 10559.303 15155.742 9875.683

RMSElr\_tree = sqrt( mean( ( df\_test$TARGET\_LOSS\_AMT - plr\_tree )^2 ) )  
  
plr\_tree\_step = predict( lrf\_model, df\_test )  
head( plr\_tree\_step )

## 4 6 7 15 17 18   
## 12472.506 7355.451 11943.990 10502.346 15571.632 9044.153

RMSElr\_tree\_step = sqrt( mean( ( df\_test$TARGET\_LOSS\_AMT - plr\_tree\_step )^2 ) )

Compare the variables from the Linear Regression with those of the Random Forest and the Gradient Boosting.

Linear Regression -

TARGET\_LOSS\_AMT ~ LOAN + M\_MORTDUE +   
IMP\_VALUE + M\_VALUE + IMP\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ +   
M\_DELINQ + IMP\_CLAGE + IMP\_CLNO + IMP\_DEBTINC + M\_DEBTINC +   
FLAG.Job.Mgr + FLAG.Job.Office + FLAG.Job.Other + FLAG.Job.ProfExe +   
FLAG.Reason.HomeImp

GB\_Model -LOAN IMP\_DELINQ IMP\_CLNO IMP\_DEBTINC M\_DEBTINC IMP\_VALUE IMP\_CLAGE IMP\_DEROG IMP\_YOJ

importance(rf\_model)

## %IncMSE IncNodePurity  
## TARGET\_BAD\_FLAG 114.189392 90816671182  
## LOAN 75.056081 48273239979  
## IMP\_MORTDUE 9.345253 5420762996  
## M\_MORTDUE 4.308162 256607606  
## IMP\_VALUE 12.997514 9226894152  
## M\_VALUE 7.506812 1353170893  
## IMP\_YOJ 5.922053 2559274253  
## M\_YOJ 2.921449 165042523  
## IMP\_DEROG 8.189313 2001553129  
## M\_DEROG 3.512038 198306664  
## IMP\_DELINQ 13.530822 9133792194  
## M\_DELINQ 2.771952 95545234  
## IMP\_CLAGE 8.408003 4220036914  
## M\_CLAGE 5.735034 200217793  
## IMP\_NINQ 3.331829 2438408614  
## M\_NINQ 3.445997 78512611  
## IMP\_CLNO 25.438137 8733141717  
## M\_CLNO 1.505593 22260760  
## IMP\_DEBTINC 16.794164 8115505422  
## M\_DEBTINC 20.627929 19813664556  
## FLAG.Job.Mgr 1.576908 242210982  
## FLAG.Job.Office 3.422240 255025096  
## FLAG.Job.Other 1.735363 318462520  
## FLAG.Job.ProfExe 1.861185 286201560  
## FLAG.Job.Sales 1.753181 91196945  
## FLAG.Job.Self 3.252411 1317932382  
## FLAG.Reason.DebtCon 10.313082 1684462365  
## FLAG.Reason.HomeImp 12.301864 2440730616

Using the testing data set, calculate the Root Mean Square Error (RMSE) for all models.

#TREE  
RMSEt

## [1] 2786.254

# RF  
RMSEr

## [1] 1466.45

#GB  
RMSEg

## [1] 1153.8

#Linear regression with all the var  
RMSElrf

## [1] 4084.523

#Linear regression model with backward variable selection  
RMSElr

## [1] 4077.817

#Linear regression with decision tree w/forward stepwise selection  
RMSElr\_tree\_step

## [1] 4084.523

print( paste("TREE RMSE=", RMSEt ))

## [1] "TREE RMSE= 2786.25391549687"

print( paste("RF RMSE=", RMSEr ))

## [1] "RF RMSE= 1466.44992533321"

print( paste("GB RMSE=", RMSEg ))

## [1] "GB RMSE= 1153.80023827177"

print( paste("LR BACK RMSE=", RMSElrf ))

## [1] "LR BACK RMSE= 4084.52267404283"

print( paste("LR TREE RMSE=", RMSElr\_tree ))

## [1] "LR TREE RMSE= 4097.49901597081"

print( paste("LR TREE STEP RMSE=", RMSElr\_tree\_step ))

## [1] "LR TREE STEP RMSE= 4084.52267404283"

* Determine which model performed best and why you believe this.
* Write a brief summary of which model you would recommend using. Note that this is your opinion. There is no right answer. You might, for example, select a less accurate model because it is faster or easier to interpret.

GB model has the lowest RMSE showing that the loan amount that could be lost are the most accurate when compared to the actual losses.The GB model performed the best. When it comes to the accuracy, GB model is the most accurate and saving the prospective losses. However, given that decision tree’s interpretability, it is much easier to understand and to explain to stakeholders. Models like Random Forest is known for being overfitting and stable against the variance in the data. Given these considerations, Gradient Boosting is the model with the maximized accuracy due to its superior performance. However, if the easy interpretability and good predictive performance considered, Random Forest would be a strong candidate, and it is much simpler than Gradient Boosting.

STEP4 : Probability / Severity Model

library(rpart)  
library(rpart.plot)  
PATH ="/Users/stellam/Desktop/TRINE/Bigdata&dataScience/HMEQ\_Scrubbed"  
FILE\_NAME ="HMEQ\_Scrubbed.csv"  
INFILE = paste (PATH,FILE\_NAME, sep="/")  
setwd(PATH)  
df = read.csv(FILE\_NAME)  
  
SEED = 1  
set.seed( SEED )  
#  
TARGET = "TARGET\_BAD\_FLAG"  
  
#List the structure of the data (str)  
str( df )

## 'data.frame': 5960 obs. of 29 variables:  
## $ TARGET\_BAD\_FLAG : int 1 1 1 1 0 1 1 1 1 1 ...  
## $ TARGET\_LOSS\_AMT : int 641 1109 767 1425 0 335 1841 373 1217 1523 ...  
## $ LOAN : int 1100 1300 1500 1500 1700 1700 1800 1800 2000 2000 ...  
## $ IMP\_MORTDUE : num 25860 70053 13500 65000 97800 ...  
## $ M\_MORTDUE : int 0 0 0 1 0 0 0 0 0 1 ...  
## $ IMP\_VALUE : num 39025 68400 16700 89000 112000 ...  
## $ M\_VALUE : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_YOJ : num 10.5 7 4 7 3 9 5 11 3 16 ...  
## $ M\_YOJ : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_DEROG : int 0 0 0 1 0 0 3 0 0 0 ...  
## $ M\_DEROG : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_DELINQ : int 0 2 0 1 0 0 2 0 2 0 ...  
## $ M\_DELINQ : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_CLAGE : num 94.4 121.8 149.5 174 93.3 ...  
## $ M\_CLAGE : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_NINQ : int 1 0 1 1 0 1 1 0 1 0 ...  
## $ M\_NINQ : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_CLNO : int 9 14 10 20 14 8 17 8 12 13 ...  
## $ M\_CLNO : int 0 0 0 1 0 0 0 0 0 0 ...  
## $ IMP\_DEBTINC : num 35 35 35 35 35 ...  
## $ M\_DEBTINC : int 1 1 1 1 1 0 1 0 1 1 ...  
## $ FLAG.Job.Mgr : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ FLAG.Job.Office : int 0 0 0 0 1 0 0 0 0 0 ...  
## $ FLAG.Job.Other : int 1 1 1 0 0 1 1 1 1 0 ...  
## $ FLAG.Job.ProfExe : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ FLAG.Job.Sales : int 0 0 0 0 0 0 0 0 0 1 ...  
## $ FLAG.Job.Self : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ FLAG.Reason.DebtCon: int 0 0 0 0 0 0 0 0 0 0 ...  
## $ FLAG.Reason.HomeImp: int 1 1 1 0 1 1 1 1 1 1 ...

#Execute a summary of the data  
summary( df )

## TARGET\_BAD\_FLAG TARGET\_LOSS\_AMT LOAN IMP\_MORTDUE   
## Min. :0.0000 Min. : 0 Min. : 1100 Min. : 2063   
## 1st Qu.:0.0000 1st Qu.: 0 1st Qu.:11100 1st Qu.: 48139   
## Median :0.0000 Median : 0 Median :16300 Median : 65000   
## Mean :0.1995 Mean : 2676 Mean :18608 Mean : 72999   
## 3rd Qu.:0.0000 3rd Qu.: 0 3rd Qu.:23300 3rd Qu.: 88200   
## Max. :1.0000 Max. :78987 Max. :89900 Max. :399550   
## M\_MORTDUE IMP\_VALUE M\_VALUE IMP\_YOJ   
## Min. :0.00000 Min. : 8000 Min. :0.00000 Min. : 0.000   
## 1st Qu.:0.00000 1st Qu.: 66490 1st Qu.:0.00000 1st Qu.: 3.000   
## Median :0.00000 Median : 89000 Median :0.00000 Median : 7.000   
## Mean :0.08691 Mean :101536 Mean :0.01879 Mean : 8.756   
## 3rd Qu.:0.00000 3rd Qu.:119005 3rd Qu.:0.00000 3rd Qu.:12.000   
## Max. :1.00000 Max. :855909 Max. :1.00000 Max. :41.000   
## M\_YOJ IMP\_DEROG M\_DEROG IMP\_DELINQ   
## Min. :0.00000 Min. : 0.0000 Min. :0.0000 Min. : 0.000   
## 1st Qu.:0.00000 1st Qu.: 0.0000 1st Qu.:0.0000 1st Qu.: 0.000   
## Median :0.00000 Median : 0.0000 Median :0.0000 Median : 0.000   
## Mean :0.08641 Mean : 0.3431 Mean :0.1188 Mean : 0.503   
## 3rd Qu.:0.00000 3rd Qu.: 0.0000 3rd Qu.:0.0000 3rd Qu.: 1.000   
## Max. :1.00000 Max. :10.0000 Max. :1.0000 Max. :15.000   
## M\_DELINQ IMP\_CLAGE M\_CLAGE IMP\_NINQ   
## Min. :0.00000 Min. : 0.0 Min. :0.00000 Min. : 0.00   
## 1st Qu.:0.00000 1st Qu.: 117.4 1st Qu.:0.00000 1st Qu.: 0.00   
## Median :0.00000 Median : 174.0 Median :0.00000 Median : 1.00   
## Mean :0.09732 Mean : 179.5 Mean :0.05168 Mean : 1.17   
## 3rd Qu.:0.00000 3rd Qu.: 227.1 3rd Qu.:0.00000 3rd Qu.: 2.00   
## Max. :1.00000 Max. :1168.2 Max. :1.00000 Max. :17.00   
## M\_NINQ IMP\_CLNO M\_CLNO IMP\_DEBTINC   
## Min. :0.00000 Min. : 0.00 Min. :0.00000 Min. : 0.5245   
## 1st Qu.:0.00000 1st Qu.:15.00 1st Qu.:0.00000 1st Qu.: 30.7632   
## Median :0.00000 Median :20.00 Median :0.00000 Median : 35.0000   
## Mean :0.08557 Mean :21.25 Mean :0.03725 Mean : 34.0393   
## 3rd Qu.:0.00000 3rd Qu.:26.00 3rd Qu.:0.00000 3rd Qu.: 37.9499   
## Max. :1.00000 Max. :71.00 Max. :1.00000 Max. :203.3122   
## M\_DEBTINC FLAG.Job.Mgr FLAG.Job.Office FLAG.Job.Other   
## Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.0000   
## 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000   
## Median :0.0000 Median :0.0000 Median :0.0000 Median :0.0000   
## Mean :0.2126 Mean :0.1287 Mean :0.1591 Mean :0.4007   
## 3rd Qu.:0.0000 3rd Qu.:0.0000 3rd Qu.:0.0000 3rd Qu.:1.0000   
## Max. :1.0000 Max. :1.0000 Max. :1.0000 Max. :1.0000   
## FLAG.Job.ProfExe FLAG.Job.Sales FLAG.Job.Self FLAG.Reason.DebtCon  
## Min. :0.0000 Min. :0.00000 Min. :0.00000 Min. :0.0000   
## 1st Qu.:0.0000 1st Qu.:0.00000 1st Qu.:0.00000 1st Qu.:0.0000   
## Median :0.0000 Median :0.00000 Median :0.00000 Median :1.0000   
## Mean :0.2141 Mean :0.01829 Mean :0.03238 Mean :0.6591   
## 3rd Qu.:0.0000 3rd Qu.:0.00000 3rd Qu.:0.00000 3rd Qu.:1.0000   
## Max. :1.0000 Max. :1.00000 Max. :1.00000 Max. :1.0000   
## FLAG.Reason.HomeImp  
## Min. :0.0000   
## 1st Qu.:0.0000   
## Median :0.0000   
## Mean :0.2987   
## 3rd Qu.:1.0000   
## Max. :1.0000

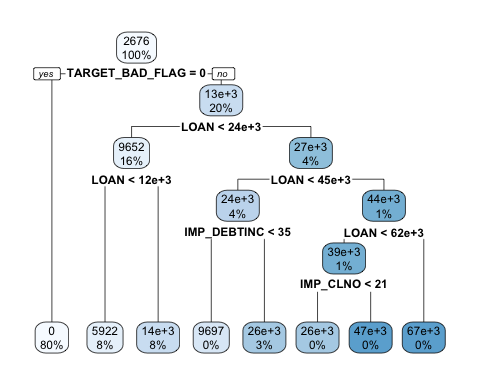
#Print the first six records  
dim( df )

## [1] 5960 29

df\_flag = df

##ANOVA REGRESSION TREE

t1a = rpart( data=df\_amt, TARGET\_LOSS\_AMT ~ ., control=tr\_set, method="anova" )  
rpart.plot( t1a )

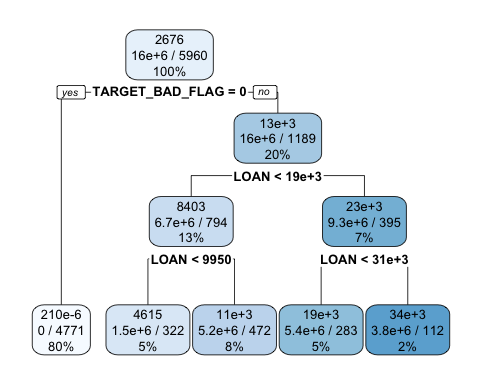


p1a = predict( t1a, df )  
RMSE1a = sqrt( mean( ( df$TARGET\_LOSS\_AMT - p1a )^2 ) )   
print( RMSE1a )

## [1] 2471.854

##POISSON REGRESSION TREE

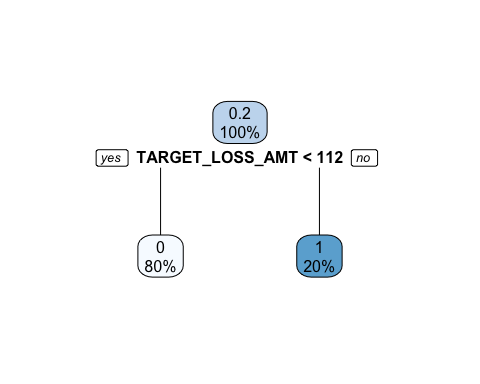
t1p = rpart( data=df\_amt, TARGET\_LOSS\_AMT ~ ., control=tr\_set, method="poisson" )  
rpart.plot( t1p )



p1p = predict( t1p, df )  
RMSE1p = sqrt( mean( ( df$TARGET\_LOSS\_AMT - p1p )^2 ) )   
print( RMSE1p )

## [1] 3001.205

t2\_f = rpart( data=df\_flag, TARGET\_BAD\_FLAG ~ ., control=tr\_set )   
rpart.plot( t2\_f )



p2\_f = predict( t2\_f, df )

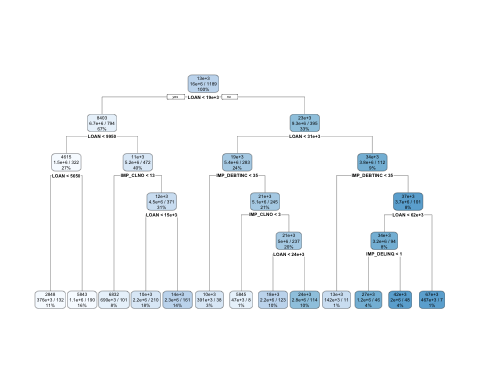
##Use the rpart library to predict the variable TARGET\_LOSS\_AMT using only records where TARGET\_BAD\_FLAG is 1.

df\_amt = subset( df, TARGET\_BAD\_FLAG == 1 )   
df\_amt$TARGET\_BAD\_FLAG = NULL  
head(df\_amt)

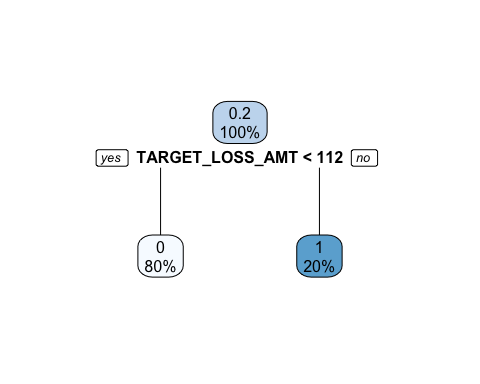
## TARGET\_LOSS\_AMT LOAN IMP\_MORTDUE M\_MORTDUE IMP\_VALUE M\_VALUE IMP\_YOJ M\_YOJ  
## 1 641 1100 25860 0 39025 0 10.5 0  
## 2 1109 1300 70053 0 68400 0 7.0 0  
## 3 767 1500 13500 0 16700 0 4.0 0  
## 4 1425 1500 65000 1 89000 1 7.0 1  
## 6 335 1700 30548 0 40320 0 9.0 0  
## 7 1841 1800 48649 0 57037 0 5.0 0  
## IMP\_DEROG M\_DEROG IMP\_DELINQ M\_DELINQ IMP\_CLAGE M\_CLAGE IMP\_NINQ M\_NINQ  
## 1 0 0 0 0 94.36667 0 1 0  
## 2 0 0 2 0 121.83333 0 0 0  
## 3 0 0 0 0 149.46667 0 1 0  
## 4 1 1 1 1 174.00000 1 1 1  
## 6 0 0 0 0 101.46600 0 1 0  
## 7 3 0 2 0 77.10000 0 1 0  
## IMP\_CLNO M\_CLNO IMP\_DEBTINC M\_DEBTINC FLAG.Job.Mgr FLAG.Job.Office  
## 1 9 0 35.00000 1 0 0  
## 2 14 0 35.00000 1 0 0  
## 3 10 0 35.00000 1 0 0  
## 4 20 1 35.00000 1 0 0  
## 6 8 0 37.11361 0 0 0  
## 7 17 0 35.00000 1 0 0  
## FLAG.Job.Other FLAG.Job.ProfExe FLAG.Job.Sales FLAG.Job.Self  
## 1 1 0 0 0  
## 2 1 0 0 0  
## 3 1 0 0 0  
## 4 0 0 0 0  
## 6 1 0 0 0  
## 7 1 0 0 0  
## FLAG.Reason.DebtCon FLAG.Reason.HomeImp  
## 1 0 1  
## 2 0 1  
## 3 0 1  
## 4 0 0  
## 6 0 1  
## 7 0 1

##Plot both decision trees ##POISSON

t2\_a = rpart( data=df\_amt, TARGET\_LOSS\_AMT ~ ., control=tr\_set, method="poisson" )  
rpart.plot( t2\_a )

 ##ANOVA

t2\_f = rpart( data=df\_flag, TARGET\_BAD\_FLAG ~ ., control=tr\_set, method ="anova")  
rpart.plot( t2\_f )



##Multiply the two values together for each record. -ANOVA PROBABILITY -POISSON PROBABILITY

p2\_f = predict( t2\_f, df )  
p2\_a = predict( t2\_a, df )  
p2 = p2\_f \* p2\_a  
head(p2)

## 1 2 3 4 5 6   
## 2848.089 2848.089 2848.089 2848.089 0.000 2848.089

##Calculate the Root Mean Square Error (RMSE) for both trees

##PROBABILITY

print( RMSE1p )

## [1] 3001.205

##SEVERITY MODEL

RMSE2 = sqrt( mean( ( df$TARGET\_LOSS\_AMT - p2 )^2 ) )   
print(RMSE2)

## [1] 2015.801

* Comment on how this model compares to using the model from Step 3. Which one would your recommend using?

Compared to the models from Step 3 which is - \* The Probability Model : the highest RMSE meaning that Its deviation from the actual values is bigger than the other models. \* The Severity Model : RMSE is better than the Linear Regression models & the Decision Tree model but is still higher than both the Random Forest and Gradient Boosting models.

The Gradient Boosting model has the lowest RMSE as 1146.7021 which outperforms the Severity Model as RMSE 2015.801. The Probability Model, with the highest RMSE (7701.568), would be the least preferred model. Recommendable model is going to be Gradient Boosting. model if accuracy is the top priority, as it outperforms the Severity Model and greatly surpasses the Probability Model in this aspect.

STEP02 : PCA Analysis

#Use only the input variables. Do not use either of the target variables. #Use only the continuous variables. Do not use any of the flag variables. #Do a Principal Component Analysis (PCA) on the continuous variables.

library( Rtsne )  
df\_pca = df  
df\_pca$TARGET\_BAD\_FLAG = NULL  
df\_pca$TARGET\_LOSS\_AMT = NULL  
head(df\_pca)

## LOAN IMP\_MORTDUE M\_MORTDUE IMP\_VALUE M\_VALUE IMP\_YOJ M\_YOJ IMP\_DEROG M\_DEROG  
## 1 1100 25860 0 39025 0 10.5 0 0 0  
## 2 1300 70053 0 68400 0 7.0 0 0 0  
## 3 1500 13500 0 16700 0 4.0 0 0 0  
## 4 1500 65000 1 89000 1 7.0 1 1 1  
## 5 1700 97800 0 112000 0 3.0 0 0 0  
## 6 1700 30548 0 40320 0 9.0 0 0 0  
## IMP\_DELINQ M\_DELINQ IMP\_CLAGE M\_CLAGE IMP\_NINQ M\_NINQ IMP\_CLNO M\_CLNO  
## 1 0 0 94.36667 0 1 0 9 0  
## 2 2 0 121.83333 0 0 0 14 0  
## 3 0 0 149.46667 0 1 0 10 0  
## 4 1 1 174.00000 1 1 1 20 1  
## 5 0 0 93.33333 0 0 0 14 0  
## 6 0 0 101.46600 0 1 0 8 0  
## IMP\_DEBTINC M\_DEBTINC FLAG.Job.Mgr FLAG.Job.Office FLAG.Job.Other  
## 1 35.00000 1 0 0 1  
## 2 35.00000 1 0 0 1  
## 3 35.00000 1 0 0 1  
## 4 35.00000 1 0 0 0  
## 5 35.00000 1 0 1 0  
## 6 37.11361 0 0 0 1  
## FLAG.Job.ProfExe FLAG.Job.Sales FLAG.Job.Self FLAG.Reason.DebtCon  
## 1 0 0 0 0  
## 2 0 0 0 0  
## 3 0 0 0 0  
## 4 0 0 0 0  
## 5 0 0 0 0  
## 6 0 0 0 0  
## FLAG.Reason.HomeImp  
## 1 1  
## 2 1  
## 3 1  
## 4 0  
## 5 1  
## 6 1

pca = prcomp(df\_pca,center=TRUE, scale=TRUE)  
summary(pca)

## Importance of components:  
## PC1 PC2 PC3 PC4 PC5 PC6 PC7  
## Standard deviation 2.0093 1.60008 1.44788 1.28941 1.20068 1.1396 1.11902  
## Proportion of Variance 0.1495 0.09482 0.07764 0.06158 0.05339 0.0481 0.04638  
## Cumulative Proportion 0.1495 0.24435 0.32200 0.38357 0.43697 0.4851 0.53145  
## PC8 PC9 PC10 PC11 PC12 PC13 PC14  
## Standard deviation 1.07306 1.06717 1.0380 0.9901 0.97455 0.93766 0.91909  
## Proportion of Variance 0.04265 0.04218 0.0399 0.0363 0.03518 0.03256 0.03129  
## Cumulative Proportion 0.57409 0.61627 0.6562 0.6925 0.72766 0.76022 0.79150  
## PC15 PC16 PC17 PC18 PC19 PC20 PC21  
## Standard deviation 0.88723 0.8818 0.84057 0.81072 0.78299 0.76740 0.74985  
## Proportion of Variance 0.02915 0.0288 0.02617 0.02434 0.02271 0.02181 0.02083  
## Cumulative Proportion 0.82066 0.8495 0.87563 0.89997 0.92268 0.94449 0.96532  
## PC22 PC23 PC24 PC25 PC26 PC27  
## Standard deviation 0.56835 0.4348 0.41853 0.3601 0.28383 0.19728  
## Proportion of Variance 0.01196 0.0070 0.00649 0.0048 0.00298 0.00144  
## Cumulative Proportion 0.97728 0.9843 0.99077 0.9956 0.99856 1.00000

head(pca)

## $sdev  
## [1] 2.0092989 1.6000756 1.4478827 1.2894107 1.2006816 1.1396361 1.1190166  
## [8] 1.0730598 1.0671697 1.0379573 0.9900525 0.9745511 0.9376626 0.9190919  
## [15] 0.8872291 0.8818425 0.8405745 0.8107216 0.7829923 0.7673953 0.7498534  
## [22] 0.5683505 0.4348459 0.4185282 0.3601443 0.2838264 0.1972765  
##   
## $rotation  
## PC1 PC2 PC3 PC4  
## LOAN -0.08250951 0.222283188 -0.04305869 0.152184833  
## IMP\_MORTDUE -0.08918963 0.479415124 0.14285515 0.004442962  
## M\_MORTDUE 0.20843999 -0.137305505 0.12220932 0.088324912  
## IMP\_VALUE -0.11798662 0.474329010 0.17554428 0.028978467  
## M\_VALUE 0.06494666 0.009000081 -0.02990975 -0.271011548  
## IMP\_YOJ -0.05646466 -0.025242178 0.07619147 0.023086128  
## M\_YOJ 0.23239109 -0.040215383 0.02086110 0.169419514  
## IMP\_DEROG 0.17832224 0.060782646 -0.15210014 -0.339988532  
## M\_DEROG 0.37557239 0.160335073 -0.07600357 -0.035869401  
## IMP\_DELINQ 0.10871014 0.083789335 -0.09038149 -0.432436455  
## M\_DELINQ 0.41520286 0.120390892 -0.05037720 0.031378217  
## IMP\_CLAGE -0.02838715 0.156262874 0.17658088 0.113684505  
## M\_CLAGE 0.37347715 0.072094266 0.04316141 0.126973468  
## IMP\_NINQ 0.00399766 0.056821629 -0.24038900 -0.262416362  
## M\_NINQ 0.41206039 0.111832489 0.00925320 0.056279898  
## IMP\_CLNO -0.07614245 0.343053396 -0.04903586 -0.166159010  
## M\_CLNO 0.40592755 0.113638782 0.04081641 0.091168939  
## IMP\_DEBTINC -0.07083404 0.113129077 -0.12472809 -0.211546859  
## M\_DEBTINC 0.02482595 -0.043556075 -0.08593648 -0.457416358  
## FLAG.Job.Mgr -0.01948061 0.107401519 -0.10527505 -0.155128492  
## FLAG.Job.Office -0.03282995 -0.038685275 0.02706107 0.029893638  
## FLAG.Job.Other 0.03139681 -0.311914930 -0.15602269 0.016738731  
## FLAG.Job.ProfExe -0.09674983 0.256120359 0.18255705 0.070838172  
## FLAG.Job.Sales -0.01947118 0.030949526 -0.05493065 0.008403280  
## FLAG.Job.Self -0.01733950 0.093862667 0.14953583 -0.104648439  
## FLAG.Reason.DebtCon -0.09886759 0.148096475 -0.58283719 0.240587315  
## FLAG.Reason.HomeImp 0.02872367 -0.159349132 0.57683893 -0.265502597  
## PC5 PC6 PC7 PC8  
## LOAN -0.365469649 0.1053897192 -0.23587965 -0.291418039  
## IMP\_MORTDUE -0.160026633 0.1259574329 0.08900637 0.018422799  
## M\_MORTDUE -0.194689121 0.0178498600 -0.04990182 -0.237766401  
## IMP\_VALUE -0.195239392 0.1037931159 0.04536164 -0.014604810  
## M\_VALUE -0.009513889 -0.1255434902 0.04295948 -0.403251864  
## IMP\_YOJ -0.084215312 -0.4706606783 -0.32098017 -0.188579189  
## M\_YOJ -0.276207521 0.0125012000 -0.07890998 -0.030890546  
## IMP\_DEROG -0.050334391 -0.0508976762 -0.01069704 0.035427344  
## M\_DEROG 0.060329253 -0.0475365391 -0.13069467 0.148691737  
## IMP\_DELINQ 0.030939009 -0.2362968349 -0.14020701 -0.054684138  
## M\_DELINQ 0.008375585 0.0315998807 -0.07020270 0.098810745  
## IMP\_CLAGE -0.091361159 -0.4650605021 -0.31120442 0.074273987  
## M\_CLAGE 0.055850283 0.0326679224 0.16537904 -0.085437186  
## IMP\_NINQ -0.152357591 0.1555730582 0.10846696 0.062708256  
## M\_NINQ 0.013938825 0.0166914350 -0.03283248 0.050264338  
## IMP\_CLNO 0.029822745 -0.2330883155 -0.14856550 0.286735787  
## M\_CLNO 0.081356699 0.0004037033 0.10332216 -0.013148079  
## IMP\_DEBTINC -0.151960768 0.2206241569 -0.15350471 0.398226421  
## M\_DEBTINC -0.011900265 -0.0708816509 0.20207356 -0.150125052  
## FLAG.Job.Mgr 0.122766415 0.1224565176 -0.17716404 -0.414635763  
## FLAG.Job.Office 0.444282422 0.2355961657 -0.49674381 0.090085262  
## FLAG.Job.Other -0.548655980 -0.1653401555 0.06555050 0.261215518  
## FLAG.Job.ProfExe 0.202816788 -0.2820545148 0.50302016 0.008417161  
## FLAG.Job.Sales 0.057772771 0.0095266563 0.01303622 0.206421725  
## FLAG.Job.Self -0.214975426 0.3565496474 -0.08395586 -0.161472347  
## FLAG.Reason.DebtCon 0.046527690 -0.0557409224 0.02982909 -0.082252301  
## FLAG.Reason.HomeImp -0.046675228 0.0723451114 -0.03530199 0.127141640  
## PC9 PC10 PC11 PC12  
## LOAN -0.15724442 0.139618625 0.006042509 0.042053411  
## IMP\_MORTDUE -0.02557466 -0.072917807 0.164371587 -0.162839333  
## M\_MORTDUE -0.19888609 -0.242373351 0.389527878 0.031662553  
## IMP\_VALUE -0.03030747 0.002744780 0.037771734 -0.143687481  
## M\_VALUE -0.33147370 -0.064488231 -0.095440349 -0.359297462  
## IMP\_YOJ 0.17213411 0.152567367 -0.313086108 -0.043984421  
## M\_YOJ -0.10798551 -0.240116528 0.214218340 -0.138942486  
## IMP\_DEROG -0.09094103 -0.036467154 0.281506312 0.280248294  
## M\_DEROG 0.06942486 0.072316295 0.052129412 0.094779641  
## IMP\_DELINQ -0.14252908 0.050819446 0.056390498 0.151346109  
## M\_DELINQ 0.03847033 0.076712066 0.043984061 0.111656088  
## IMP\_CLAGE -0.02835269 -0.139627831 0.019027050 -0.008881908  
## M\_CLAGE 0.03816313 0.029414035 -0.258872902 -0.247199785  
## IMP\_NINQ 0.10996906 0.179836259 0.153421745 0.016716233  
## M\_NINQ 0.03422593 0.066816513 -0.043526179 0.123206483  
## IMP\_CLNO 0.01917201 -0.014116752 -0.020157363 0.069577417  
## M\_CLNO 0.05440417 0.041125200 -0.267691097 -0.210079555  
## IMP\_DEBTINC 0.09627614 -0.049176437 -0.142230226 -0.413908056  
## M\_DEBTINC -0.18114047 -0.068891193 -0.164730029 -0.197020856  
## FLAG.Job.Mgr 0.66873862 -0.260099586 0.126993050 -0.034728021  
## FLAG.Job.Office -0.39070065 0.167604197 0.135069684 -0.204776212  
## FLAG.Job.Other 0.02490111 0.124018583 -0.011667119 -0.102990892  
## FLAG.Job.ProfExe -0.09999007 0.128869846 0.138877502 0.104767200  
## FLAG.Job.Sales -0.15966966 -0.780594664 -0.287519514 0.171423804  
## FLAG.Job.Self -0.16152629 0.113404576 -0.475953361 0.494875702  
## FLAG.Reason.DebtCon -0.10188588 0.008403106 -0.040638950 0.045371974  
## FLAG.Reason.HomeImp 0.12132572 0.010351172 0.052941483 -0.003191609  
## PC13 PC14 PC15 PC16  
## LOAN 0.089944717 0.17914287 -0.290553082 -0.105610112  
## IMP\_MORTDUE -0.090291963 0.12620707 0.197819474 0.243489490  
## M\_MORTDUE 0.126340189 0.01347966 0.020612256 0.087115086  
## IMP\_VALUE -0.052607934 0.18044032 0.104355194 0.251335136  
## M\_VALUE -0.339263803 0.10984065 0.253319441 -0.519605643  
## IMP\_YOJ 0.218996136 0.41003387 -0.216729937 0.066189351  
## M\_YOJ 0.128042808 -0.38327105 -0.310039570 -0.081656777  
## IMP\_DEROG 0.024506364 0.21539147 -0.150945542 -0.144941863  
## M\_DEROG -0.111617192 0.15254184 0.011051557 0.001278627  
## IMP\_DELINQ -0.210454985 -0.14264827 -0.118815661 0.324123768  
## M\_DELINQ -0.104734666 0.13123558 -0.019824385 -0.024181422  
## IMP\_CLAGE 0.206139342 -0.35081899 0.221275532 -0.114862493  
## M\_CLAGE 0.187575264 -0.05557979 0.079370771 0.045101699  
## IMP\_NINQ 0.662942815 0.11653048 0.275721656 -0.265449588  
## M\_NINQ -0.090371326 0.03480063 -0.014045273 0.023990833  
## IMP\_CLNO 0.003782662 -0.25941243 0.217194237 -0.154423838  
## M\_CLNO 0.116003226 -0.05673846 0.039687957 -0.000689296  
## IMP\_DEBTINC -0.091840310 -0.08204488 -0.476922934 -0.215087166  
## M\_DEBTINC 0.283727332 -0.16018402 -0.123790945 0.451216802  
## FLAG.Job.Mgr -0.072290647 -0.11834104 0.007999572 -0.002138806  
## FLAG.Job.Office 0.156993232 0.06077260 0.060996782 0.103897374  
## FLAG.Job.Other -0.197205237 0.06997205 0.228652892 0.140174969  
## FLAG.Job.ProfExe 0.068765630 -0.02331906 -0.372917793 -0.207403111  
## FLAG.Job.Sales 0.119521720 0.34264769 0.010458646 -0.023432381  
## FLAG.Job.Self -0.007150840 -0.29332786 0.045328567 -0.087746307  
## FLAG.Reason.DebtCon -0.039981179 -0.06313275 -0.002258930 0.069107344  
## FLAG.Reason.HomeImp 0.009088686 0.10240067 -0.011552642 -0.068189794  
## PC17 PC18 PC19 PC20  
## LOAN -0.1886798707 0.215116712 0.4121064689 -0.364916755  
## IMP\_MORTDUE 0.0687933093 -0.053205240 -0.1662680585 0.126283709  
## M\_MORTDUE 0.4772470056 -0.140039431 -0.1382133859 0.080699667  
## IMP\_VALUE -0.1123623166 -0.022248645 -0.0426220165 0.102438309  
## M\_VALUE 0.0667229602 -0.024777415 -0.0225218798 -0.024016432  
## IMP\_YOJ 0.1361072065 -0.090477774 -0.3974742441 0.071228944  
## M\_YOJ -0.1610467086 0.148387839 -0.3653700792 -0.113604070  
## IMP\_DEROG -0.5817373442 -0.301850445 -0.1369595019 0.293830088  
## M\_DEROG 0.2206592813 -0.086581344 0.1451189676 -0.031573180  
## IMP\_DELINQ 0.1209114031 0.631413709 0.0439401877 0.217745032  
## M\_DELINQ 0.1742902268 -0.149398579 0.1548499925 -0.168459985  
## IMP\_CLAGE -0.0469192665 -0.188817236 0.4573682838 0.309726814  
## M\_CLAGE -0.2202071888 0.174343618 -0.0007333249 0.194521635  
## IMP\_NINQ 0.2038588458 0.233032416 0.0135230041 0.060982840  
## M\_NINQ 0.0780089556 -0.119419917 0.0359466034 -0.164163492  
## IMP\_CLNO -0.0305413087 0.011730870 -0.3578658596 -0.524365070  
## M\_CLNO -0.1392450965 0.121356347 -0.0598287334 0.042728740  
## IMP\_DEBTINC 0.2440866718 -0.114542000 0.0598770902 0.240985931  
## M\_DEBTINC 0.0009164731 -0.386507160 0.1819593421 -0.301500530  
## FLAG.Job.Mgr -0.0280032403 -0.032421312 0.0570092667 -0.044132362  
## FLAG.Job.Office -0.0670080744 -0.025466510 -0.0528358089 -0.007300151  
## FLAG.Job.Other -0.0743646288 -0.003080056 0.0337601459 -0.040002177  
## FLAG.Job.ProfExe 0.1598519530 0.004148369 0.0515331738 0.004683092  
## FLAG.Job.Sales 0.0136325250 0.173113052 0.0775017509 -0.062201352  
## FLAG.Job.Self 0.1229339424 -0.148159836 -0.1457503277 0.177041392  
## FLAG.Reason.DebtCon 0.0796890544 -0.103796881 -0.0279250647 0.091839198  
## FLAG.Reason.HomeImp -0.0448910143 0.062852946 0.0837783566 -0.121375063  
## PC21 PC22 PC23 PC24  
## LOAN -0.2215036958 -0.040007150 0.007747665 0.120074892  
## IMP\_MORTDUE 0.0422445472 0.011027837 0.353075344 0.553368130  
## M\_MORTDUE -0.4921244099 0.001571199 -0.101680485 -0.124260838  
## IMP\_VALUE 0.1747206692 0.029772285 -0.345157774 -0.591632248  
## M\_VALUE 0.1408617818 0.019339559 -0.015635281 -0.004653297  
## IMP\_YOJ 0.0824789938 0.020420224 0.062586666 0.030618770  
## M\_YOJ 0.4752087787 -0.087861039 0.018812944 0.019975855  
## IMP\_DEROG -0.1592084688 0.007364856 0.010698802 0.010400638  
## M\_DEROG 0.1805992755 -0.647400830 -0.382974751 0.214575843  
## IMP\_DELINQ -0.0146775325 0.085924998 0.044672642 -0.035300808  
## M\_DELINQ 0.1536349820 0.027851844 0.672589318 -0.394241397  
## IMP\_CLAGE 0.0693224367 0.068146075 0.032444194 0.014682760  
## M\_CLAGE -0.2741943013 -0.118850072 0.103823073 0.113905017  
## IMP\_NINQ 0.1765457025 0.085661383 -0.021799682 -0.013984207  
## M\_NINQ 0.1228968477 0.716694122 -0.347372544 0.258624695  
## IMP\_CLNO -0.3474545240 -0.049486805 -0.015833063 -0.057317691  
## M\_CLNO -0.2200705106 -0.001590157 -0.060149171 -0.144504709  
## IMP\_DEBTINC -0.1777473412 0.083905182 -0.019565822 -0.014786843  
## M\_DEBTINC 0.0809004478 -0.050076080 0.002465292 0.032444047  
## FLAG.Job.Mgr -0.0002101558 0.017359021 0.011236822 -0.027930560  
## FLAG.Job.Office 0.0533205568 0.038362025 0.026779128 -0.001428482  
## FLAG.Job.Other -0.0216821058 0.005673004 0.017279269 -0.002493396  
## FLAG.Job.ProfExe 0.0208955844 0.001777991 0.016577833 -0.007097095  
## FLAG.Job.Sales 0.0519205053 0.025019174 0.013321592 0.005528852  
## FLAG.Job.Self 0.0446196258 -0.081713171 0.031788411 0.002219788  
## FLAG.Reason.DebtCon 0.0069209894 0.020914599 -0.002030880 0.010097642  
## FLAG.Reason.HomeImp 0.0121554923 -0.015231800 0.017093077 0.055027702  
## PC25 PC26 PC27  
## LOAN -0.037537367 -0.0153613766 9.466107e-03  
## IMP\_MORTDUE -0.157683238 -0.0342568676 7.694669e-03  
## M\_MORTDUE 0.013733538 0.0346111053 1.339194e-02  
## IMP\_VALUE 0.134881926 0.0379399425 -1.578745e-02  
## M\_VALUE 0.020311979 0.0210307339 -3.766300e-04  
## IMP\_YOJ 0.020139448 0.0087774594 4.163574e-04  
## M\_YOJ 0.009134723 0.0476003765 -3.793511e-03  
## IMP\_DEROG -0.028773354 0.0045535251 3.956591e-03  
## M\_DEROG 0.012236296 -0.0098873763 2.316941e-02  
## IMP\_DELINQ -0.003920311 0.0131509183 -8.863126e-03  
## M\_DELINQ 0.061307667 -0.0127750325 -4.165305e-02  
## IMP\_CLAGE -0.035584998 -0.0023367359 -1.595405e-02  
## M\_CLAGE 0.616818573 0.1040078364 1.932753e-02  
## IMP\_NINQ -0.015523371 -0.0004069654 5.575714e-05  
## M\_NINQ 0.111611715 0.0008744859 1.238590e-02  
## IMP\_CLNO 0.108573951 0.0133452243 -8.845705e-03  
## M\_CLNO -0.732317913 0.0359734165 7.829905e-02  
## IMP\_DEBTINC 0.039603062 -0.0212684083 -1.501068e-02  
## M\_DEBTINC -0.004222748 -0.0120381342 -8.266618e-03  
## FLAG.Job.Mgr 0.017712786 0.1304279603 3.774905e-01  
## FLAG.Job.Office 0.017514125 0.1442678413 4.124675e-01  
## FLAG.Job.Other 0.004779727 0.1727444055 5.429528e-01  
## FLAG.Job.ProfExe 0.027213967 0.1510117517 4.648922e-01  
## FLAG.Job.Sales 0.007037289 0.0476967673 1.557420e-01  
## FLAG.Job.Self 0.001140725 0.0677772094 2.023665e-01  
## FLAG.Reason.DebtCon -0.050140229 0.6730038918 -2.255646e-01  
## FLAG.Reason.HomeImp -0.040613946 0.6553984108 -2.238740e-01  
##   
## $center  
## LOAN IMP\_MORTDUE M\_MORTDUE IMP\_VALUE   
## 1.860797e+04 7.299939e+04 8.691275e-02 1.015360e+05   
## M\_VALUE IMP\_YOJ M\_YOJ IMP\_DEROG   
## 1.879195e-02 8.756166e+00 8.640940e-02 3.431208e-01   
## M\_DEROG IMP\_DELINQ M\_DELINQ IMP\_CLAGE   
## 1.187919e-01 5.030201e-01 9.731544e-02 1.794683e+02   
## M\_CLAGE IMP\_NINQ M\_NINQ IMP\_CLNO   
## 5.167785e-02 1.170134e+00 8.557047e-02 2.124782e+01   
## M\_CLNO IMP\_DEBTINC M\_DEBTINC FLAG.Job.Mgr   
## 3.724832e-02 3.403929e+01 2.125839e-01 1.286913e-01   
## FLAG.Job.Office FLAG.Job.Other FLAG.Job.ProfExe FLAG.Job.Sales   
## 1.590604e-01 4.006711e-01 2.140940e-01 1.828859e-02   
## FLAG.Job.Self FLAG.Reason.DebtCon FLAG.Reason.HomeImp   
## 3.238255e-02 6.590604e-01 2.986577e-01   
##   
## $scale  
## LOAN IMP\_MORTDUE M\_MORTDUE IMP\_VALUE   
## 1.120748e+04 4.255304e+04 2.817308e-01 5.687040e+04   
## M\_VALUE IMP\_YOJ M\_YOJ IMP\_DEROG   
## 1.358010e-01 7.259424e+00 2.809912e-01 8.300165e-01   
## M\_DEROG IMP\_DELINQ M\_DELINQ IMP\_CLAGE   
## 3.235707e-01 1.083364e+00 2.964117e-01 8.357281e+01   
## M\_CLAGE IMP\_NINQ M\_NINQ IMP\_CLNO   
## 2.213944e-01 1.653866e+00 2.797522e-01 9.951308e+00   
## M\_CLNO IMP\_DEBTINC M\_DEBTINC FLAG.Job.Mgr   
## 1.893856e-01 7.649022e+00 4.091700e-01 3.348860e-01   
## FLAG.Job.Office FLAG.Job.Other FLAG.Job.ProfExe FLAG.Job.Sales   
## 3.657631e-01 4.900756e-01 4.102267e-01 1.340042e-01   
## FLAG.Job.Self FLAG.Reason.DebtCon FLAG.Reason.HomeImp   
## 1.770288e-01 4.740649e-01 4.577078e-01   
##   
## $x  
## PC1 PC2 PC3 PC4 PC5  
## [1,] -3.334837e-02 -3.2559132021 9.638764e-01 -1.5156834168 -0.0548213040  
## [2,] -1.048168e-02 -2.1528326969 1.177300e+00 -2.1902919576 -0.1535836810  
## [3,] 6.012015e-02 -3.4133337685 8.952064e-01 -1.4853335842 0.0734267797  
## [4,] 9.792256e+00 0.9481554140 4.432035e-01 -1.6581530157 -0.0083855508  
## [5,] -4.757578e-01 -1.1320132687 1.860498e+00 -1.3653405144 1.9339935350  
## [6,] -1.136180e-01 -3.0586688092 1.161052e+00 -0.4253453486 -0.1027258205  
## [7,] 7.090125e-01 -2.1980519762 2.430598e-01 -3.6963485940 -0.2433414728  
## [8,] -1.272380e-01 -3.1255402313 1.305413e+00 -0.2687395578 -0.0202619479  
## [9,] 1.241226e-01 -2.5832997030 1.005814e+00 -2.2043534106 -0.1172542170  
## [10,] 2.772100e-01 -2.0988463100 1.734384e+00 -1.0069532034 0.5653935360  
## [11,] 8.224972e+00 1.0727064695 -9.360276e-02 -2.5372514430 1.6811439775  
## [12,] -7.680138e-02 -2.7149952455 1.288060e+00 -1.8203907860 2.2933519111  
## [13,] -1.720853e-01 -2.2926987481 7.535398e-01 -1.9542894029 -0.1590840842  
## [14,] -4.792788e-01 -0.4843148515 8.226781e-02 -1.4375398314 1.3646081991  
## [15,] -1.742320e-01 -2.0071267923 1.311628e+00 -1.8009238454 -0.2717140616  
## [16,] 8.605663e-01 -3.0244064110 1.481627e+00 -0.8542094810 -1.1202907565  
## [17,] 5.177954e-01 0.1109130076 4.708671e-01 -5.3625163069 1.0308044397  
## [18,] 8.443913e+00 0.7216403207 6.377736e-01 -0.5480561220 2.3121209665  
## [19,] -4.278882e-02 -3.0086365724 7.890782e-01 -1.6886282283 0.0274710098  
## [20,] -5.211849e-01 -0.9733325454 2.156313e+00 -0.1295575549 1.9745275627  
## [21,] 2.921702e-02 -2.7117571412 8.930820e-01 -1.9630497450 -0.0627837694  
## [22,] 1.521636e+00 -1.1540655718 2.075976e+00 -0.9344619291 1.4493470367  
## [23,] -2.728148e-01 -1.8075448495 7.244833e-01 -2.4022029832 1.3339043307  
## [24,] 1.693318e+00 -1.1436865640 6.044623e-01 -5.0694452864 1.2915602237  
## [25,] 1.584682e+00 -3.8425402949 1.059465e+00 -0.9421658446 -1.9148210624  
## [26,] -3.878196e-01 -1.5825425659 1.082155e+00 -1.1905923233 1.3349675475  
## [27,] -5.047633e-01 -1.0767507464 2.189204e+00 -0.0675962008 2.0105092439  
## [28,] -1.949180e-01 -2.4744226413 1.299845e+00 -1.6279507602 1.0219030921  
## [29,] 3.184339e-01 -2.7221213325 1.123557e+00 -2.3005818358 -0.1937136743  
## [30,] 6.122845e-01 -2.0749940070 2.484133e+00 -1.2661562421 -1.1095638985  
## [31,] -5.818745e-01 -0.7446353604 2.442224e+00 -1.0130923190 1.1600176467  
## [32,] 1.216177e+00 1.0844999660 4.634403e-01 -9.7090723906 -0.3866248360  
## [33,] 7.674747e-01 -2.9441358384 1.692999e-01 -3.2385565879 -0.5214424566  
## [34,] -7.837525e-01 0.7542775612 -6.736404e-01 -0.9918587742 1.1210479745  
## [35,] -4.911056e-01 -1.0238100419 2.158601e+00 -0.0792608261 2.0145835562  
## [36,] -5.173727e-01 -0.9459759517 2.209518e+00 -0.0607209731 1.9699902097  
## [37,] 4.617201e-01 -2.8057443704 6.022367e-01 -1.7094212684 -0.5111375252  
## [38,] -9.815059e-01 0.8026326764 -1.450493e+00 -0.7115872788 0.8666113874  
## [39,] -5.428401e-01 -0.8962987311 2.139999e+00 -0.1561071596 1.9399817886  
## [40,] 1.138445e-01 -3.5048422941 8.329487e-02 -2.2191832172 -0.2154250503  
## [41,] 8.887789e-01 -3.6820600845 1.395660e+00 -1.3776115076 -0.6317999369  
## [42,] 8.749196e-01 -3.5786993164 1.204359e+00 -1.5845230491 -0.7388555424  
## [43,] -6.975821e-01 -0.2096357326 1.854630e+00 -1.5026734404 -0.8643959014  
## [44,] -2.778648e-01 -2.4291181134 -1.344229e+00 -0.2000069484 0.2356028076  
## [45,] 8.335780e-01 -3.3968329292 -6.674557e-01 -3.2701632535 -1.9093865934  
## [46,] 6.538137e-01 -3.1107242339 1.461961e+00 -1.2101281210 -0.6478994398  
## [47,] -5.553350e-01 -0.2386847625 1.526441e+00 -2.4179146069 0.8010964345  
## [48,] 1.501422e-02 -2.0039796756 8.959131e-01 -2.6890974126 1.5235129815  
## [49,] 1.111047e+00 -0.1658897097 8.933939e-01 -3.2363066853 1.3372620509  
## [50,] -4.862831e-01 -1.7951068958 1.902014e+00 -1.2766250675 1.9640382966  
## [51,] -5.900650e-02 -2.7723637540 9.983943e-01 -1.5207042161 -0.1065162511  
## [52,] 9.340816e+00 0.7584811472 5.998899e-01 0.3497480085 0.0733518193  
## [53,] 8.760501e-01 0.0690720610 1.133550e+00 -1.8629005053 1.1880935927  
## [54,] -3.085365e-01 -0.6621303589 1.692950e+00 -3.1055811459 1.2585878105  
## [55,] 6.767667e-01 -2.9226985272 1.790137e+00 0.6775476259 -1.1954624887  
## [56,] -1.837995e-01 -2.1149911952 7.385591e-01 -1.9815770584 -0.3859209983  
## [57,] -7.366641e-01 -0.4021604665 2.537654e+00 -0.1097828048 0.9835601730  
## [58,] 1.959745e+00 -1.5080026164 1.366544e+00 -2.9816572454 1.9845680570  
## [59,] -6.657298e-01 0.6443018937 1.404276e+00 -2.0439087778 0.7986122734  
## [60,] -4.731673e-01 1.2349874431 -8.804091e-01 -1.7343578798 -0.4898356804  
## [61,] -9.758295e-02 -2.3104674661 1.600239e+00 -1.5255590648 2.2310212330  
## [62,] -1.123584e-01 -2.9778598027 1.214254e+00 -1.3142815250 -0.0948792420  
## [63,] 4.079858e-02 -3.4479545759 9.667029e-01 -1.3499024059 0.1090417530  
## [64,] 7.598818e+00 1.5544286979 1.788713e+00 -0.9624938960 2.1310632165  
## [65,] -1.289475e-01 -2.1098282789 8.070698e-01 -2.0999973442 1.2475477313  
## [66,] -7.676663e-01 0.1676583139 2.203449e+00 -1.4978382875 1.0118444953  
## [67,] 9.792757e-01 0.1137488282 9.910051e-01 -2.3035792697 1.2096006706  
## [68,] -5.319377e-01 -1.0348519292 2.194037e+00 -0.0619464236 1.9627184519  
## [69,] -3.782539e-02 -0.9556532972 -1.377622e+00 -2.3021236010 2.3747442033  
## [70,] -4.367969e-01 -1.7602422304 2.382582e+00 0.2557786347 2.2250481997  
## [71,] 4.894999e-02 -3.3757031290 1.235233e+00 -0.1104491618 0.1723183086  
## [72,] 4.268740e-01 -0.4159181145 5.943604e-01 -4.8319609144 1.2560296491  
## [73,] -4.308277e-01 -1.7806785021 2.381779e+00 0.2685646862 2.2332900381  
## [74,] 9.387238e+00 0.7135619559 1.023678e+00 1.8311011372 0.3232562178  
## [75,] 4.721886e-01 -1.8160547549 2.589243e+00 -0.3156101884 -1.2861843651  
## [76,] -1.021956e-01 -2.9131807414 1.604979e+00 0.0823622731 0.0977159645  
## [77,] 1.580914e-01 -3.1603754668 2.475289e-01 -2.4507892060 -0.3681420294  
## [78,] -5.052023e-01 0.4457293327 -9.137215e-01 -2.1033171773 1.6088788973  
## [79,] -5.051739e-01 -1.0064808458 2.167104e+00 -0.0546782864 1.9816368197  
## [80,] -3.199756e-01 -1.3432904263 -1.886438e+00 -1.5605729409 1.5930827703  
## [81,] -4.957267e-01 -0.9984011019 2.167140e+00 -0.0476747141 1.9878424822  
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## [87,] 1.501902e-01 -2.1881263515 9.710792e-01 -2.5694240036 -0.0722561015  
## [88,] -1.268895e-01 -2.0661117270 1.255610e+00 -1.7694085260 -0.2270383177  
## [89,] 5.784120e-01 -2.9834957982 -1.699741e+00 0.1035696789 -0.5377236043  
## [90,] -2.743962e-01 -1.4035792589 8.248859e-01 -2.3263188991 1.0424172623  
## [91,] -2.722575e-02 -3.0505253305 5.812625e-01 -2.2693883471 -0.0987343908  
## [92,] 2.357251e-01 -1.9938205600 1.158120e+00 -1.9973702253 -0.6689373456  
## [93,] 2.333082e+00 -2.3857324311 2.299771e+00 -0.2320391361 0.4609554512  
## [94,] -2.142375e-01 -2.2426557019 1.274046e+00 -1.3941806633 -0.2502094709  
## [95,] -5.335638e-02 -0.9188608853 7.131881e-01 -2.4118183346 1.0836291670  
## [96,] 1.451444e+00 -0.0400557226 1.755915e+00 -2.6107839277 1.1638490168  
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## [112,] -5.521940e-01 0.2533065255 -3.092837e-01 -0.1035155538 1.9235377572  
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## [114,] -2.644428e-01 -0.7894702540 -1.135602e+00 -0.8942160398 2.2354235908  
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## [132,] -5.729012e-01 -0.2746171537 3.223526e-01 -0.2513460373 1.2746426752  
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## [137,] -2.648808e-02 -3.2723478102 1.245844e+00 -0.1378456679 0.0860086973  
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## [141,] -5.345123e-01 2.0559800423 -3.099055e-01 0.3568109776 -0.5342345752  
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## [157,] 7.552661e-01 -3.5157432297 1.097829e+00 -1.3864756412 -0.8590861953  
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## [159,] 5.172318e-01 -2.8918177987 1.547251e+00 -1.2102146768 -1.0921908051  
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## [265,] 8.999635e-02 -1.9885424948 9.359929e-01 -2.2701509944 -0.4646360098  
## [266,] 4.014365e+00 -0.4150259841 1.285675e+00 -0.6629102290 2.4540460643  
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## [268,] -7.546030e-01 -0.9529577538 2.273791e+00 -0.1668990374 1.4836442070  
## [269,] 9.351432e+00 0.7936123298 9.880423e-01 1.8017713519 0.2160135073  
## [270,] -4.599583e-01 -1.7401771333 2.357519e+00 0.2570338187 2.1536121545  
## [271,] -4.675968e-01 -1.4574638304 1.527188e+00 -0.4584705856 -0.4417105231  
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## [274,] 2.332345e-02 -2.3177803101 -2.990389e+00 -1.0153097640 -0.5545237090  
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## [277,] -6.153006e-01 -0.4387782343 1.808182e+00 -1.6430721647 1.1065841622  
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## [321,] -6.405047e-01 -0.4157942679 1.941749e+00 -1.5335873525 1.0084126472  
## [322,] -1.707317e-01 -0.9636561501 1.023257e+00 -2.7872295761 1.3139148265  
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## [328,] 6.879887e-01 -1.0187732458 1.302243e+00 -2.9911347197 0.2881895859  
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## [350,] -6.636383e-01 -0.2296311015 -1.129533e+00 0.2050236501 0.7778674821  
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## [628,] 3.349776e-01 -2.1404439834 -1.509986e-01 1.7569469545 -0.6356702522  
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## [807,] -4.245227e-01 -2.0068005155 1.618830e+00 -0.2152179284 -0.6679646384  
## [808,] -7.015186e-01 -0.6406566754 -9.191411e-01 0.4915997286 1.3979890898  
## [809,] -7.724208e-01 -0.4396722400 2.072235e+00 -0.3149158106 -0.8239810570  
## [810,] -7.725658e-01 -0.6163635768 -6.441293e-01 -0.2138093318 1.6108043488  
## [811,] -5.776627e-01 -1.7190116470 2.043802e+00 -0.1416031885 1.5425031880  
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## [813,] -1.946584e-01 -0.8289428617 1.368471e+00 -1.4267230889 1.3652750849  
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## [815,] -8.110784e-01 -0.0231413476 -8.343536e-01 0.4098759739 1.2864949285  
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## [822,] 1.843784e+00 -2.1949294634 -4.912922e-02 -4.0938321333 -1.3374580297  
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## [824,] -6.891546e-01 2.3694433227 -2.110120e-01 1.3488913305 -0.7575305528  
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## [827,] -3.712369e-01 -1.8561743518 8.286312e-01 -0.9738478882 -0.7168421409  
## [828,] -5.861420e-01 -1.2868838592 2.716674e+00 0.4674709130 1.2220224980  
## [829,] -7.466351e-01 -0.4431076981 2.176238e+00 -0.1706205198 -0.6751648750  
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## [856,] -1.807766e-01 -1.1664018226 1.449852e+00 -1.3456523482 0.9752975332  
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## [1158,] -8.139799e-01 0.1503781643 2.172930e+00 -1.3912628302 1.0151475498  
## [1159,] -8.896304e-01 -0.0288854047 -1.028267e+00 -0.7218666737 1.6274485742  
## [1160,] -9.197782e-01 0.1081745141 -1.347503e+00 -0.4841066654 1.3090254453  
## [1161,] -7.355245e-01 0.6259819886 2.574639e+00 -1.3062131960 1.0822462552  
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## [1164,] 3.835424e-01 -2.6078602218 2.206289e+00 -0.8437419673 -0.3482038396  
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## [1331,] -5.777490e-01 -0.8996772151 -6.003531e-01 1.0688663150 1.2600232771  
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## [1334,] -6.255883e-01 -1.2090836109 2.753627e+00 0.5127364464 1.1084343961  
## [1335,] -6.680272e-01 -1.3249386345 -1.142469e+00 0.7062715112 -0.2273312054  
## [1336,] 8.264531e+00 1.8140488036 -1.348157e+00 1.2240452693 1.0864955222  
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## [1338,] 8.507827e-01 -0.5315176709 -2.601031e+00 -1.2377438591 -0.5095898457  
## [1339,] 7.586080e+00 1.3899723700 1.354777e+00 -0.0107891097 -0.0479671806  
## [1340,] -4.783736e-01 -1.6118673678 1.872478e+00 0.0234749483 -0.4530590448  
## [1341,] -5.183464e-01 -2.0728861983 -1.092747e+00 0.9920245607 -0.1078009754  
## [1342,] -4.946855e-01 0.2325389448 -9.283294e-01 -0.9037793511 1.2728223607  
## [1343,] -4.695361e-01 -1.5805887150 8.877643e-01 -0.9841430674 -0.5906502618  
## [1344,] -6.099938e-01 -1.1549062036 2.783269e+00 0.5520704532 1.1449150730  
## [1345,] -7.238672e-01 -0.8372351837 -7.432008e-01 0.8455697762 2.1722645249  
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## [1347,] -8.370577e-01 0.7913604653 -3.291830e-01 0.5113175912 1.2212533815  
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## [1349,] -6.094266e-01 -1.0450392697 1.621088e+00 -0.4584693084 -0.7456666468  
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## [1353,] -1.358462e+00 2.0427087086 2.773951e-02 0.6874117596 0.6073345987  
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## [1355,] -4.505475e-01 -1.9404991517 -1.227813e+00 0.9024539479 -0.1321207465  
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## [1357,] 5.693873e-03 -0.6656599903 1.304523e+00 -1.6460540536 1.4293198875  
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## [1359,] -8.631722e-01 0.2979034575 2.176362e+00 -0.4389170505 1.0718880405  
## [1360,] 1.135344e-01 2.3454043067 -1.424994e-01 0.0957775374 1.0238983166  
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## [1366,] -6.491873e-01 -0.9856184552 -8.270658e-01 0.8593471758 2.1189405794  
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## [1375,] -1.503837e-01 -2.0364534520 1.633095e+00 -0.2545767858 -0.3517746825  
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## [1383,] -4.452816e-01 -1.7620596065 -1.626043e+00 -0.4913475386 -0.1468091861  
## [1384,] -4.966910e-01 -1.4869635084 9.275887e-01 -0.9809142038 -0.6267167846  
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## [1401,] -1.029975e+00 0.5703326598 -2.422904e-01 1.0768875389 -0.9622128328  
## [1402,] 8.291926e+00 1.7343066301 -1.324981e+00 1.2904946512 1.1400075264  
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## [1404,] -6.015039e-01 -1.1469041824 -1.186324e+00 0.6831793718 -0.4379356826  
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## [1506,] -1.022783e+00 0.2546774135 -2.209875e-01 0.9165569178 0.9667609154  
## [1507,] -4.472201e-01 -2.0451619461 8.107550e-01 0.9721024460 -0.3447679687  
## [1508,] 9.742098e+00 1.1153345406 7.593142e-01 -0.1674017000 -0.1181702015  
## [1509,] -3.321908e-01 -2.0655465907 1.454785e+00 -0.1860691161 -0.4514553660  
## [1510,] -3.519649e-01 -2.0501568772 1.493147e+00 -0.1736886243 -0.4914221872  
## [1511,] -6.264073e-01 -0.9529835555 -4.313455e-01 1.4348082088 -0.1984121015  
## [1512,] -1.548460e-01 -2.9723793992 1.350217e+00 -0.0185037324 -0.3477519793  
## [1513,] -1.200465e+00 1.8988950529 2.475116e+00 -0.5763358943 1.2513802802  
## [1514,] -7.316854e-01 -0.0585527177 1.553653e-01 1.2224504719 1.3980433342  
## [1515,] -4.653892e-01 -1.4599805110 -1.371940e+00 0.3022459360 -0.0830495794  
## [1516,] -4.443790e-01 -1.9507530266 -1.045041e+00 1.1191642786 -0.0264076059  
## [1517,] 8.387887e-01 -0.4432771227 -2.734252e+00 -1.3877893792 -0.6399411666  
## [1518,] -9.040671e-01 -0.4390311393 -5.843023e-01 0.8134738148 1.6475036292  
## [1519,] -8.809715e-01 -0.3314953173 -1.028368e+00 0.4824134785 -1.0620330918  
## [1520,] -6.294937e-01 -1.1324948735 2.713941e+00 0.4805789149 1.1018063937  
## [1521,] -7.346458e-01 -0.7765902530 -8.791920e-01 0.6944655486 2.0625027589  
## [1522,] -5.945464e-01 -1.3154986960 2.690988e+00 0.5105352799 1.1516613643  
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## [1524,] -4.881877e-01 -1.7522202002 -5.399475e-01 1.5335643517 -0.1081919207  
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## [1532,] 4.849555e+00 -0.5384752803 1.373202e+00 -0.6239021748 0.7551272843  
## [1533,] -7.894356e-01 -0.2691238597 3.279346e-01 1.2993953165 1.1907916256  
## [1534,] -6.379950e-01 -1.0227430578 -6.893488e-01 1.0450706851 2.2265224479  
## [1535,] -8.496806e-01 0.8095435534 2.684430e+00 -0.3128101385 0.9648619972  
## [1536,] -6.852238e-01 -0.8703431374 -8.308245e-01 0.8298610280 2.0245539911  
## [1537,] -6.710485e-01 -0.9555802429 -6.252721e-01 1.0699117500 2.1519448220  
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## [1559,] 2.686577e+00 -2.5310902756 1.401966e+00 0.1916176255 -1.9654493542  
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## [1562,] -6.680593e-01 -0.9790573581 -8.270374e-01 0.8628802098 2.0539743161  
## [1563,] -1.150822e+00 0.8198480510 -6.669950e-01 0.2236301448 0.7296618593  
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## [1566,] -3.290529e-01 -2.0527463596 1.522736e+00 -0.1063869149 -0.4415146356  
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## [1575,] -4.451387e-01 -1.6300879873 -9.882647e-01 1.1144939837 -0.1539081249  
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## [1602,] -1.022769e+00 -0.0707385070 -1.689371e+00 -0.5887367128 0.5191094459  
## [1603,] -7.459436e-01 -0.0172026506 1.442512e-01 1.2059941886 1.3609203828  
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## [1625,] -2.503662e-01 -1.4454460345 -1.171159e+00 0.6802065871 -0.2463467274  
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## [1681,] -8.771929e-01 -0.7198966060 -3.954781e-01 1.0428410698 1.9944768913  
## [1682,] -2.423712e-01 -2.3840352506 1.416913e+00 -0.1129565016 -0.4819008907  
## [1683,] -7.866303e-01 0.4685979441 1.974965e+00 -0.9646096972 0.9477674133  
## [1684,] -6.382225e-01 -1.7402107205 -6.718698e-01 1.1465881990 2.0832748297  
## [1685,] -1.367724e+00 2.5412215013 3.468944e+00 0.1732675512 -0.0676900601  
## [1686,] -8.003195e-01 -0.3366561253 -9.180075e-01 0.2992969983 -0.9862836286  
## [1687,] -6.873068e-01 0.0247802925 2.025034e+00 -0.4611310662 0.7091803547  
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## [1706,] -6.436296e-01 -0.9625432971 -3.586507e-01 0.9990816293 2.0665160620  
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## [1711,] -3.312918e-01 0.5240330463 -1.492700e+00 -1.3361479385 1.5346340432  
## [1712,] -1.230758e-01 -1.2279506489 -1.682647e+00 -1.5018312946 -0.1928244995  
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## [1733,] 3.353218e-01 -1.8500518894 -1.600525e+00 0.0223987559 -1.3277040224  
## [1734,] -5.491480e-01 -1.2533011140 9.699488e-01 -1.9709741929 -1.2106579106  
## [1735,] -6.582876e-01 -0.6519919702 -1.470163e+00 -0.6859937681 -0.6876277894  
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## [1858,] -1.412670e+00 2.4833081130 3.492316e-01 0.8912956456 0.8478577780  
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## [1860,] -7.173355e-01 -1.1739433875 -9.852909e-01 0.8450863386 -0.4076053800  
## [1861,] 7.134776e-01 -0.5516010832 -2.554787e+00 -0.8723189426 -0.6437846079  
## [1862,] -4.505150e-01 -1.6020254542 -1.255247e+00 0.4738569990 -0.5679091536  
## [1863,] 1.207658e+00 -2.5339858901 2.501418e+00 1.2142281644 -2.4748273680  
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## [1865,] -6.345269e-01 -1.1467809890 2.747981e+00 0.5408175793 1.0677670089  
## [1866,] -8.536525e-01 -0.1883012953 -1.435998e+00 0.1382065900 -0.6571665479  
## [1867,] -1.071192e+00 1.3985346453 -2.066999e-01 0.4129097461 1.1653407370  
## [1868,] -3.883178e-01 -2.0292500783 1.346385e+00 -0.7353789153 -0.5937611399  
## [1869,] -2.580037e-01 0.8974896902 1.766411e+00 -3.1249274830 1.0918700021  
## [1870,] -1.256014e-01 3.2020880960 -5.389089e-01 -0.2119787594 0.1292269610  
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## [1873,] -4.597154e-01 -1.2385423798 -6.470354e-01 1.0065044373 -0.3788841101  
## [1874,] -7.179253e-01 -0.2718971161 1.985028e+00 -0.3311426405 1.4313711204  
## [1875,] -5.656652e-01 -1.3094157587 -5.642046e-01 1.4027962990 -0.3877612480  
## [1876,] -7.183007e-01 -0.1305344201 2.068526e+00 -0.3077449629 0.9740624970  
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## [1884,] -2.781945e-01 -0.5876558360 -1.053100e+00 -2.0067899094 1.9992182085  
## [1885,] -8.594479e-01 0.4849862999 -9.562843e-01 -0.7315518330 0.7814022018  
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## [1900,] -1.303724e+00 1.5033131501 -2.307881e-01 0.5232006412 0.8362272879  
## [1901,] -9.547976e-01 0.5829538056 -1.283872e+00 -0.1725413958 0.7483115241  
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## [1908,] 9.935718e-01 0.1501930700 -1.929916e+00 -1.4297376767 -0.6263832951  
## [1909,] -7.300884e-01 -0.1620075432 1.000667e+00 0.5572445776 1.1353642526  
## [1910,] -6.289515e-01 -0.9452027812 -4.455298e-01 1.4605595476 -0.2241752548  
## [1911,] -9.267442e-01 0.5963426633 -4.477132e-01 0.7909890953 0.5330049056  
## [1912,] 8.203421e-01 -0.4372698947 -2.692381e+00 -1.3334194794 -0.7057485519  
## [1913,] -1.187178e-01 -2.9167630465 7.201612e-01 -1.5841139319 -0.4782472733  
## [1914,] -3.145557e-01 -1.1756975010 -2.669645e+00 -1.9177046050 -0.8744625840  
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## [1916,] -2.042384e-01 -1.4597429576 1.449063e+00 -1.3534485677 -0.8678065555  
## [1917,] -3.181868e-01 -1.4614296335 1.578091e+00 -1.3125578562 -0.7721950672  
## [1918,] -9.725148e-01 0.6272797247 2.087201e+00 -0.6557843047 0.2722239235  
## [1919,] -8.665027e-01 -0.1569443695 -1.233065e+00 0.3385724489 -0.5959767556  
## [1920,] -5.837280e-01 -1.1479615830 1.308848e+00 -0.6736798104 -1.1177139986  
## [1921,] -4.865931e-01 -2.1142066326 1.412813e+00 -0.3430969105 -0.6110587758  
## [1922,] -8.214936e-01 -0.4875052356 -1.581591e+00 0.0164663982 -1.0839254032  
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## [1932,] -8.949841e-01 0.5338448215 -3.965932e-01 0.8815937077 0.5923810177  
## [1933,] -9.112812e-01 -0.5146661389 -6.272226e-01 0.8208365537 1.9183922894  
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## [1940,] -8.721522e-01 0.0316159421 1.254179e+00 0.6943755223 1.3472376666  
## [1941,] -5.552836e-01 -1.5864349212 -1.391427e+00 0.6727209974 -0.4967331104  
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## [1943,] -2.377091e-01 -1.4521058863 -1.319275e+00 0.5615782486 -0.3345872260  
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## [1947,] -5.669675e-01 -1.2797036384 -1.465834e+00 0.5066697904 -0.5997795223  
## [1948,] -7.050328e-02 3.4057346694 -6.591886e-01 -0.7023714494 0.0805779502  
## [1949,] -9.713111e-01 0.9357537188 2.435764e+00 -0.3266978479 0.6118623021  
## [1950,] -4.881686e-01 -2.1536605932 1.442820e+00 -0.3149478719 -0.6454636804  
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## [1952,] -7.794153e-01 -1.1377492409 2.028002e+00 -0.2607588845 1.2089441550  
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## [1961,] 9.744148e+00 1.1257898783 7.784294e-01 -0.1008194538 -0.1423601355  
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## [1963,] -5.852690e-01 -1.4659439836 -7.226593e-01 1.2942801161 -0.1956512080  
## [1964,] -9.288043e-01 0.7830145334 -1.744488e+00 -1.0410027754 0.5374909966  
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## [1967,] 7.569844e+00 1.6922870410 1.697677e+00 -0.8481513227 1.8929688196  
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## [1970,] -9.488447e-01 -0.3613200347 -5.586152e-01 0.8317059134 1.8476752179  
## [1971,] -5.057580e-01 -1.9409604432 2.192825e+00 0.2390702091 1.8697903150  
## [1972,] -4.730295e-01 -1.6713491837 -8.285776e-01 1.3019912926 -0.1053983182  
## [1973,] -3.915526e-01 -2.0504644863 1.351373e+00 -0.7246368082 -0.6216797817  
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## [1992,] -1.566132e-01 -2.5641351752 7.879882e-01 -0.5866427577 -0.4924768700  
## [1993,] -1.233862e+00 1.9360516519 2.457972e+00 -0.5808218289 1.1641988177  
## [1994,] -6.998816e-01 -0.3210858980 1.939827e+00 -0.3381614474 1.4460776809  
## [1995,] -7.099594e-01 0.0750817565 2.068762e+00 -0.4118059902 0.6680067979  
## [1996,] -7.214687e-01 -0.1149571327 2.058652e+00 -0.3110531771 0.9630369184  
## [1997,] -5.968727e-01 -1.1127696731 1.421712e+00 -0.5636050417 -1.0891433051  
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## [1999,] -8.925295e-01 -0.4564187799 -4.161032e-01 1.0565353989 1.7413222246  
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## [2001,] -5.080817e-01 -1.5121779385 -2.130653e+00 -1.0735684101 -0.6771788955  
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## [2005,] -1.312551e+00 1.9240351010 -6.794519e-01 -0.0416431303 0.3966683821  
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## [2008,] -2.517109e-01 -1.4879593024 -1.234724e+00 0.6506361063 -0.2742751166  
## [2009,] -5.705192e-01 -1.4538790978 -1.046474e+00 0.9640290087 -0.3155385878  
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## [2016,] -3.936624e-01 -1.5521876541 1.620334e+00 -0.9157060626 -0.7538717169  
## [2017,] -4.258990e-01 -1.5251981773 -9.517958e-01 0.9402909087 1.6769301993  
## [2018,] -3.095456e-01 -1.8212631889 1.221002e+00 -1.3441895721 -0.5335845790  
## [2019,] 2.601427e-01 -2.0826635557 1.546399e+00 -0.3757763728 -0.3812054328  
## [2020,] 8.396518e-01 -0.4813488311 -2.732283e+00 -1.3366191656 -0.6992710686  
## [2021,] -7.293689e-01 -0.0495733178 2.474289e+00 0.0998116298 1.1687348062  
## [2022,] 3.812227e-01 -2.6068619295 2.716803e+00 0.7450247092 -0.1596864675  
## [2023,] -6.606503e-01 -1.0556707452 -1.196980e+00 0.6638927315 -0.5878348528  
## [2024,] -6.980992e-01 -0.9227226591 -1.028780e+00 0.8274024411 -0.5688716760  
## [2025,] -7.977853e-01 -0.5771843028 -1.119273e+00 0.5505945618 -0.8471828904  
## [2026,] -5.692121e-01 -1.3600174440 2.044917e+00 -0.0770461755 0.9801760504  
## [2027,] -7.406185e-01 -0.0513021372 2.485520e+00 0.1013431489 1.1513628365  
## [2028,] -9.135301e-01 -0.2919560844 1.812049e-01 1.5430144900 1.3280636317  
## [2029,] -5.516796e-01 -1.6365872230 -1.398635e+00 0.6469603048 -0.3042173520  
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## [2035,] -7.514200e-01 0.6126958196 2.492413e+00 -0.8059972851 0.8176875413  
## [2036,] -5.377678e-01 -1.8481206869 2.174247e+00 0.1832476239 1.8017504685  
## [2037,] -1.123232e+00 0.7683545013 -1.212735e+00 0.0203379094 -1.1995627461  
## [2038,] -5.588587e-01 -0.1943811785 -1.358540e+00 -1.6625866019 -0.4289120748  
## [2039,] -1.756357e-01 -1.9606650820 7.743770e-01 -2.0937398682 -0.5708429336  
## [2040,] -5.532409e-01 -0.7856131252 1.645720e+00 -1.5307012873 0.8268490903  
## [2041,] -7.469590e-01 -0.6187997405 -3.590751e-01 0.1812096057 1.3720412253  
## [2042,] 4.184786e-01 -1.6945788931 1.712172e+00 -0.4923503495 -1.7525576316  
## [2043,] -6.812008e-01 -0.4280556177 2.301815e+00 -1.0102212803 0.6841957623  
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## [2045,] -7.449336e-01 -0.6633387060 -7.627680e-01 -0.6272595005 1.1188171362  
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## [2053,] -1.254404e+00 3.4271095742 -7.964931e-01 -2.0348360370 0.2784258335  
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## [2057,] -1.485211e-01 -2.8434166834 1.080236e+00 -0.2661270455 -0.3972664950  
## [2058,] -1.427960e+00 2.4413877145 2.956058e-01 0.8420927284 0.8059175757  
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## [2064,] -9.611101e-01 0.8949066127 2.893250e+00 0.2285371436 0.5732469025  
## [2065,] -5.096523e-01 -1.1437889071 6.271320e-01 0.6751048143 -0.4492998350  
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## [2068,] -6.522903e-01 -1.2502384033 -7.047640e-01 1.1961634885 -0.3745249586  
## [2069,] -1.032425e+00 0.1726971449 -7.777100e-02 1.1211728266 0.9847389971  
## [2070,] -7.321157e-01 -0.1051375301 2.253408e+00 -0.1288085282 1.0621487245  
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## [2086,] -1.990500e-01 -1.4524338731 1.255035e+00 -1.5410761324 -0.9612205689  
## [2087,] 2.165296e-01 -1.7697397351 -1.237834e+00 1.3015058235 -1.2972067946  
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## [2089,] 2.610226e+00 -1.9404618437 1.643351e+00 2.1011450179 0.8183257383  
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## [2099,] -6.953646e-01 -0.8831719997 -1.236456e+00 0.6152007585 -0.6429220502  
## [2100,] -7.050022e-01 -0.8470795422 -9.918918e-01 0.8536679515 -0.5917214628  
## [2101,] -6.691758e-01 -0.5403624669 -1.157413e+00 0.6196457341 -0.5956949260  
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## [2109,] -5.264042e-01 -1.1062160319 6.364966e-01 0.6701456504 -0.4681029097  
## [2110,] -6.902446e-01 -0.9178937322 -1.046155e+00 0.8257986074 -0.5610496449  
## [2111,] -8.582188e-01 0.5613444018 1.358952e-01 0.6142415561 0.9105849002  
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## [2114,] 2.367425e+00 -1.9890698124 1.817138e+00 2.4741656397 0.8064836906  
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## [2116,] -6.674392e-01 -0.5859622731 2.432390e-01 1.8576116632 1.7008673234  
## [2117,] -1.085952e+00 0.7987489069 -7.424329e-01 0.3026004212 1.0727732092  
## [2118,] -4.926414e-01 -1.1459918595 1.420861e+00 -1.6386384963 0.7297656830  
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## [2137,] -1.502675e-02 3.2771108428 -6.285700e-01 -0.5829828173 0.1577620042  
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## [2144,] -1.243373e+00 1.3766384759 -2.824355e-01 -0.4016679963 0.5628451342  
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## [2160,] -1.975149e-01 -1.4133289713 1.282659e+00 -1.5039770237 -0.9422542859  
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## [2162,] -1.018833e+00 0.0642245715 -2.031843e-01 1.0844248644 1.4464375687  
## [2163,] -5.461846e-01 -1.0008041364 6.017340e-01 0.6110971575 -0.5164795129  
## [2164,] -8.139689e-01 -0.5594725797 -1.182200e+00 0.4817049550 -0.8728676585  
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## [2198,] -8.177233e-01 -0.4143755293 1.852537e+00 -0.5631573793 1.3419331982  
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## [2212,] -1.097257e+00 0.5440316185 -1.044019e+00 0.0403275576 1.3026584925  
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## [2229,] -7.835632e-01 0.1316426882 -7.098634e-01 -0.6214793372 1.3936819521  
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## [2768,] -5.991525e-01 -1.4008680965 -9.936863e-01 1.0512815210 -0.4025003905  
## [2769,] -9.106484e-01 0.0144341781 -5.981898e-01 0.9631089937 -1.0734236192  
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## [2914,] -5.171387e-01 1.0594431572 -1.500137e+00 -1.4717099898 1.6340403671  
## [2915,] -2.231095e-01 -0.7677567308 -1.200310e+00 0.3439031284 -0.4236260187  
## [2916,] -9.299304e-01 0.4332613093 2.543802e+00 0.0232017469 0.5663598507  
## [2917,] 6.866883e-01 -3.2406366118 1.497289e+00 -0.2014515322 -1.2674614772  
## [2918,] 3.515966e-01 -1.4898245427 2.034341e+00 0.8088592688 -1.7990318071  
## [2919,] -1.084888e+00 -0.3336075406 -1.132100e-01 1.2199691274 1.5156062845  
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## [2925,] -4.828308e-01 -1.8970557440 -1.581039e+00 -0.3293581594 -0.3656857415  
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## [2930,] -7.905893e-01 -0.4201689915 -5.356814e-01 1.0943447392 2.0546040736  
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## [2937,] -8.261286e-01 -0.2103589444 -3.720292e-01 1.2154681714 2.0267922546  
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## [2942,] -6.298771e-01 -0.6455856425 -1.029087e+00 0.6577519078 1.0969180494  
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## [2965,] -2.916724e-01 -1.9546991821 1.700144e+00 -0.2019343138 -0.5470273675  
## [2966,] -1.379212e+00 1.3078629036 -6.810540e-01 0.7254461227 0.6484042706  
## [2967,] -4.911944e-02 1.8972527788 -6.423039e-01 0.0156821216 1.2324015781  
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## [2969,] -1.180923e+00 1.2267960561 -6.737662e-01 0.5216157525 -0.9745868543  
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## [3002,] -7.502512e-01 -0.4419361824 -5.741505e-01 1.1190840447 1.9960803174  
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## [3618,] -7.641084e-01 0.2859424046 3.224784e+00 -0.3889837102 -1.0260564936  
## [3619,] -7.797184e-01 -0.2695975848 2.331213e+00 0.0934273802 0.7795339660  
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## [3629,] -5.773302e-01 1.6224059617 -9.813997e-01 -1.3641366107 -1.6322805410  
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## [33,] 3.409000e-01 0.7392342729 9.209652e-01 1.5589481551 -9.610712e-01  
## [34,] 2.160784e-01 0.0515202156 9.272710e-01 -0.6169752526 -5.216201e-01  
## [35,] 7.419420e-01 -0.6239515869 -5.520287e-01 0.4277646805 7.924339e-01  
## [36,] 7.096492e-01 -0.6456011568 -5.153064e-01 0.4901366056 8.024240e-01  
## [37,] 4.053037e-01 0.7775177950 1.929374e-01 1.6992211299 -5.207303e-01  
## [38,] 2.335500e-01 -0.6636731701 2.985929e-01 -2.0521076420 6.926054e-01  
## [39,] 6.656909e-01 -0.7559321407 -5.798501e-01 0.5122333779 6.493299e-01  
## [40,] -2.060801e-01 -0.4039503326 1.493458e+00 0.1410350926 4.252554e-01  
## [41,] 1.042591e+00 -0.4340541110 -3.349444e-01 -0.1728282460 -2.259946e-01  
## [42,] 1.184182e+00 -0.4802341808 -1.213801e-01 0.1726372314 -1.510570e-01  
## [43,] -3.531178e-01 -1.2367092449 -5.572711e-01 0.1534853210 8.873804e-01  
## [44,] -7.467314e-01 -0.4128773251 -3.441977e-01 -1.2063236392 1.460628e-01  
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## [46,] 1.010796e+00 -0.4720268511 -1.044718e-01 -0.6088753383 3.424572e-01  
## [47,] 1.160597e-01 -0.0554522949 2.465611e+00 -0.8086846942 -3.789709e-02  
## [48,] -2.759926e-01 -0.2662729285 -6.000464e-01 -0.5718157256 -1.007077e+00  
## [49,] 2.708623e-01 0.2897316157 -5.690607e-01 -0.6242260269 -3.201439e-01  
## [50,] -8.625290e-01 -1.0966796006 1.122394e+00 0.1410883391 -3.532475e-01  
## [51,] -3.628412e-01 -0.5754660127 1.626331e-02 -0.6371951076 3.612474e-01  
## [52,] -4.710278e-01 -1.5563792359 1.710565e+00 -1.4530877694 -7.137108e-01  
## [53,] 5.652136e-01 0.3106260987 -1.165355e+00 -0.0906922473 -1.952542e-01  
## [54,] -9.131481e-01 0.2715018419 4.947069e-01 0.0845718996 -2.001567e+00  
## [55,] 4.643834e-01 -0.6903353419 -8.542862e-02 -1.8216238293 -6.254747e-01  
## [56,] -1.022364e-01 -0.6273638118 6.719544e-01 -0.4400462376 8.966650e-01  
## [57,] 1.215821e-01 -0.3881023048 -3.187644e-01 -0.3784156786 -1.066255e+00  
## [58,] 6.856514e-02 -0.0815543647 -3.224024e+00 2.2783189647 2.965324e+00  
## [59,] -2.208139e+00 0.7706706877 8.649941e-01 2.4490308657 4.225454e-01  
## [60,] 1.277817e-01 0.2093726987 -2.336499e+00 -1.0271408947 7.611201e-01  
## [61,] -8.244203e-03 -0.8868861387 3.323386e-01 -0.6580920529 -3.153262e-01  
## [62,] -9.246170e-01 -0.5863769567 -3.968880e-02 -0.2437582944 -1.465797e-01  
## [63,] -6.975923e-01 -0.5174673034 -3.615826e-01 -0.2423708375 -3.034840e-01  
## [64,] -2.309836e+00 -0.9073768526 1.103643e+00 0.1699668082 -7.519770e-01  
## [65,] 9.011805e-02 -0.5776682764 4.289138e-01 -0.3100569187 -3.647183e-01  
## [66,] 7.013733e-03 -0.4016967151 6.653463e-01 -0.7346867228 -4.073926e-01  
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## [77,] -1.202681e-01 -0.3146971910 1.548977e+00 -0.3116888280 5.570969e-01  
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## [83,] 1.435608e+00 -0.3809378547 7.235513e-01 -0.3168653045 6.107931e-01  
## [84,] -2.349805e-01 -0.8260469259 -8.613152e-02 0.4438976919 -7.943652e-01  
## [85,] 1.033814e-01 0.9403595293 9.702479e-01 1.3808848670 -2.669524e+00  
## [86,] -8.340278e-01 -0.3706934439 -7.067954e-02 -0.8083973826 2.797585e-01  
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## [88,] -4.006396e-01 -0.5829844202 -5.414389e-01 -0.7209254258 2.769271e-01  
## [89,] -3.124479e-01 -0.7959395194 -1.178645e-01 -1.7479057102 -1.574419e+00  
## [90,] 1.735772e-01 -0.5214180977 1.062525e+00 -0.8676522673 3.019747e-01  
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## [92,] 4.784191e-01 -0.1775149870 3.031526e-01 -0.1919274688 3.253951e-01  
## [93,] -1.560821e-02 -1.5888746086 1.258687e+00 -0.7404531344 6.654071e-02  
## [94,] -4.604973e-01 -0.7773428420 -4.954161e-01 -0.1956969640 1.840189e-01  
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## [102,] 4.666600e-01 1.6690564931 -6.894498e-01 -1.2183130178 1.312203e-02  
## [103,] 5.755111e-02 0.2312502403 9.705660e-01 0.6794669726 1.214222e+00  
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## [105,] -2.790244e+00 0.9060190551 7.387529e-01 1.3805803189 2.356762e-01  
## [106,] -3.292831e-01 0.8823015558 -5.915807e-01 0.2060352245 -6.621117e-01  
## [107,] -1.518472e-01 -0.7752404693 -1.330755e+00 0.0772560088 1.516252e-02  
## [108,] -8.028719e-02 0.1763268368 5.664325e-01 0.6062481037 9.184331e-01  
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## [118,] -1.370014e-01 -0.6872898558 -1.260049e+00 0.1532739609 1.202613e-01  
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## [125,] 6.963215e-01 0.1279068096 8.802132e-02 0.6859143393 -8.721841e-02  
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## [130,] 4.439277e-01 0.3554059907 -3.894104e-01 -0.2392924818 3.831460e-02  
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## [136,] 2.790418e-01 -0.3104488792 -1.045533e+00 -0.9456250794 2.336899e-01  
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## [138,] -1.540477e-01 -0.6928421754 -1.272759e+00 0.1641860653 9.416056e-02  
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## [140,] -3.822611e-01 -1.4505766813 1.783685e+00 -1.3337312156 -8.626156e-01  
## [141,] -1.627200e+00 -0.4877309118 9.199349e-01 1.2591435516 -3.746599e-01  
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## [143,] 3.288014e-01 1.6091483249 -1.018795e+00 -1.2617620331 -2.041083e-01  
## [144,] -4.385369e-02 -0.9963143027 1.047773e+00 -1.0211487363 -3.783998e-01  
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## [146,] 4.867838e-02 1.1123200243 -1.174038e+00 0.7422013580 -3.459861e-01  
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## [148,] -2.437884e+00 1.9283008123 -1.460511e-02 -3.4364350743 -1.593200e+00  
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## [155,] -2.204307e+00 -1.5979362140 6.775664e-01 0.3946128205 3.582730e-01  
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## [163,] -3.583412e-01 -0.5205148176 7.505794e-01 0.0792668505 1.717648e-01  
## [164,] -3.169611e+00 2.8625856083 1.695078e+00 -3.6717603039 1.102068e+00  
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## [208,] 1.473428e-01 -0.3579542751 -6.371540e-01 -0.0391917928 8.345822e-01  
## [209,] -1.216473e-01 -0.7352196013 -1.346707e+00 0.0254975107 3.436995e-03  
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## [212,] 7.880570e-01 1.6412524031 -5.458264e-01 1.4322578807 5.510149e-01  
## [213,] 5.726252e-01 0.0426065640 3.235793e+00 0.5085100951 1.063600e+00  
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## [215,] -6.930121e-01 -1.4488858148 1.292239e+00 1.2538567757 -4.104622e-01  
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## [225,] -1.932245e-01 -1.0468381299 4.754446e-01 1.6498583812 -1.207193e-01  
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## [229,] -1.491997e-01 0.2091684551 6.095112e-01 0.7890822797 8.835013e-01  
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## [231,] 1.804853e+00 -0.7132989956 -1.910475e-01 0.6343309212 -2.958637e-01  
## [232,] 9.329056e-01 1.6225423972 -6.356812e-01 1.2786669461 6.278771e-01  
## [233,] -2.877633e+00 0.9854338056 7.281579e-01 1.6460455304 -2.188859e-01  
## [234,] -3.741220e-03 -0.0919543086 5.656091e-01 -0.9401364896 -8.897040e-01  
## [235,] 6.305065e-01 0.5285939192 2.683716e-02 -0.2109568125 4.268381e-01  
## [236,] -2.234994e+00 1.5390224611 4.203629e-02 1.7228220999 7.636094e-01  
## [237,] -2.032250e-01 -0.8184302034 -1.269137e+00 0.1007131053 -4.910802e-02  
## [238,] 1.561217e-01 -0.4380095260 1.173227e+00 -0.8824798848 2.761110e-01  
## [239,] 6.827964e-02 -0.3593851588 1.349300e+00 0.0698324598 -6.844580e-01  
## [240,] 2.488241e-02 1.1693803187 -1.092268e+00 0.7419660180 -3.000874e-01  
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## [244,] -1.210123e-01 0.1264781124 5.392105e-01 0.7937149765 7.969968e-01  
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## [252,] -1.889700e+00 0.1293540149 1.246478e-01 0.2637904319 1.579661e+00  
## [253,] -1.628077e+00 1.4520124850 1.854328e-01 2.6531871918 -4.919881e-01  
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## [258,] -1.572821e+00 1.6010156490 2.001974e-01 2.7505383704 -3.466843e-01  
## [259,] 3.101485e-01 0.2751091258 -1.848432e-01 -0.5236419684 -2.783268e-02  
## [260,] -1.565671e-01 0.2297980177 6.660991e-01 0.8691072539 9.282284e-01  
## [261,] 4.048617e-02 0.8478725585 3.423406e-01 0.0365067364 4.505328e-02  
## [262,] 1.233605e-01 1.0593678718 4.487399e-02 0.0986310593 -3.771843e-01  
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## [264,] -1.430953e+00 -0.2489246106 5.301735e-01 0.9854251670 -1.077887e+00  
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## [269,] 1.352447e-01 -0.4955718866 1.162820e+00 -0.8914080722 1.980100e-01  
## [270,] -1.916085e-01 0.1301436604 6.352981e-01 0.6655842383 8.012834e-01  
## [271,] -1.926056e-01 -0.4712548084 -1.107475e+00 0.0906091697 5.266600e-01  
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## [280,] -1.894433e-01 -0.7079141670 -1.250057e+00 0.1254253246 9.029595e-03  
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## [285,] -4.930160e-02 -0.9890345002 1.056890e+00 -1.0251322075 -4.169733e-01  
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## [287,] 1.349633e+00 -0.4572297330 -6.206023e-02 -0.9020477664 7.928558e-01  
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## [293,] 4.033979e-02 -0.9368250148 1.101606e+00 -0.8991183527 -5.204093e-01  
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## [295,] 1.845983e-02 0.4186314470 -1.034665e+00 0.3604122104 9.449147e-01  
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## [387,] -3.410204e-01 -0.0106727817 -4.635715e-01 -0.1625451310 -1.323693e+00  
## [388,] -2.496501e-01 -0.4511176792 -1.112580e+00 0.1870623237 4.278116e-01  
## [389,] -2.258529e+00 1.5921371369 1.169052e-01 1.7269712771 8.097481e-01  
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## [391,] -3.193877e-02 0.3111831793 2.293480e-01 -0.8924304252 1.068099e+00  
## [392,] 4.911682e-01 1.0388355031 -1.720821e+00 0.7700734031 7.620923e-03  
## [393,] -2.472561e+00 1.9033527872 -1.424052e-02 -3.4106806285 -1.755591e+00  
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## [396,] 8.292431e-01 1.4555902688 -6.553958e-01 1.3310804732 3.764257e-01  
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## [408,] -8.786915e-01 -1.2577719450 2.408452e+00 0.0434045048 6.298317e-01  
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## [411,] -9.979022e-03 -0.9463129163 8.540664e-01 -1.6274848594 1.042746e+00  
## [412,] -7.194717e-01 -0.4872387322 2.404529e+00 -0.9144213041 1.161972e-01  
## [413,] -5.335745e-01 -0.7775806626 1.294087e+00 0.4177338197 8.228310e-01  
## [414,] 1.481026e-01 -0.4394659559 1.182408e+00 -0.8820505945 2.204281e-01  
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## [419,] 8.140029e-01 0.1274283344 8.568413e-01 -0.0534147577 1.727643e+00  
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## [437,] 2.123795e-01 0.4143307848 -3.385099e-01 0.2753912049 -1.367880e+00  
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## [464,] 1.294814e-01 -0.4364297711 2.461580e+00 -0.1637943196 1.500887e+00  
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## [478,] 5.341393e-01 0.3753894888 -1.132231e+00 0.0022166232 -3.707822e-01  
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## [757,] -5.320817e-01 0.1940982108 -4.588154e-01 0.5552331846 9.375560e-01  
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## [791,] 2.455834e+00 -0.0142533936 -7.587401e-01 -0.1131948048 -1.443205e+00  
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## [808,] -1.975956e-01 0.2349551395 -6.880479e-01 -0.2067061261 4.431560e-03  
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## [828,] -3.250717e-01 0.6835830119 4.073772e-01 0.5266862968 -8.394141e-01  
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## [910,] 5.522853e-01 0.4527220017 -8.930951e-01 -0.3098529355 1.411422e+00  
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## [912,] -2.388649e-01 0.7054062248 -5.807565e-01 -0.8255877316 1.108639e+00  
## [913,] 9.161394e-02 -0.0157261603 -7.423136e-01 -0.4806801767 6.623328e-01  
## [914,] -2.475179e+00 1.4874172431 5.074745e-02 2.2738489191 -1.578671e-02  
## [915,] -1.655590e-01 -0.2299702117 1.105415e-01 -0.4674439282 3.554352e-01  
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## [917,] -4.575228e-02 -0.4037489950 1.595159e-01 0.0510672799 -1.369584e+00  
## [918,] -4.007234e-01 -0.5987436809 1.550423e-01 -0.7130735569 8.800667e-01  
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## [921,] -3.327810e-01 -0.1224032405 1.711403e-01 -1.0125191672 -1.286184e+00  
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## [924,] -2.895558e-01 -1.1670819740 7.978640e-01 -0.1748266964 1.795522e-01  
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## [928,] -1.931845e-01 -0.1865980422 -9.813082e-01 0.3072881517 3.516170e-01  
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## [1086,] -2.272031e-01 -0.2684780138 -1.039191e+00 -0.2548261377 5.728457e-01  
## [1087,] 1.240499e+00 0.6693530551 5.031634e-01 0.3402070349 7.682949e-03  
## [1088,] 4.073520e-01 1.2861800512 -4.317573e-01 1.9550058122 8.175060e-01  
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## [1107,] -8.413692e-02 -0.1518551983 -2.669147e-01 0.8582541669 -3.768143e-02  
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## [1134,] -4.126256e-01 -0.6849582090 1.762513e+00 -0.0968741324 1.093953e+00  
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## [1182,] -3.345604e+00 -3.9240826021 -2.189943e+00 0.7228031979 2.535063e+00  
## [1183,] -1.855852e-03 -1.2145841163 1.409240e+00 0.2335069233 4.447543e-01  
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## [1208,] -1.232409e-01 0.1617981725 1.030966e+00 -0.3694583208 -4.540949e-01  
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## [1259,] -4.133354e-01 -0.2914586483 -9.654426e-01 0.7479564812 -4.363485e-01  
## [1260,] -3.008048e+00 2.7111379722 -6.187313e-04 -2.5379225171 1.143175e-01  
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## [1262,] -7.449313e-01 0.1008392942 1.765493e-01 0.5825350949 -2.144664e-01  
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## [1277,] 2.459438e-01 -0.5169978851 4.230873e-02 -0.6519933616 2.948055e-01  
## [1278,] 5.956256e-03 -0.0945567560 -7.249899e-01 -0.5464802670 9.166881e-01  
## [1279,] 2.243913e-01 -0.8755113807 1.030435e+00 -0.4201389005 7.103008e-01  
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## [1282,] -7.698246e-01 0.0154944210 1.577611e-01 0.5933536082 -3.343767e-01  
## [1283,] -3.711937e-01 -0.1845375915 -1.793925e-01 -0.1314488870 9.828055e-01  
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## [1306,] -2.928539e-01 1.3021833682 1.016852e+00 -0.5377710507 -1.156293e-01  
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## [1319,] -1.360082e-03 0.2260068188 -1.140425e+00 -1.0567790431 7.279051e-01  
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## [1422,] -2.140133e+00 -1.4240582864 -3.464462e-01 0.9757328767 6.784235e-01  
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## [1427,] 1.740589e-01 -0.3780520260 1.225744e+00 -0.7832716408 1.833533e-01  
## [1428,] 1.954105e-01 0.1644102738 -1.135544e+00 -0.2571227402 7.164402e-01  
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## [1432,] -3.784953e-01 1.0934389543 5.558890e-01 -0.7037101167 -4.212596e-01  
## [1433,] -1.949546e-01 -0.1576790533 -9.603820e-01 -0.4808218634 5.109662e-01  
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## [1439,] -2.555409e-01 0.0727501136 -5.798996e-01 -0.0698969234 3.841209e-01  
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## [1447,] -4.475279e-01 -0.5539151999 1.759845e-02 0.4531429722 6.003130e-01  
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## [1450,] -1.225081e-01 0.3004228455 1.192393e+00 -0.4640047174 -2.573637e-01  
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## [1452,] -2.899621e-01 -0.0754024561 -1.506954e+00 -0.4073134921 1.792092e-02  
## [1453,] 1.296731e+00 1.2454874480 8.310245e-02 -0.6972186701 7.386707e-02  
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## [1477,] -1.902507e-01 -0.6602664005 5.081499e-01 0.2437815305 7.546787e-01  
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## [1501,] 1.058211e-01 -0.2508499891 -1.915792e-01 -0.3860650807 6.448498e-01  
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## [1509,] -1.811318e-01 -0.2593182423 -1.015701e+00 0.2811121740 2.298150e-01  
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## [1515,] -3.079395e-01 -0.0004499418 -1.504087e+00 -0.3825700914 -5.290429e-04  
## [1516,] -2.804478e-01 0.2183348274 -1.131496e+00 0.2874814119 3.757589e-01  
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## [1527,] 5.485881e-01 0.4541242562 -1.213314e+00 1.6794402318 -6.247236e-01  
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## [1539,] -2.361844e+00 1.8314359608 2.315750e-01 2.0420411659 7.661232e-01  
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## [1562,] 3.583212e-01 -0.0660806656 5.336079e-01 0.3824392294 6.921783e-01  
## [1563,] -6.821075e-03 0.1705220600 1.482222e+00 -0.4625115797 -2.736144e-01  
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## [1598,] 3.281303e-01 0.1594628617 -2.301655e-01 0.7314690473 4.125244e-01  
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## [1602,] -6.072880e-01 -2.0634762770 -1.491027e+00 -0.7651676399 -2.631959e+00  
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## [1607,] -3.691490e-01 -0.5715277527 9.249603e-01 0.1907710676 4.132150e-01  
## [1608,] -6.402489e-01 -0.3422532433 1.186488e+00 -1.2478643081 8.886865e-01  
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## [1611,] -1.150617e+00 0.5446837006 2.368856e-01 0.9906578442 7.008692e-01  
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## [1614,] -3.712648e-01 0.1247651987 -4.854319e-01 -0.4010901724 1.099210e+00  
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## [1616,] 2.245830e-01 0.2409123932 -3.911706e-01 -0.2467286124 -5.288819e-01  
## [1617,] 2.463684e+00 0.0436394612 -6.782802e-01 -0.1798247502 -1.438301e+00  
## [1618,] -1.027271e+00 -0.4723543112 -5.515400e-01 0.9008508692 -4.870188e-01  
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## [1620,] 2.146837e-01 -0.4359276825 -2.933759e-01 -0.7109453099 1.490006e-01  
## [1621,] -6.949060e-01 -0.3178559339 -4.760307e-01 0.7139868116 4.929211e-02  
## [1622,] -5.475111e-02 0.0563555086 1.089704e-01 0.2897787086 -7.150453e-01  
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## [1624,] -5.580670e-01 -0.5477396173 1.375448e+00 0.4535926636 3.055016e-01  
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## [1626,] -2.796617e-01 -1.0827166600 2.191866e-01 -0.1776869897 -1.951729e-01  
## [1627,] 1.898425e-01 -0.7856467019 -7.607102e-01 -1.2601407786 -1.393173e+00  
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## [1686,] -4.550721e-01 -0.4728874490 -1.572166e-01 0.5210110462 4.066654e-01  
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## [1707,] 2.163982e-02 -0.1205162025 -1.017805e+00 -0.2697072715 3.778667e-01  
## [1708,] 2.522086e-01 0.3626998461 -3.267022e-01 -0.1920318939 -3.500636e-01  
## [1709,] -3.648401e-01 -1.1539335281 -8.678308e-01 0.5044576226 -4.919483e-01  
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## [1714,] -1.000593e+00 -0.4948687948 6.090016e-01 -0.4341576594 5.991197e-01  
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## [1716,] -5.881099e-01 -0.4927386604 -1.919872e-01 -1.4952878108 5.097544e-01  
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## [1725,] -1.155112e-01 -1.5954416762 1.287086e+00 -0.7816046712 -8.398367e-02  
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## [1768,] 6.226849e-01 -0.1473417466 -1.599911e+00 -0.8958203463 -1.194446e-01  
## [1769,] -1.484646e-01 0.2986299148 -7.535823e-01 -0.8913737532 1.122330e+00  
## [1770,] 2.957621e-02 0.6008365127 -1.615971e+00 0.8994040999 -6.325692e-01  
## [1771,] -1.910191e+00 2.1141910731 -3.669985e-01 3.1619992811 -2.150453e-01  
## [1772,] -1.283481e-01 0.2531738054 -9.812531e-01 -0.3438335706 8.066569e-01  
## [1773,] -2.318250e-01 -1.0797744575 2.534506e-01 -0.1949993608 -1.176258e-01  
## [1774,] -1.366358e-01 0.3461512828 -9.520448e-01 -0.2023431086 8.465019e-01  
## [1775,] 5.253977e-01 1.3108185260 -1.777243e+00 0.4217858339 -6.222702e-01  
## [1776,] -5.982081e-01 -0.3546972521 3.429939e-02 -1.0714849018 1.955548e-01  
## [1777,] -6.823479e-01 -0.2943926963 -2.921207e-02 -0.8593051735 -9.736868e-01  
## [1778,] -3.597028e-01 -0.0984260147 4.449896e-01 -0.1132090045 -9.449875e-02  
## [1779,] -2.088658e-01 -0.4416699840 1.903322e-01 -1.4087331356 2.058040e-01  
## [1780,] -1.362421e-02 -0.4780839329 -7.475194e-01 0.6473583993 4.951209e-02  
## [1781,] 9.310175e-01 0.7168231233 9.970547e-01 0.0100445800 2.371190e+00  
## [1782,] 2.461670e-01 -0.3926402372 -3.181944e-01 -0.7533215550 1.552199e-01  
## [1783,] 5.598946e-01 0.6393013037 -6.094081e-02 0.2821821703 -5.817081e-02  
## [1784,] -1.083164e+00 -0.0835265253 -7.935089e-01 0.8677720059 -6.956868e-01  
## [1785,] -1.823068e-02 0.2510733947 -8.453042e-01 -1.0679698692 1.211637e+00  
## [1786,] -3.277179e-01 -0.5770488743 -6.495910e-02 0.4132783500 6.665728e-01  
## [1787,] 5.407725e-01 -0.2211822806 1.591640e+00 1.0336671762 -1.562772e-01  
## [1788,] 5.326728e-01 1.8103554130 -1.821951e+00 0.4194539510 1.105467e+00  
## [1789,] 4.850574e-01 0.6144725229 -1.155609e+00 -1.1481053821 -4.456468e-01  
## [1790,] -2.230769e+00 -0.6416718274 -4.329729e-01 -0.2378705926 6.566654e-01  
## [1791,] -2.301198e-03 0.8788837697 -5.795023e-01 -0.2716603232 1.724066e-01  
## [1792,] -9.122494e-02 -0.1931822199 -1.045839e+00 -0.6772018113 5.286772e-01  
## [1793,] -2.677532e-01 0.9184182335 1.324156e-01 0.1985120029 -5.578611e-01  
## [1794,] -1.765821e-01 -1.0840597019 6.176243e-01 -0.0843542013 -2.534464e-02  
## [1795,] 4.658473e-01 0.2661747509 -6.504869e-02 -1.2698949243 5.926009e-01  
## [1796,] -7.904482e-02 -0.0947078056 -7.278348e-01 -0.3646264672 6.837816e-01  
## [1797,] 2.537650e-01 0.2156650853 2.775658e-01 -0.6311982974 1.838604e+00  
## [1798,] 7.597951e-01 0.1221100715 6.334319e-02 -1.3959464353 1.156622e+00  
## [1799,] 6.639895e-01 0.1637560001 6.173643e-02 0.3150310474 -5.327197e-01  
## [1800,] 2.709845e-01 -0.3497222386 1.381273e+00 -0.4395975952 -2.072744e-01  
## [1801,] -8.331513e-01 -0.8112648259 -2.552581e-01 -0.4069383038 4.150798e-01  
## [1802,] 8.582076e-01 -0.3704853476 -6.462106e-01 0.5800399339 3.245227e-01  
## [1803,] -4.562356e-01 0.0936868833 -6.411219e-01 -0.4700978027 6.884800e-01  
## [1804,] 3.227600e-01 0.1700708817 1.654091e-01 -0.7055565424 1.787849e+00  
## [1805,] 7.192311e-01 -0.5246805679 -4.468278e-01 0.8161945560 2.648848e-01  
## [1806,] 1.210786e-01 -0.8085048827 6.750317e-02 0.2274998059 2.731860e-01  
## [1807,] -1.569515e-01 -0.5082309893 -1.142562e+00 0.5085565468 -2.037926e-01  
## [1808,] -2.485709e-01 0.7052417138 3.825825e-01 0.5967647778 -8.469902e-01  
## [1809,] -7.104747e-01 -0.1356396359 -7.454554e-01 0.1570782535 1.896500e-01  
## [1810,] -1.070046e-01 -0.1820012512 -9.992315e-01 -0.5924794781 5.524200e-01  
## [1811,] 3.074142e-02 -0.1953109305 3.310621e-01 -0.6478287466 -5.056622e-01  
## [1812,] 8.641623e-01 0.7930583930 -5.391192e-01 -0.6614970532 -3.996133e-01  
## [1813,] -2.107839e-02 0.0051890609 -4.571459e-01 -0.1221747521 -1.200266e+00  
## [1814,] 4.586395e-01 0.9367691367 -7.990130e-01 0.6277731070 -5.727357e-01  
## [1815,] -1.978449e-01 -0.1022017664 5.533541e-01 1.3446064675 1.115231e+00  
## [1816,] -1.287220e-01 0.3895508487 -1.019595e+00 -0.6828638926 7.227618e-01  
## [1817,] -2.306282e+00 1.8569845037 2.437157e-01 1.9673159362 8.393554e-01  
## [1818,] 1.076417e+00 0.1027304319 2.319525e-03 0.5610389377 -3.405130e-01  
## [1819,] 1.189478e+00 0.7664377775 6.294163e-01 0.4712379480 1.795043e-02  
## [1820,] 2.456251e-01 -0.6917069173 -1.176991e-01 0.4995267002 -5.934779e-01  
## [1821,] 4.410059e-01 1.0168024776 -7.307291e-01 0.6931251276 -5.199019e-01  
## [1822,] -6.102393e-02 0.6308482813 -6.766120e-01 -0.1116544459 1.677710e+00  
## [1823,] -1.607948e-01 -1.1072959683 5.953334e-01 -0.1892199682 -6.621475e-02  
## [1824,] 2.623185e+00 2.3660699544 -9.126303e-01 1.1856887109 5.733792e-01  
## [1825,] -1.308025e-01 -0.8099296167 -1.028893e-01 -0.3281367513 5.412810e-01  
## [1826,] -2.307728e+00 1.4929242562 1.143684e+00 1.7722089531 8.501594e-02  
## [1827,] -7.646301e-01 0.0996209665 1.766627e+00 -0.2464220625 -1.386456e+00  
## [1828,] -6.825717e-01 0.3737221267 1.489552e+00 1.2693638851 -1.061288e+00  
## [1829,] 5.019137e-01 0.2834852884 -5.251144e-01 -1.3874912623 5.609858e-01  
## [1830,] 1.513917e-01 0.3959479783 -6.078558e-01 -0.4505246696 1.230114e+00  
## [1831,] 7.153227e-01 -0.8658555140 -3.283292e-01 -0.4849358523 1.780293e+00  
## [1832,] -4.341053e-01 -0.1433793446 -9.046953e-01 0.9040973160 -4.153489e-01  
## [1833,] 1.099860e-01 -0.8119950335 9.593258e-02 0.2903321658 2.940133e-01  
## [1834,] 1.219100e+00 0.0477820193 5.585375e-01 0.7667174493 8.868722e-02  
## [1835,] 9.710068e-02 -0.4532749461 -6.410397e-01 -0.7178979425 -3.837667e-02  
## [1836,] -1.063042e+00 -0.4783892270 -5.490094e-01 0.9018114222 -5.763301e-01  
## [1837,] 2.057647e-01 -0.3860861030 -2.545445e-01 -0.7605247033 2.950226e-01  
## [1838,] 5.380506e-01 0.6773140266 1.341524e+00 0.5238756698 9.999162e-01  
## [1839,] 5.821948e-01 0.4185890986 4.887948e-01 0.2695840541 2.923194e-01  
## [1840,] 8.299961e-01 0.2948993672 -1.863760e-01 -1.4229129117 1.027106e+00  
## [1841,] 7.612482e-01 0.8442065977 -1.050753e+00 -0.7916107935 -6.731805e-01  
## [1842,] -1.882887e+00 -0.6375612693 8.694171e-02 0.0540857091 -7.062653e-01  
## [1843,] 1.867389e+00 0.9343900334 1.549490e+00 -0.7901039853 -1.732832e+00  
## [1844,] -2.412966e+00 1.7310839847 2.603132e-01 2.0485722968 6.777727e-01  
## [1845,] -4.115947e-01 0.1188248526 -9.200553e-01 -0.7129177357 8.660103e-01  
## [1846,] 8.688081e-01 -1.3438973524 -3.266788e-01 -0.5290908625 8.554625e-01  
## [1847,] -1.079235e+00 0.5675402879 2.141104e-01 0.8668965944 7.182673e-01  
## [1848,] 5.723986e-01 0.0621361657 -4.011226e-01 0.1760638114 -8.252949e-01  
## [1849,] 7.491904e-01 0.2935837148 -3.674840e-02 -1.4169671614 1.040954e+00  
## [1850,] -4.283303e-01 0.1078203002 -9.177347e-01 0.0338597630 1.772102e-01  
## [1851,] -6.416758e-02 -0.2906082551 -8.364880e-01 -0.6217063126 2.325340e-01  
## [1852,] 7.799784e-01 -0.6563449925 -5.712495e-01 0.7260329496 2.027666e-01  
## [1853,] -1.443534e-02 0.7608513155 -6.264976e-01 -0.3888390151 6.162281e-02  
## [1854,] 2.098853e-01 0.3930287058 -2.251473e-01 -0.3795405293 1.292458e+00  
## [1855,] 6.824790e-02 1.1406781016 1.047749e-01 -0.5886203300 -1.069291e-01  
## [1856,] 8.983475e-01 0.6374814061 9.828399e-01 -0.0135310217 2.254648e+00  
## [1857,] -1.232381e+00 -1.9733327336 5.554566e-01 -0.8421960024 -4.308634e-02  
## [1858,] 5.070217e-01 0.2379873156 -4.480825e-01 -1.5298741624 6.298231e-01  
## [1859,] 5.001541e-01 0.1200493860 -6.569373e-02 -1.4280900292 5.972346e-01  
## [1860,] -6.613342e-01 -0.2545804417 -9.316087e-01 0.1459632328 7.523224e-02  
## [1861,] 3.422385e-01 0.5274404778 1.147099e+00 0.6331253605 8.915432e-01  
## [1862,] -5.336813e-01 -0.2406470491 -1.003674e+00 1.1237608381 -9.023113e-01  
## [1863,] 2.024920e+00 -0.7710708635 4.578427e-01 -1.6272973555 -4.666040e-01  
## [1864,] -2.339788e+00 -0.6687172336 -3.695542e-01 -0.1442753249 5.334303e-01  
## [1865,] -3.444037e-01 0.6977749939 4.637966e-01 0.6781185399 -9.131479e-01  
## [1866,] -4.307605e-02 -0.4744228805 -6.483238e-01 -0.3302017608 7.597994e-01  
## [1867,] 4.527581e-01 0.3779111312 -1.007779e+00 -0.9259207334 -3.937110e-01  
## [1868,] -9.734586e-01 -0.2540490886 -6.975163e-01 0.7418629016 -5.600867e-01  
## [1869,] 2.613528e-01 1.0860830983 -1.599158e+00 -0.9046942396 -1.624670e+00  
## [1870,] 1.178916e+00 0.0717094561 6.059916e-01 0.8226089357 8.799412e-02  
## [1871,] 4.639076e-01 1.5519044053 -2.149811e-01 -0.6597298307 1.724624e+00  
## [1872,] 3.223019e-02 -0.9422309220 -3.757450e-01 0.0389099443 3.370779e-02  
## [1873,] -5.759552e-02 0.1626553072 -8.650790e-01 -0.9574248671 8.196253e-01  
## [1874,] 6.766020e-01 -0.8489289850 3.869641e-02 0.1685601836 6.706690e-01  
## [1875,] -1.386911e-01 0.0756753488 -6.634714e-01 -0.7200705945 9.512090e-01  
## [1876,] 6.601808e-01 0.1507476367 -4.264246e-01 0.1451041357 -6.550592e-01  
## [1877,] 5.086421e-01 -0.1507687006 3.715270e+00 0.2938193021 1.701654e+00  
## [1878,] 2.555844e+00 2.2626037266 -8.766712e-01 1.2163583210 4.467583e-01  
## [1879,] -4.219041e-01 -0.3773255152 5.780131e-01 -0.6515714765 6.469244e-01  
## [1880,] -6.642437e-01 -0.5235003387 -6.120500e-01 -0.4342646644 -2.364982e-01  
## [1881,] -4.023290e-01 -0.4332708391 -3.966577e-01 -0.7311642237 1.318807e-01  
## [1882,] 7.218511e-01 -1.6170717156 1.469594e+00 -1.6309277321 -8.598775e-01  
## [1883,] 3.936813e-01 0.3382942907 -1.015003e-01 0.6150963473 -3.446758e-01  
## [1884,] -5.461431e-01 -0.3138125146 -9.769837e-02 -0.7446607916 -1.087014e+00  
## [1885,] -9.254691e-02 -0.5851002832 4.439118e-01 -1.6669958998 4.229402e-01  
## [1886,] 6.352556e-01 0.8863158678 5.264355e-01 -0.8264874142 3.734883e-01  
## [1887,] -3.955099e-02 0.2471418984 -8.237355e-01 -0.9753725354 1.205691e+00  
## [1888,] 8.260298e-01 1.3373622228 2.092636e-01 0.2313528111 -3.751840e-01  
## [1889,] 8.230382e-01 0.1455881559 7.185594e-01 0.3114380084 2.281339e-01  
## [1890,] 8.317750e-01 0.1076896391 5.867734e-01 -0.4566687883 5.107777e-01  
## [1891,] -1.125598e-01 -0.4340270974 -1.328711e+00 -0.4713697385 5.452890e-01  
## [1892,] 1.485887e-01 0.7535696286 -1.757990e-01 -0.0920630504 4.926545e-01  
## [1893,] 3.969409e-01 0.3996161388 -3.376793e-01 -0.9154399045 7.047115e-01  
## [1894,] 4.884064e-01 -0.1358918814 3.651251e+00 0.3914039682 1.597845e+00  
## [1895,] -2.338575e+00 -0.6926759178 -3.764353e-01 -0.1288542145 5.289317e-01  
## [1896,] 1.235456e+00 -0.5753571417 8.215700e-01 -0.9641101839 6.638471e-01  
## [1897,] -1.013415e+00 0.0541193087 -7.595791e-01 0.7709490411 -4.973670e-01  
## [1898,] -6.116072e-01 -3.3185359928 -1.331046e+00 0.0385264215 1.721459e+00  
## [1899,] -4.557055e-01 -1.0697500225 1.217185e+00 1.5592082926 -4.794610e-01  
## [1900,] 3.561682e-03 -0.0499920847 -6.841753e-02 -0.7405318043 -5.433538e-01  
## [1901,] 2.512686e-01 -0.3890102092 -2.455367e-01 -0.6999996200 2.269679e-01  
## [1902,] 1.291927e+00 0.3867213325 2.909802e+00 -0.6496103413 9.624376e-01  
## [1903,] 4.418482e-01 -0.0578364909 3.589933e+00 0.4738121669 1.322664e+00  
## [1904,] -1.809315e-01 -0.4922611399 -9.895036e-01 -0.4053533023 5.666609e-01  
## [1905,] -3.738236e-01 0.8666371113 2.137774e-01 0.2725451742 -6.599125e-01  
## [1906,] -4.416084e-01 -0.2799235794 -7.491848e-01 0.3588774191 2.623399e-01  
## [1907,] 8.586425e-01 -1.2583924031 -3.231920e-01 -0.4908333351 8.558686e-01  
## [1908,] 2.984828e-01 0.1612251570 -4.750972e-01 0.0595181049 4.373787e-01  
## [1909,] 3.114581e-01 0.0940023918 -6.526408e-01 -0.1657270809 -1.026416e+00  
## [1910,] -1.101777e-01 0.6483880951 -6.789171e-01 0.0164444219 1.601268e+00  
## [1911,] 4.413880e-02 -0.1279310788 -9.586426e-01 -0.3349941218 4.651132e-01  
## [1912,] 4.842357e-01 0.7882293697 1.470981e+00 0.5541002772 1.103108e+00  
## [1913,] -6.459273e-01 -0.5295892948 5.794044e-01 0.2888739159 -2.191295e-01  
## [1914,] 2.014353e-01 -0.0960590559 2.252232e+00 0.3191982139 8.923788e-01  
## [1915,] -3.937322e-01 0.1818897095 -3.816044e-01 -0.2424822841 1.174336e+00  
## [1916,] -7.461500e-01 0.1835393780 -5.060555e-01 1.1072049146 -6.249538e-01  
## [1917,] -1.047586e+00 0.0305822627 -6.926838e-01 0.7879190761 -5.098804e-01  
## [1918,] 4.379980e-01 -0.0514694054 1.295288e+00 0.9889592508 -1.995058e-01  
## [1919,] -1.144557e-01 -0.4743264032 -9.983184e-01 -0.4695866719 6.778644e-01  
## [1920,] -2.099139e-01 -0.0817866042 1.049555e+00 1.4843881489 1.215031e+00  
## [1921,] -1.019100e+00 -0.3776714829 -5.381385e-01 0.9527145983 -4.626634e-01  
## [1922,] -1.115969e-01 -0.4561705242 1.030736e+00 0.3804239291 9.984624e-01  
## [1923,] 3.520523e-01 0.3489253437 -3.635723e-01 -0.9024618194 5.781176e-01  
## [1924,] 8.134279e-01 -0.4478352024 -4.168460e-01 0.6941088558 4.771331e-01  
## [1925,] 4.826631e-01 -0.0771573037 3.705771e+00 0.4852412387 1.653516e+00  
## [1926,] 6.638998e-01 -0.8733938431 1.591588e-01 -0.2071961217 1.784228e+00  
## [1927,] -4.176380e-01 -0.2231014749 -9.613457e-01 0.8270768069 -4.761251e-01  
## [1928,] 1.156174e+00 0.5082197058 4.946085e-01 -0.2283061503 1.603147e-01  
## [1929,] 1.770515e+00 0.2744184506 1.954093e-01 -0.4337848353 1.363231e+00  
## [1930,] -4.109789e-03 -0.2145184768 -5.160787e-01 0.4933352568 7.040233e-01  
## [1931,] -5.035883e-02 0.4466698851 -5.212694e-01 -1.3449461161 -8.751625e-01  
## [1932,] 9.384755e-02 0.0389962053 -8.975398e-01 -0.3510171780 6.538645e-01  
## [1933,] -3.097875e-01 -0.5977634847 -1.449871e-01 0.3054294034 -2.391862e-01  
## [1934,] -1.096691e+00 0.5555077236 1.741092e-01 0.9078143724 6.600052e-01  
## [1935,] -2.605451e-01 0.1480275504 -5.140939e-01 0.6380945753 -7.907455e-01  
## [1936,] 3.024738e-01 0.4264477693 -5.824485e-01 -0.3588242776 -5.932959e-01  
## [1937,] 8.688453e-01 -1.3281527860 -3.541778e-01 -0.4301761394 8.072002e-01  
## [1938,] 2.658843e-01 0.1300679484 1.094035e-01 -1.0603928815 -5.303373e-01  
## [1939,] 8.497717e-01 1.2258268483 2.311167e-01 0.0329566949 -3.734590e-01  
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## [1941,] -1.102285e-01 -0.6197804395 -1.219232e+00 0.4024300035 -3.060063e-01  
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## [2115,] -3.384029e-01 -0.1846266827 -9.555897e-01 0.7412410843 -3.634643e-01  
## [2116,] 3.542427e-01 1.5647994332 1.952316e-01 -1.1881377414 4.347476e-01  
## [2117,] 2.576165e-01 0.1858415808 1.239761e-01 -1.0540666796 -5.467971e-01  
## [2118,] 9.286145e-02 -0.2001385769 1.933397e+00 0.1907550713 -1.039818e+00  
## [2119,] 1.049468e+00 0.0197764290 1.780581e-01 0.7923234493 -2.132164e-01  
## [2120,] 5.398715e-01 0.2145284884 8.917271e-01 -0.2615233944 -5.134165e-01  
## [2121,] -1.281817e+00 -1.0825311042 4.049219e-01 -1.5580081322 -9.381573e-01  
## [2122,] 4.839710e-01 0.6890005673 -3.987412e-01 0.1552295285 -1.270650e-01  
## [2123,] 3.622859e-01 -0.1566933027 -5.519432e-01 -0.4503569200 5.741680e-01  
## [2124,] 1.805407e-01 0.2348586384 -4.365056e-01 0.0182031014 -7.864755e-01  
## [2125,] 6.856661e-01 0.5673733008 1.252410e+00 1.4476180205 -2.092543e-02  
## [2126,] -1.217318e-01 -0.3967571257 -5.194593e-01 0.5372548861 4.428428e-01  
## [2127,] 5.278132e-01 1.7421698854 -1.862369e+00 0.3928862484 9.456458e-01  
## [2128,] -1.080464e-01 -0.1008135759 -6.433109e-01 -0.2290886702 7.322697e-01  
## [2129,] -9.806611e-02 -0.4210712582 5.631950e-01 0.2156553673 9.290366e-01  
## [2130,] -3.391797e-02 -0.0433158430 -1.022142e+00 -0.5850010574 6.706693e-01  
## [2131,] -1.147645e-01 0.2944237554 -9.591804e-01 -0.3032816773 7.934200e-01  
## [2132,] -3.158354e+00 3.0551304500 2.164731e-01 -0.9195352430 -8.664814e-02  
## [2133,] 1.798396e-01 -0.8822715997 -7.758489e-01 -1.2175845003 -1.538615e+00  
## [2134,] -2.558765e-01 0.8437004074 8.291053e-02 0.1464125424 -6.828889e-01  
## [2135,] -5.009057e-02 0.4267913359 -9.539029e-01 -0.2443349867 9.908719e-01  
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## [2137,] 1.283251e+00 0.2614990903 4.016853e-01 0.6467743999 2.322787e-02  
## [2138,] -1.096286e-01 -0.2016434664 -1.071019e+00 -0.5885770548 3.907122e-01  
## [2139,] -1.507913e-01 -0.2179531686 9.996937e-01 1.2848492294 1.151997e+00  
## [2140,] 7.541973e-02 -0.1256419476 -5.295005e-01 -0.2049674053 5.227268e-01  
## [2141,] -2.753770e-01 0.1575297332 -7.232005e-01 -0.2327667891 3.780985e-01  
## [2142,] 3.524276e-01 1.3464573899 4.056497e-01 -0.1769198400 1.767672e+00  
## [2143,] 4.951192e-01 0.3242482147 5.571249e-01 0.2223585381 1.820584e-01  
## [2144,] -3.253358e-01 -0.4646591168 1.137951e+00 -0.1035743218 -6.671635e-01  
## [2145,] 7.942767e-01 0.1929678854 4.547915e-01 -0.4715489201 2.958721e-01  
## [2146,] 5.735910e-03 0.2824707935 -8.585309e-01 -1.0241836009 1.226256e+00  
## [2147,] 5.352740e-01 -0.8708520890 -3.936070e-01 0.1724844597 3.114694e-01  
## [2148,] 4.394362e-01 0.5924606222 1.114847e+00 0.5471033136 9.923332e-01  
## [2149,] -1.779739e-01 -0.6389225596 -1.205623e+00 0.6125014657 -4.015152e-01  
## [2150,] 1.064403e+00 1.3625978483 -7.163111e-01 1.1218805544 6.535110e-01  
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## [2153,] -6.044862e-02 -0.9937674604 2.877722e-01 0.3071765658 2.642438e-01  
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## [2156,] 4.113429e-01 -1.0277177225 -3.472263e-01 0.2374449469 1.316013e-01  
## [2157,] 1.685457e+00 1.3021138436 -4.896751e-01 1.8209542533 6.434112e-02  
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## [2161,] 2.424640e-01 0.0873662053 -1.306193e-01 -0.1121133049 -8.589983e-01  
## [2162,] -2.627675e-02 -1.0964972199 -7.814045e-02 -0.0407930475 -9.619461e-02  
## [2163,] -3.078583e-01 0.0814446470 -5.133989e-01 -0.4121529883 1.101420e+00  
## [2164,] -2.393802e-01 -0.6305504054 -2.528823e-01 -0.2553828081 4.540742e-01  
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## [2166,] -1.312185e+00 -1.2325745077 3.679185e-01 -1.5491012228 -1.063494e+00  
## [2167,] -1.214017e-01 0.2298946882 -7.927822e-01 -0.9377150834 1.085258e+00  
## [2168,] -1.254608e+00 -1.0743508521 4.022317e-01 -1.5166781141 -8.765725e-01  
## [2169,] -2.159615e-01 -0.5615308994 3.449340e-01 0.3964955598 8.053340e-01  
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## [2172,] -6.156174e-01 -0.3877964551 -2.024891e-01 0.0454041434 -1.075383e-01  
## [2173,] -3.673733e+00 0.8551195079 1.732888e+00 1.8722390106 5.846399e-02  
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## [2176,] -9.738526e-01 -2.4659945100 -9.544072e-01 0.3573668586 1.034971e+00  
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## [2182,] -2.305477e+00 1.7730548867 2.682312e-01 1.8905085536 8.209044e-01  
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## [2195,] 2.735267e-01 -0.0112329698 -1.526648e-01 -0.2006028824 -8.980257e-01  
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## [2197,] -6.515919e-01 0.1860664253 -1.127282e-01 1.1985961258 -5.120069e-01  
## [2198,] -5.697390e-02 -1.0084807169 5.963504e-01 -0.2034902605 8.887718e-02  
## [2199,] -2.775275e-01 1.3614156394 3.914501e-01 -0.7507554595 -4.335167e-01  
## [2200,] -2.556243e-01 -0.4380735139 -3.199604e-01 0.1886638352 -3.434113e-01  
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## [2202,] -5.183587e-01 -0.1779040824 4.121145e-01 -0.7882035135 -1.248308e+00  
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## [2204,] -1.857918e+00 -1.8890577346 1.000219e+00 -0.2925482578 -5.880657e-01  
## [2205,] -2.566251e-01 -0.6228033463 3.088937e-01 0.3810628820 6.875717e-01  
## [2206,] -5.224543e-01 0.0436370229 7.358053e-01 0.4390685440 -1.088410e-01  
## [2207,] -1.614272e-01 -0.5874886860 -1.352033e+00 -0.4580093898 3.252446e-01  
## [2208,] 7.953643e-01 1.8070143771 4.468986e-01 -0.1347465225 1.779013e+00  
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## [2211,] -3.238985e-01 -0.2150148733 -3.292027e-01 0.0664536503 1.588224e-01  
## [2212,] 1.415707e-01 -0.7586561892 1.673730e+00 -0.5679258012 9.082487e-01  
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## [2223,] -9.430441e-02 -1.0778888355 -7.532407e-02 0.1821283550 -1.357355e-01  
## [2224,] -6.271404e-01 -0.4718856071 5.805468e-02 -1.0997091484 -2.336044e-01  
## [2225,] -4.066398e-01 0.0675170314 1.433903e+00 0.2716739888 7.560453e-01  
## [2226,] -3.619471e-02 0.2790720148 -1.305822e-01 0.7541481786 4.908336e-01  
## [2227,] -4.578615e-01 -1.0370499501 7.548681e-01 1.4509298912 -6.338947e-01  
## [2228,] -3.490470e-01 -0.6047165291 -1.147078e-01 0.3741766288 -2.636816e-01  
## [2229,] -2.163303e-01 0.1065407525 -2.061727e-01 -1.1350848042 -1.329433e+00  
## [2230,] 1.215503e+00 0.5696277418 4.432420e-01 -0.3105099121 1.556668e-01  
## [2231,] -2.518900e-01 -0.1374171130 1.091264e+00 1.5554623084 1.121001e+00  
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## [2233,] -3.129936e-01 -0.3308846420 -1.001315e+00 -0.0714452603 8.096119e-01  
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## [2235,] -9.312793e-02 0.1831941742 -1.462111e-01 0.8274238620 3.560924e-01  
## [2236,] -2.858674e-04 0.0682896837 1.007503e-01 0.2638426396 -7.068972e-01  
## [2237,] 1.829179e-01 -0.7104331371 2.183993e+00 -0.4386189479 1.132762e+00  
## [2238,] 2.197981e-01 0.3391358793 -1.363262e+00 -0.1321112170 4.542286e-01  
## [2239,] 7.166313e-01 -0.4694960664 -9.548199e-03 -1.7334175238 2.554189e-02  
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## [2241,] -2.662051e-01 -0.2207692408 -1.091753e+00 -0.4760247667 1.926282e-01  
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## [2243,] 3.051488e-01 -0.1093785854 -4.339540e-01 -0.4214759765 6.453877e-01  
## [2244,] -7.582551e-02 0.9482242316 4.786384e-01 -1.7495027288 -5.564487e-01  
## [2245,] 1.460868e-01 -0.2893265033 -1.708143e-01 0.0880953814 5.785546e-01  
## [2246,] 2.636319e+00 2.3109887399 -9.297544e-01 1.0948211028 4.737364e-01  
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## [2249,] 1.212315e-01 0.9561066614 -1.632141e-01 -0.1792862104 -2.195073e-01  
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## [2256,] -6.238224e-01 -0.1835262440 9.112728e-01 0.6653047338 -1.232816e-01  
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## [2258,] 9.153834e-02 0.5532946814 2.689038e-03 0.0456055391 5.403723e-01  
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## [2263,] -1.824278e-01 0.3216707246 1.552535e-01 -0.1433237979 -4.138993e-01  
## [2264,] -2.413592e+00 1.8392193318 3.522399e-01 2.1131082014 7.699302e-01  
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## [2267,] -2.786187e+00 -1.0291927631 8.658635e-01 -0.0218744421 -3.972020e-02  
## [2268,] -5.825332e-01 -0.1109628080 -1.357972e+00 -0.3626844541 1.251619e-01  
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## [2272,] 4.876211e-01 -0.0230805520 1.755101e+00 1.1580467467 -8.702068e-02  
## [2273,] 1.402122e-01 -0.9258951556 -7.555244e-01 -1.3046367418 -1.614514e+00  
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## [2275,] 7.185382e-01 -0.6130735761 -1.105878e-01 -1.5769132843 -1.179293e-01  
## [2276,] -1.118435e-01 -0.8027598866 1.326240e+00 -0.4325466058 5.730017e-01  
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## [2279,] -9.398312e-02 -0.4985629679 -1.347876e+00 -0.5213400218 4.437266e-01  
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## [2281,] 5.516404e-01 0.1452374284 -8.092215e-01 0.1210890263 -8.980687e-01  
## [2282,] 1.807786e+00 0.3916131957 2.178737e-01 -0.3734290653 1.445777e+00  
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## [2288,] 6.513517e-01 1.0399473068 -1.143469e+00 0.8366806895 6.670753e-01  
## [2289,] 8.070749e-01 -1.2879741799 -2.970314e-01 -0.4164333272 7.444810e-01  
## [2290,] -8.126661e-01 -1.7037415426 -2.179796e-01 -0.4860812902 8.467898e-02  
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## [2299,] -9.419839e-02 0.2905794145 -8.028436e-01 -0.8845377722 1.122785e+00  
## [2300,] 1.544302e-01 1.0259568504 4.523814e-01 -0.5526219505 -1.037895e-01  
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## [2304,] -5.798769e-01 -3.2229220388 -1.299042e+00 0.0803397001 1.786257e+00  
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## [2306,] 1.362594e-01 -0.8748612120 -7.719962e-01 -1.2404969445 -1.618647e+00  
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## [2315,] -3.441109e-01 0.1521549218 9.104298e-01 -1.8391477128 -6.339133e-01  
## [2316,] -8.677193e-01 -0.2045230427 1.274257e+00 -0.1483190309 -8.275172e-01  
## [2317,] -3.426974e-01 -0.2674943957 3.952313e-01 -0.6638641084 -1.236943e+00  
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## [2339,] 4.871600e-01 0.7066132984 -1.105519e+00 -0.9998465525 -4.038651e-01  
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## [2379,] -1.356548e+00 -1.3543642724 5.734153e-01 -0.7204212060 -6.258303e-01  
## [2380,] 1.549534e-01 1.0655579884 -4.403732e-03 -0.6837550307 -2.198178e-01  
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## [2394,] -1.553976e-01 -0.1205523977 9.977974e-01 1.4945771328 1.170217e+00  
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## [2461,] -4.346667e-01 0.4547179123 -4.001422e-01 -0.1119319937 7.193391e-01  
## [2462,] 9.480449e-01 1.3187590898 -1.094110e+00 1.0165990191 3.993019e-01  
## [2463,] -3.138038e-01 -0.1079794148 -5.810699e-03 -0.7886418084 -1.198010e+00  
## [2464,] -1.336183e+00 -1.2965060900 5.888337e-01 -0.7241603740 -5.874575e-01  
## [2465,] 7.950076e-01 0.9095375506 -8.429681e-01 -0.6368324829 -4.555924e-01  
## [2466,] 1.168527e-01 1.0244609187 7.069258e-02 -0.7462111346 -2.072656e-01  
## [2467,] 6.776577e-01 1.0477711500 -1.115099e+00 0.6779471350 7.130124e-01  
## [2468,] -2.368505e-01 0.0141386169 1.372409e+00 0.8006168105 8.010080e-01  
## [2469,] -1.457968e-01 0.5164011583 -1.675069e-02 -0.5021494951 1.358598e+00  
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## [2472,] -2.681852e-01 -0.1929367427 -1.023572e+00 -0.4141952983 2.577594e-01  
## [2473,] -1.161426e+00 -3.4199363729 -1.190354e+00 0.7372742648 1.260541e+00  
## [2474,] 5.620189e-01 0.5451443592 -1.131556e-01 -0.5733305173 1.437562e+00  
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## [2477,] -7.694356e-02 -0.3158440970 -8.447959e-01 -0.1667589946 -4.263546e-01  
## [2478,] -2.894867e-01 0.0268586295 8.425953e-01 -0.0019446624 -7.111503e-01  
## [2479,] 9.230297e-01 -1.6075593548 2.474484e-01 -1.2720055460 -1.255870e+00  
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## [2482,] 3.638415e-02 0.4016851217 1.929122e-01 -1.4946883325 -4.835749e-01  
## [2483,] 3.331961e-01 1.0419574538 -4.105745e-01 0.1819832138 -1.070271e-01  
## [2484,] 6.370861e-02 -0.3902519843 -8.193401e-02 0.1580015970 5.019399e-01  
## [2485,] 3.947349e-02 -0.4373201233 -7.861439e-01 0.5734756158 -2.582899e-02  
## [2486,] -3.185983e-01 -0.0690401432 9.464075e-01 0.6218709442 5.867670e-01  
## [2487,] 9.501787e-02 0.6146747638 -7.475051e-03 0.1656723760 5.092503e-01  
## [2488,] -7.083054e-02 -0.2253409571 -4.568661e-01 0.5821053060 5.587912e-01  
## [2489,] 3.888363e-01 0.1657390096 2.531828e-01 0.2313372097 9.514463e-01  
## [2490,] 6.787849e-01 -0.8151676076 7.367514e-03 0.3014877625 5.681993e-01  
## [2491,] 1.852771e-01 0.2017096822 3.754583e-01 -0.5023612579 1.752656e+00  
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## [2508,] 3.259965e-01 -0.1241576391 -2.996341e-01 -0.6525634286 5.637123e-01  
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## [2511,] 2.729124e-01 0.2892830633 -9.509916e-01 -0.3216170761 -9.360172e-03  
## [2512,] 1.166234e+00 0.5983238636 -1.416825e-01 -0.8803796701 -1.994964e-01  
## [2513,] 4.398608e-01 0.1375756641 1.947120e-01 0.2066578893 9.597829e-01  
## [2514,] 6.981641e-01 1.1296851310 -1.105506e+00 0.7566663380 7.727057e-01  
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## [2549,] -7.362225e-01 -0.7112590324 2.537683e-02 -0.0749068859 1.257028e-01  
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## [2562,] -1.868605e-01 -1.0704579046 -1.735649e-02 -0.6848032614 2.850507e-01  
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## [2587,] -1.679652e+00 -2.9975953020 -3.068179e+00 0.2893708174 1.725350e+00  
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## [2599,] 2.231177e-02 0.5633522376 -3.081426e-01 -0.7836606816 -1.704191e+00  
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## [2601,] 2.352214e+00 2.2072779698 1.755008e+00 1.0227783305 -2.081662e-01  
## [2602,] 1.396433e+00 0.2861722078 3.907879e-01 1.4452111847 -3.675152e-01  
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## [2619,] 3.666368e-01 -0.8183002679 2.005669e-01 -2.4315723778 -3.236154e-01  
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## [2625,] 4.231324e-01 -0.1625637409 2.358797e+00 0.5144245901 1.383755e+00  
## [2626,] 2.465810e+00 1.1292215754 -3.708740e-01 -0.9924441110 -4.199185e-01  
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## [2629,] -2.321957e-01 -0.1443627659 -1.066411e+00 -0.4658561426 2.747895e-01  
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## [2633,] -4.687531e-02 0.2700668837 7.249508e-01 0.1222417857 -1.636408e+00  
## [2634,] 9.117156e-01 0.6973919356 1.016789e+00 0.0270436559 2.225923e+00  
## [2635,] -6.987902e-02 0.4840218087 1.516290e-01 0.1856514902 1.340088e-01  
## [2636,] -7.993672e-01 -4.2952657469 -1.210330e+00 0.1592756043 1.748731e+00  
## [2637,] 4.373106e-01 0.6584067776 -3.932295e-01 0.3941427861 -6.795441e-01  
## [2638,] 2.132682e-01 0.1915570825 1.755974e-01 -0.2600685937 -8.291282e-01  
## [2639,] -4.882750e-01 0.1304638811 5.465920e-01 0.2777427328 -6.631171e-01  
## [2640,] 4.912601e-01 -0.1684622348 1.201304e+00 0.9717503425 -3.729772e-01  
## [2641,] 1.736748e-01 -0.8865484119 -7.517201e-01 -1.2469001264 -1.574854e+00  
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## [2643,] 6.118202e-01 -0.4333442332 -4.126073e-01 0.3356908597 1.149998e+00  
## [2644,] 1.609905e-01 0.2782940944 -8.224541e-01 -0.3676008390 -5.128628e-02  
## [2645,] 1.926283e-01 0.8354472133 -2.382314e-01 0.4298556928 -1.871897e-01  
## [2646,] 1.548973e+00 1.2077040720 -9.630665e-01 1.8368802158 -3.164406e-01  
## [2647,] -7.466431e-02 -0.1194630761 -2.186123e-02 -0.6303856189 -7.829616e-01  
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## [2657,] -6.048210e-02 0.3235771351 9.452425e-02 -0.1804114000 -3.580317e-01  
## [2658,] -8.397892e-01 -0.2861486685 4.616174e-01 0.0877317572 -6.163451e-01  
## [2659,] -2.573260e-01 -0.0465935637 -2.154270e-01 0.8336300851 5.042582e-01  
## [2660,] 8.306217e-01 0.5759738251 1.021663e+00 0.0663794868 2.065542e+00  
## [2661,] 2.024197e-01 -1.3578725508 -1.285258e-01 -0.3493762440 -1.778763e+00  
## [2662,] -6.401006e-01 -0.0212575203 -1.254655e-01 -0.0572271407 -1.703614e+00  
## [2663,] 4.327605e-02 0.8726555115 -6.456823e-01 -0.1722651281 7.246733e-02  
## [2664,] 3.441574e-01 -0.2248991736 -5.752221e-01 -0.1789717243 1.089941e+00  
## [2665,] 5.646462e-01 0.3517468080 -1.613412e+00 0.4684992813 2.810116e-01  
## [2666,] 2.104510e-01 1.1943382798 7.812257e-02 -0.7391931519 -4.582496e-02  
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## [2668,] 3.045289e-01 -0.7731238256 -2.194598e-01 -1.4012048117 -1.102200e+00  
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## [2684,] 2.174622e-01 -0.3278023886 2.366045e-01 0.1492682798 6.748249e-01  
## [2685,] 3.749297e-01 1.4412562894 7.136680e-02 -1.2456793250 1.805066e-01  
## [2686,] 3.530385e-01 1.2089828305 -2.823928e-01 -1.3990120177 -3.940930e-01  
## [2687,] 9.234612e-01 0.4599470167 1.552071e+00 0.8030514790 1.110290e+00  
## [2688,] -9.840700e-01 -0.4637292425 7.064909e-01 -0.1227819211 -1.436310e-01  
## [2689,] 3.697298e-01 -0.0053236055 -1.290620e-02 -1.0731853340 -4.595710e-01  
## [2690,] -1.375161e+00 -1.4371567445 5.596078e-01 -0.7197132643 -7.375624e-01  
## [2691,] 1.408686e-01 -0.8828523446 -7.564432e-01 -1.2389924601 -1.647977e+00  
## [2692,] 6.682407e-01 1.1015993896 -1.101178e+00 0.8403297540 7.082937e-01  
## [2693,] 9.651057e-02 -0.3231143603 5.263070e-01 -0.3587870784 -9.123667e-01  
## [2694,] -1.748509e-01 -0.7904857441 1.399499e-01 -0.4169951883 7.638452e-01  
## [2695,] -5.956273e-01 -0.5096053112 8.032551e-01 -0.0316657470 1.680671e-01  
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## [2702,] 4.157752e-01 0.0139134476 -8.771266e-01 -0.6274914057 -5.444229e-01  
## [2703,] 1.803265e-01 0.3503471917 2.924627e-01 -0.1813830135 -6.789036e-01  
## [2704,] 1.995293e-01 -0.2720402670 -1.462191e+00 0.4046374847 -3.627618e-01  
## [2705,] 1.671038e+00 -0.5644199677 2.853307e-01 0.1526125148 -2.426894e-01  
## [2706,] 9.246065e-01 -1.6281330192 3.041342e-01 -1.3220635453 -1.237218e+00  
## [2707,] -3.879401e-01 -0.2753347425 -7.560971e-01 -0.1996231405 -8.121671e-02  
## [2708,] 1.246793e-01 -0.4749214326 -1.629903e-02 -0.5972774776 -1.343521e-01  
## [2709,] 5.003770e-01 0.6473014021 -9.867403e-01 1.0121650964 8.991350e-01  
## [2710,] 4.900420e-01 0.0290176444 3.563002e-01 -1.0407080143 -2.805352e-01  
## [2711,] 7.434220e-02 -0.3897021701 1.019355e+00 0.3203771379 6.579745e-01  
## [2712,] 5.688288e-01 -0.1779618945 4.000314e-01 -0.7091694353 1.680997e+00  
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## [2714,] 5.329922e-01 0.3978495214 5.758254e-01 0.3197258342 1.992569e-01  
## [2715,] -2.688508e-01 0.9413942690 1.692121e-01 0.2245505755 -6.473650e-01  
## [2716,] 2.031910e-01 1.0636548922 4.318705e-01 -0.5678270395 -9.876856e-02  
## [2717,] 2.619775e-01 1.4937380140 2.025397e-01 -1.0810763548 1.945063e-01  
## [2718,] -8.291114e-01 -0.2743828766 4.465753e-02 -0.1485137386 -6.480143e-01  
## [2719,] 8.984405e-01 -0.3658553953 -1.222797e+00 -1.2887671500 1.442311e+00  
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## [2721,] 9.469592e-02 0.2337712326 -7.648742e-01 -0.4343721107 -1.020240e+00  
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## [2723,] 3.786547e-01 -0.3837691553 -1.744023e-02 -0.7351651007 1.294414e+00  
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## [2727,] -8.258141e-01 -0.7802104127 6.823971e-01 0.1616505491 -1.822096e-01  
## [2728,] 3.796925e-01 0.3672260818 -4.684702e-01 -0.3583413841 2.455816e-01  
## [2729,] 1.727415e+00 -0.5502472853 7.176275e-01 0.2927550168 -8.753542e-02  
## [2730,] 5.816913e-01 0.4467957431 2.858058e-01 -0.3063608509 1.468583e+00  
## [2731,] -1.187991e-01 0.7583332808 -5.976261e-01 0.8135365263 8.046734e-01  
## [2732,] 1.862121e-01 1.0319074943 -5.857435e-02 0.2744516764 -8.005751e-02  
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## [2734,] 2.355256e-01 1.4862428157 2.189314e-01 -1.1435274403 1.369074e-01  
## [2735,] -1.406543e-01 0.0522132623 -6.463138e-01 0.2898022267 -3.151800e-01  
## [2736,] -2.948268e-01 -0.2248268809 -1.082178e+00 -0.3529396529 1.425212e-01  
## [2737,] -4.589510e-01 -0.0268789824 -8.238302e-01 0.1011981871 3.870771e-01  
## [2738,] 1.161634e-01 -0.3109112024 6.623071e-01 -1.0885524635 1.750389e+00  
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## [2740,] 1.413948e-01 -0.1769860638 -5.519547e-02 0.0874677832 6.937502e-01  
## [2741,] 1.025882e+00 -1.2403515804 -4.393516e-01 -1.8726392660 -8.497475e-01  
## [2742,] 1.464865e-01 1.0083949531 -6.457408e-04 -0.7332108256 -2.822603e-01  
## [2743,] -1.065350e-01 0.8199006900 -9.034904e-02 -1.4405985174 -1.801048e-01  
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## [2745,] -2.038046e+00 1.9717114685 -1.596146e-01 3.5726389667 -2.717828e-01  
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## [2748,] -4.508065e-01 -0.2809939819 -8.501685e-01 0.2048293568 7.026097e-01  
## [2749,] 5.633872e-01 -0.1020345641 4.122924e+00 0.4404421939 1.702435e+00  
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## [2752,] -3.131429e+00 -1.2174183063 6.995621e-01 0.4618249926 1.331939e-01  
## [2753,] -6.866327e-01 0.2279258074 2.017764e-01 -0.6693231441 -1.306253e+00  
## [2754,] 1.758701e+00 2.6865151364 -1.093886e-01 0.2306488489 -9.376438e-01  
## [2755,] 5.780962e-03 0.7867203058 -2.231210e-01 0.8429850309 9.497024e-01  
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## [2758,] -9.522296e-01 -0.3311084581 1.415675e-01 -0.1334048023 -7.678179e-01  
## [2759,] -2.511710e+00 -0.4689642837 -8.222104e-03 0.8377330730 8.774536e-01  
## [2760,] -2.703649e+00 3.2252013584 -1.076271e-01 -2.0776160532 1.213644e+00  
## [2761,] -2.684113e+00 -0.0256910314 -1.511804e-01 2.2203663125 -1.269628e+00  
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## [2763,] 7.292994e-02 -0.6205044487 -8.037325e-02 -0.7264658237 -3.533886e-01  
## [2764,] -1.190782e-01 -1.1428160985 -2.553414e-02 0.2659848616 -2.106986e-01  
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## [2766,] 4.611347e-01 -0.0833412498 -2.281638e-01 -0.0015723560 -8.448286e-01  
## [2767,] 5.151349e-01 -0.1975414043 -2.408306e-01 -1.0004478704 1.234565e+00  
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## [2772,] 4.704920e-01 -0.0162299575 3.538564e-01 -1.0507201321 -3.404685e-01  
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## [2775,] 5.183640e-01 -0.1091310059 -3.178114e-01 0.0134856275 -8.190168e-01  
## [2776,] 2.143464e-01 -0.5755390388 -6.748965e-01 -0.0400376673 8.359879e-01  
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## [2795,] -1.161725e+00 -2.3513919300 -2.421165e+00 -0.7899068930 2.017757e+00  
## [2796,] -1.498802e-01 -0.5879939631 -1.390859e+00 -0.3317845303 2.374440e-01  
## [2797,] -3.894955e-01 -0.4189086023 -9.892109e-01 0.0183625217 6.013165e-01  
## [2798,] 1.704017e+00 1.2947969185 -5.567345e-01 1.8353639755 -6.001630e-02  
## [2799,] 6.488587e-01 0.0112258866 4.155536e+00 0.4970675811 1.900347e+00  
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## [2805,] -1.969879e-01 -0.1095834991 1.109807e+00 1.4755352440 1.145922e+00  
## [2806,] 1.684624e+00 -0.6921987651 7.190738e-01 0.2443264220 -2.454491e-01  
## [2807,] 1.097114e+00 0.8518721505 -8.842689e-01 -0.1909577502 7.391419e-01  
## [2808,] 3.442149e-01 -0.0156447445 -5.896478e-01 -0.0004167777 -9.441518e-01  
## [2809,] -7.836262e-01 0.3923920117 1.095045e-01 1.0226161835 5.432738e-01  
## [2810,] 2.725620e-01 0.7202283027 4.631391e-01 -0.0479184715 -5.468880e-01  
## [2811,] 4.986875e-01 -0.0944067044 3.785012e+00 0.2833881324 1.644596e+00  
## [2812,] -8.601926e-01 -0.4203122145 6.858175e-01 0.9425629097 -1.913992e-01  
## [2813,] 1.932169e-02 -0.3218926363 7.344807e-01 0.3795704563 5.926636e-01  
## [2814,] -1.339850e+00 -1.3531550666 5.794853e-01 -0.6879716483 -6.377432e-01  
## [2815,] -2.000642e+00 1.9606062487 -1.342032e-01 3.4544061867 -2.365989e-01  
## [2816,] 1.119600e-01 -0.3932819120 6.433733e-01 -1.2225046031 1.699792e+00  
## [2817,] -2.488227e+00 1.2403931616 5.651416e-01 1.4220614632 -3.758325e-01  
## [2818,] 1.767531e-01 0.9352574344 -1.280183e-01 -0.3253279122 -1.575043e-01  
## [2819,] 2.638142e-01 -0.8008833377 -2.014031e-01 -2.4949340493 -5.074488e-01  
## [2820,] 1.686200e+00 1.2222842381 -5.775774e-01 1.8678402461 -1.564356e-01  
## [2821,] 5.706616e-01 0.6670216193 -6.827845e-01 -0.9611988943 -3.213007e-01  
## [2822,] 1.818427e+00 0.4112974269 2.781351e-01 -0.4308234326 1.489844e+00  
## [2823,] 5.590237e-01 0.4326936106 1.882054e+00 -1.3079316070 -3.270309e-01  
## [2824,] 2.025464e+00 0.2898070920 -8.323234e-01 -0.9192975259 -3.952685e-01  
## [2825,] 1.991764e-01 -0.4417931500 -8.761633e-01 -0.3860413670 -1.258561e+00  
## [2826,] -2.582671e-01 0.9143813143 2.694025e-01 0.1653963880 -1.087370e-02  
## [2827,] 1.327748e+00 0.4414968666 -6.167172e-01 1.4296432068 3.684509e-01  
## [2828,] -1.428075e-01 -0.5781114471 -1.351567e+00 -0.5508270945 2.724891e-01  
## [2829,] -1.489890e+00 -1.5835624272 2.768100e-01 0.1218310674 -5.031035e-01  
## [2830,] 9.159109e-02 -0.5565059927 -2.920939e-02 -0.6469964703 -2.347669e-01  
## [2831,] 6.407849e-01 -0.0712883709 1.380799e-01 -0.8542197300 1.491417e+00  
## [2832,] 4.777004e-01 -0.0722576115 1.227736e+00 1.0983171466 -3.549319e-01  
## [2833,] 2.776764e-01 -0.1341705360 -1.613752e+00 0.2178288524 -4.029159e-01  
## [2834,] 9.862317e-01 0.6230156099 1.595806e+00 0.8494022127 1.309402e+00  
## [2835,] 4.596149e-01 0.4442075734 -1.059980e+00 -0.2347672194 6.089592e-01  
## [2836,] 1.091726e+00 0.8197521364 -9.028889e-01 -0.3336592380 6.866047e-01  
## [2837,] 3.295178e-01 0.5324827055 -1.038713e+00 -0.5621940044 -1.898187e-02  
## [2838,] 1.061795e+00 0.6112812997 1.546277e+00 0.6754818171 1.374934e+00  
## [2839,] 2.938154e-02 0.8088307036 -6.299822e-01 -0.2341737588 5.273992e-02  
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## [2853,] 8.203330e-01 1.1648274632 -6.976658e-01 0.8175787775 9.846829e-01  
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## [2855,] 1.598013e-01 1.0943179866 4.847264e-01 -0.3970179217 -8.816103e-02  
## [2856,] 2.393408e-02 -0.1531491548 1.614014e-01 -0.1238718985 1.512799e+00  
## [2857,] 1.063728e+00 0.0478609453 -7.636279e-01 -0.5581730038 2.098719e-01  
## [2858,] 3.846416e-01 0.7855636088 4.150075e-01 -0.1517192865 -4.244467e-01  
## [2859,] 2.218763e-01 0.6604471882 -2.753634e-02 -0.2218308679 -7.947293e-01  
## [2860,] 1.972907e-01 0.1530092341 -1.519963e-01 -0.6562699736 1.522127e+00  
## [2861,] -3.474063e-01 -0.0898952790 9.969171e-02 -0.5857351376 1.085907e-01  
## [2862,] -5.154575e-01 0.1625001837 -7.655822e-02 -1.0554317811 -1.284867e+00  
## [2863,] 2.007235e-01 -0.5123024779 -6.211740e-01 0.0228729674 8.913489e-01  
## [2864,] -6.245470e-01 -0.5634944015 -4.370853e-01 0.5472547147 -3.575276e-01  
## [2865,] -3.170637e-01 -2.2601858568 -3.199825e+00 0.7618210514 3.645016e+00  
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## [2873,] -4.314590e-01 -0.6188163044 -6.272122e-01 0.9166365796 3.582393e-02  
## [2874,] 3.256574e-01 1.4989259948 1.144113e-01 -1.0315925782 1.845829e-01  
## [2875,] 3.510201e-01 -0.2186999002 -2.309091e-01 -0.7304048443 6.013601e-01  
## [2876,] 2.525016e+00 1.3307173743 -3.459251e-01 -0.9286328130 -2.365300e-01  
## [2877,] -4.043107e-01 0.0384156391 7.672890e-01 0.7051839405 -1.058839e+00  
## [2878,] -8.040059e-02 0.3267855608 -2.585382e-01 -1.5749575671 -8.534051e-01  
## [2879,] 1.002699e+00 1.3417898507 -6.641732e-01 1.2153301903 5.229508e-01  
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## [2892,] -7.788037e-02 -0.5279143233 -5.090602e-01 -0.9714212086 -4.188103e-01  
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## [2895,] 9.812880e-02 -2.7455207885 1.538428e+00 -0.4018515650 2.919092e+00  
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## [2897,] -2.752320e-01 -0.0512997003 2.536042e-01 -1.2213773545 -1.140885e+00  
## [2898,] 1.079225e-01 -0.0214306301 1.119983e+00 0.8236193561 -5.849299e-01  
## [2899,] 7.374120e-01 -0.4608011064 -2.898774e-02 -1.6080456343 -1.554143e-02  
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## [2902,] -1.286592e-01 0.2466607983 1.212378e+00 0.6447163293 7.454545e-01  
## [2903,] -1.540274e-01 -0.1136420973 1.151212e-01 0.8467062339 5.614913e-01  
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## [2907,] 9.035595e-01 -1.6294437608 2.558272e-01 -1.2739513513 -1.338754e+00  
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## [2918,] 7.071511e-01 -0.5764720041 -4.611389e-02 -1.6114679336 -1.492085e-01  
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## [2920,] -3.672380e-01 -0.2701791111 -9.276389e-01 0.1056011122 7.414823e-01  
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## [2929,] -7.995602e-01 0.1591285071 -2.622226e-01 -0.1927144021 5.275161e-01  
## [2930,] 3.336564e-01 -0.0852482276 -1.766433e-01 -0.6807275625 6.911313e-01  
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## [2969,] -7.235049e-02 -0.6152383798 -1.085364e+00 -1.4147656415 1.272195e+00  
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## [2972,] -1.380800e-01 0.0570294288 1.690435e+00 -1.3823133319 -3.895925e-01  
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## [2977,] 2.869620e-01 0.0001789239 2.835983e-01 0.0756011851 -8.718626e-01  
## [2978,] 3.240283e-01 -0.7374765570 -1.891305e-01 -2.4279192832 -4.031353e-01  
## [2979,] -5.169457e-02 -0.2442048102 -2.422801e-01 -0.3486048361 1.301015e+00  
## [2980,] -1.227224e-01 0.1658993014 -6.272603e-02 0.8982474108 2.878538e-01  
## [2981,] 6.230020e-01 -0.3717116639 8.797080e-01 -0.1224639705 9.009854e-01  
## [2982,] 2.932398e-01 0.5950638070 6.185036e-01 -1.1293895262 9.431240e-03  
## [2983,] -1.261437e-01 -0.5973885562 1.703650e-01 -0.1288295542 5.829116e-01  
## [2984,] -2.105775e+00 -0.0109698377 2.540207e-01 0.4641631426 9.088011e-01  
## [2985,] -3.701313e-01 -0.0809353613 6.013115e-01 -0.5909033234 -1.614237e+00  
## [2986,] -1.203160e-03 -0.0932374536 -7.456703e-01 -0.6829605112 1.041889e+00  
## [2987,] -5.853240e-01 -0.6687971676 -4.870494e-01 0.4810091895 -4.041771e-01  
## [2988,] -1.339806e+00 -1.3995107019 5.701955e-01 -0.6712073809 -6.807231e-01  
## [2989,] 9.029249e-01 0.5084955776 -3.236332e-01 -1.2347128539 -5.929129e-02  
## [2990,] -3.420903e-01 0.7793728045 2.960832e-01 0.3398868371 -1.612886e-01  
## [2991,] -3.149555e-02 -0.5236344227 1.174561e-01 -0.2301226150 6.769184e-01  
## [2992,] 7.363982e-01 -0.4634274066 -1.902288e-02 -1.6215418994 -2.813638e-02  
## [2993,] -3.622095e-03 0.8459747466 -2.985676e-01 -1.6816572082 -2.912000e-01  
## [2994,] 3.054474e-01 -0.2232526284 -2.456332e-01 -0.6150030967 5.354010e-01  
## [2995,] 2.299152e-02 -0.7602654093 3.388453e-01 -2.3671239187 -7.540293e-01  
## [2996,] -1.743262e-01 -0.2992868684 1.497210e+00 -0.1429825853 -8.147707e-01  
## [2997,] 1.882124e-01 1.0628201148 -7.964380e-02 -0.1730009458 -6.943025e-02  
## [2998,] 2.470863e+00 1.1774845258 -3.833351e-01 -0.9434006552 -4.339260e-01  
## [2999,] 1.208942e-01 -0.5980211462 -1.032234e+00 -0.1839310038 6.635605e-01  
## [3000,] 3.614783e-01 0.6101069218 9.429490e-01 -0.9112367905 3.181540e-02  
## [3001,] -8.317891e-01 -0.5808334895 5.907961e-01 0.8103759772 -3.480884e-01  
## [3002,] 5.669846e-01 0.1121880252 1.286148e-01 -0.0056287252 1.030962e+00  
## [3003,] -1.087209e-01 0.1246707544 1.170465e+00 0.5161634647 6.874330e-01  
## [3004,] 4.323819e-01 0.1926700709 -8.258549e-01 -0.5825145701 -4.454043e-01  
## [3005,] 2.910086e-01 0.7087031756 -2.934232e-01 0.2808033014 -8.170018e-01  
## [3006,] -1.341925e+00 -1.3671906654 5.805203e-01 -0.6947587137 -6.830403e-01  
## [3007,] 3.265166e-01 0.2149324136 -7.205567e-01 0.3150185141 -7.585846e-01  
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## [3011,] -7.166829e-01 0.1781849864 -2.900927e-01 -0.2194886743 6.308115e-01  
## [3012,] -1.838383e-01 -0.3717469003 4.505142e-01 0.2858580072 3.469317e-01  
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## [3020,] -3.466461e-01 0.0603711884 5.005073e-01 0.3955669549 -1.297242e+00  
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## [3027,] -4.007676e-03 -0.7209868899 7.184327e-01 -0.7211537103 8.047391e-02  
## [3028,] -3.189096e-01 -0.5922784787 2.388466e+00 -0.5379492616 6.783311e-01  
## [3029,] -1.003458e+00 -0.1892453595 1.576827e+00 0.3658745466 1.993305e-01  
## [3030,] -5.756462e-01 -3.1295976444 -1.657662e+00 0.0585257519 1.799494e+00  
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## [3063,] 8.275455e-01 -0.2076166679 1.247813e+00 -0.0002820502 1.264330e+00  
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## [3067,] 5.716952e-01 0.2663653195 -4.313671e-01 -0.5982432536 9.498559e-01  
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## [3079,] 1.638179e+00 -0.6649109319 2.515286e-01 0.1999852847 -4.083940e-01  
## [3080,] -3.994096e-01 0.8017650896 8.283182e-01 0.2097921676 -1.168186e+00  
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## [3084,] 6.019344e-03 -0.5024400669 -1.101836e+00 -1.4463920011 1.425872e+00  
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## [3092,] -9.330769e-02 0.9217821610 -3.746903e-01 0.3630515900 -5.289440e-01  
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## [3098,] -1.943434e-01 -1.1291436275 1.919616e+00 -4.0794701797 2.601969e+00  
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## [3102,] -9.154325e-01 0.1543058957 8.151828e-02 1.1849678441 2.501587e-01  
## [3103,] 1.927760e-01 0.3339461194 2.559017e-01 -0.1805127152 -8.007015e-01  
## [3104,] 4.387253e-02 -0.5344823246 3.506139e-01 -0.9040329743 8.462264e-01  
## [3105,] -8.445017e-01 0.2444396231 4.146715e-02 1.0817779678 2.830389e-01  
## [3106,] 4.127491e-01 -0.1970866512 -6.344708e-01 -0.0802005039 1.081653e+00  
## [3107,] 6.727833e-01 -0.0142487628 1.812315e-01 -0.9668669652 1.560536e+00  
## [3108,] -5.333148e-01 -0.5815802576 -5.054138e-01 0.4625002305 -3.333433e-01  
## [3109,] 5.895010e-01 -0.5802788270 -4.375268e-01 0.3878027618 9.623528e-01  
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## [3113,] -6.785824e-01 0.1611579835 -3.077157e-01 -0.2916237021 6.473064e-01  
## [3114,] 6.276521e-01 -0.4588747705 -1.994119e-01 -2.1322071191 -7.361464e-01  
## [3115,] -9.154540e-02 0.3436163648 -8.787699e-01 -1.6266932534 6.751359e-02  
## [3116,] -3.357389e+00 1.1132567589 1.048938e+00 2.3832510484 4.116340e-02  
## [3117,] 8.182709e-01 0.2999359973 -1.023495e+00 1.9156300367 -8.422367e-01  
## [3118,] 5.262815e-01 0.0847471367 -2.389086e-01 -0.4946018435 1.037571e+00  
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## [3122,] -5.495762e-01 0.1017185318 -2.806485e-01 0.4458910983 1.019259e+00  
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## [3134,] 4.177525e-01 -0.3953638795 -1.940376e-01 0.0858079047 9.742690e-02  
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## [3149,] 1.274831e-01 0.2263661882 -2.299832e-01 -0.2637108075 -1.054848e+00  
## [3150,] 4.984865e-01 0.2853355181 -1.172443e+00 -0.3754420295 2.918248e-01  
## [3151,] 4.611144e-01 0.6015926040 -4.092606e-01 0.3533181297 -7.871359e-01  
## [3152,] -1.886108e+00 -1.5987064551 1.389122e+00 -1.2785381209 -1.183297e+00  
## [3153,] -2.214036e-01 -0.0780155653 -1.567412e-01 -0.2795481720 -2.392729e-01  
## [3154,] -8.112621e-01 -0.2807586556 5.874475e-01 0.1234924523 -2.012426e-01  
## [3155,] -5.637957e-01 -0.0119836078 8.019905e-01 -0.6066352754 -1.422700e+00  
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## [3163,] -6.050430e-01 -0.6081748024 -6.528883e-01 -0.1591123126 -3.487413e-01  
## [3164,] -1.957049e-01 0.1879581378 -8.000016e-01 -2.3337309967 -2.523768e-01  
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## [3166,] -4.332400e-01 0.5477866472 1.782636e+00 -1.1317349885 -1.101397e+00  
## [3167,] -3.240635e+00 3.1903695609 -6.639678e-01 -0.8709357718 -9.539121e-01  
## [3168,] -9.124985e-01 -0.9589277088 2.809433e+00 -0.2422161585 1.950196e-01  
## [3169,] -6.383364e-01 -0.5317345786 7.249824e-01 0.3584643683 -1.205862e-01  
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## [3172,] 1.461158e+00 0.6038765097 -1.196891e-01 1.4799815797 6.767973e-01  
## [3173,] 9.842395e-01 0.0750372542 -1.128714e+00 0.4443551719 -5.315737e-01  
## [3174,] 1.656719e+00 0.2115341350 -9.127911e-01 1.6415031831 -8.224832e-01  
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## [3176,] 2.214408e-02 -0.2752246999 1.248653e+00 -0.2812883055 7.242375e-01  
## [3177,] -1.845855e-02 -0.4989426794 -1.054593e+00 -1.3789084698 1.411631e+00  
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## [3198,] -5.628403e-01 -0.5729165309 -4.719755e-01 0.5347633065 -3.383927e-01  
## [3199,] -4.835923e-01 0.1274784505 -2.888734e-01 0.3681685901 1.108002e+00  
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## [3201,] -1.715061e-01 0.3492740538 7.998025e-01 1.0474601175 -1.441490e+00  
## [3202,] -8.680251e-01 -0.3005283873 1.159482e+00 -0.0559319783 9.979582e-02  
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## [3204,] -4.802859e-01 0.3281620323 -3.967231e-01 -0.2505112831 4.763746e-01  
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## [3213,] -6.337617e-02 0.6207164938 -2.482446e-01 0.1377201527 1.387055e-01  
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## [3235,] 4.864666e-01 -0.1516272532 -7.189353e-01 0.6132710368 -9.934271e-01  
## [3236,] 5.319209e-01 0.6185661271 -9.235326e-01 -0.2326553244 4.424167e-01  
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## [3258,] -4.266238e-01 0.0546088806 8.343068e-02 1.2933345759 -4.453823e-01  
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## [3264,] 2.136369e+00 1.5872207434 -3.235226e-01 0.5721415649 2.228169e-01  
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## [3270,] -4.691791e-01 -0.0414991890 -1.753815e-01 0.5518307970 -1.752492e-01  
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## [3273,] 2.326815e-01 0.7842816181 -4.301897e-01 0.2897069235 -1.110576e+00  
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## [3285,] 1.404416e+00 0.5494763852 -1.338688e-01 1.5627732137 5.661989e-01  
## [3286,] 3.144015e-01 -0.5213250158 6.237212e-01 -0.1734263785 9.656453e-01  
## [3287,] 1.123805e+00 1.2824051223 2.769985e+00 0.5589818610 -1.093066e+00  
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## [3289,] -2.867734e-01 -0.4111551286 6.910353e-02 0.3011401803 8.256903e-02  
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## [3313,] 6.969669e-01 -0.2267160139 8.698261e-01 0.0197823221 1.030488e+00  
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## [3326,] -5.761498e-01 0.0612889968 -2.569730e-01 0.5276929709 9.812108e-01  
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## [3332,] 2.486970e-01 0.2040804354 -5.026825e-01 0.5691230511 -1.217290e+00  
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## [3407,] 9.682102e-01 0.1862073495 -1.029737e+00 0.5876399100 -3.821729e-01  
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## [3413,] -2.581048e-01 -0.9970348188 2.020232e-01 0.2390469335 5.049328e-01  
## [3414,] -2.689922e-01 0.2754714483 -2.775989e-01 -0.9825825435 -9.078190e-01  
## [3415,] -1.700676e-01 0.3981529210 1.739581e-01 -0.8378264895 -6.370485e-01  
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## [3497,] 4.027738e-01 0.0631236123 -2.149541e-03 -1.0540423406 -5.245993e-01  
## [3498,] 7.477450e-01 -0.7606721273 1.974425e+00 -1.4879979139 -8.257526e-02  
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## [3665,] 7.969721e-01 0.7261835346 3.697673e-01 0.3677585903 -2.867358e-01  
## [3666,] 3.547828e-01 0.8724943645 -2.001257e+00 1.3255930608 -5.687677e-01  
## [3667,] 9.464661e-01 1.0968813218 -1.455996e+00 1.8442412260 -7.549595e-01  
## [3668,] 8.983264e-01 0.8018368247 -6.280098e-01 0.1945739578 4.865282e-01  
## [3669,] -5.228763e-01 0.3493680983 4.251358e-01 0.0802670208 -1.512277e+00  
## [3670,] 2.991178e-01 0.0579251706 4.292533e-01 0.1250980688 -3.459594e-01  
## [3671,] 3.060972e-02 -0.2221416840 -5.093253e-01 0.0138343945 -7.907092e-02  
## [3672,] 7.283582e-01 -0.6600700954 -5.425237e-01 -1.1017659149 1.898976e-01  
## [3673,] -4.511234e+00 1.0964364657 4.470735e-01 -1.0379964170 9.156878e-01  
## [3674,] -4.630741e-02 -0.0358955012 -9.243905e-01 0.3836642580 3.041461e-01  
## [3675,] -1.594959e-01 -0.0475287148 -8.445726e-01 0.4596103697 2.123263e-01  
## [3676,] 6.346638e-01 -0.6420227375 -9.034877e-01 -1.2423974836 5.313409e-02  
## [3677,] 9.966351e-01 1.1466233217 -1.010332e+00 1.9603744834 -5.973145e-01  
## [3678,] 5.328223e-01 0.9484920725 7.552488e-02 0.0793228602 2.216147e-01  
## [3679,] -1.503036e-01 1.3029636533 -5.990372e-01 1.1176755910 1.355929e+00  
## [3680,] 1.527837e-01 -0.9622761435 1.195736e+00 -3.7264812496 2.597892e+00  
## [3681,] 9.652023e-02 -0.4193422185 4.831723e-01 0.4388650731 3.179309e-01  
## [3682,] -1.386152e-01 -0.0796535310 -8.992815e-01 0.5559044431 1.988814e-01  
## [3683,] -1.607157e+00 -1.3430283494 6.736910e-01 -0.9350352989 -1.297368e+00  
## [3684,] 3.457343e-01 0.8859502881 -1.721879e+00 1.1541324359 -6.379915e-01  
## [3685,] 6.424063e-01 0.2402638627 1.183256e-01 -0.1832103953 9.404288e-01  
## [3686,] 2.395204e-01 -0.5297435397 -1.412991e-01 -0.4833520843 -2.157357e-02  
## [3687,] -1.347878e-01 -0.0334025598 -8.925561e-01 0.5323949811 2.432167e-01  
## [3688,] -1.188196e+00 -0.6306902578 6.047287e-01 -0.0480198000 -6.837150e-02  
## [3689,] 4.751231e-01 -1.2883761789 8.419323e-01 0.1237348218 5.793329e-01  
## [3690,] 5.526922e-01 -1.2307568284 1.316485e+00 0.2120405243 8.268658e-01  
## [3691,] -8.656303e-01 -1.6302388340 -2.758364e-01 0.3180791819 6.431503e-01  
## [3692,] 1.086293e-01 -1.0376231839 3.253715e-01 0.3683889135 -5.135845e-01  
## [3693,] 7.304603e-01 0.7640455873 -5.609921e-02 0.3564350270 -3.822996e-01  
## [3694,] 9.344428e-01 -0.5791716815 1.833986e-01 -1.2262233189 -1.055814e+00  
## [3695,] 6.701254e-01 1.9201471826 -1.178209e+00 1.4874809189 -9.294162e-01  
## [3696,] 3.043863e-01 -0.9418807740 -6.538382e-01 0.6429680045 -3.661874e-01  
## [3697,] -1.534733e+00 -1.2217183590 6.937383e-01 -0.8903033757 -1.109119e+00  
## [3698,] 5.144253e-01 -0.0845586702 -6.697555e-01 0.4971289639 -9.902117e-01  
## [3699,] 6.479681e-01 -0.6168181934 -8.712155e-01 -1.2721190373 1.114965e-01  
## [3700,] 3.101065e-02 -0.1606799385 -2.633534e-01 -0.0198319690 2.851799e-01  
## [3701,] -1.861451e-01 0.0190441884 1.992946e-01 0.1677710807 -7.001816e-01  
## [3702,] -2.904795e-01 -0.9940982650 3.361850e-01 -0.4944685516 -1.362889e-01  
## [3703,] 7.020330e-01 0.6808418730 1.699258e+00 0.3042256145 -1.343238e+00  
## PC16 PC17 PC18 PC19 PC20  
## [1,] 8.338266e-01 0.1272740805 -7.316206e-01 0.1126858521 -0.4062459234  
## [2,] 1.826252e+00 0.1408790258 2.176831e-01 0.1604333508 -0.0596025971  
## [3,] 5.101567e-01 -0.0112048443 -7.420517e-01 0.8138974543 -0.4084296363  
## [4,] -2.649080e+00 1.0326307917 -7.492844e-01 -1.3840443406 -0.0733296306  
## [5,] 1.576303e+00 -0.2208111353 -9.411393e-01 -0.1973706037 -0.3969319522  
## [6,] -3.093904e-01 0.1583603820 1.879664e-01 -0.1557543506 0.4581981896  
## [7,] 9.611623e-01 -1.8806433059 -5.620847e-01 -0.4590721250 0.5955297379  
## [8,] -1.074213e-01 0.0620743891 5.767178e-02 -0.3350927565 0.3822369554  
## [9,] 1.213553e+00 0.1125159058 2.598334e-01 1.1679204668 0.2231971594  
## [10,] 1.119391e+00 2.0325148930 -2.244656e-01 -0.3415463457 -0.4879146340  
## [11,] -2.814676e+00 0.0410751628 -8.548008e-01 -0.0114248966 0.0103708387  
## [12,] 1.017692e+00 0.1955978910 -2.545771e-01 0.1271290002 -0.0957473162  
## [13,] 5.397008e-01 0.0497011244 -4.725355e-01 -0.1429664721 -1.2605398141  
## [14,] 8.992773e-01 -0.1036452885 -1.152206e+00 0.0559100441 -0.7288222309  
## [15,] 1.569708e+00 -0.0012351096 -3.697586e-01 0.0137200559 -0.3472510389  
## [16,] 6.641237e-01 -0.6485059675 -1.609272e-01 0.2523583426 0.0889094899  
## [17,] 2.357483e+00 -0.6971372063 1.856807e+00 -0.2538954746 1.1158244650  
## [18,] -3.027965e+00 -0.9435486266 5.491991e-01 -0.7501061597 -0.2339824771  
## [19,] 7.321579e-01 -0.0030328643 -5.390655e-01 0.0060102532 -1.0114722661  
## [20,] 6.391518e-01 -0.3666824875 7.343274e-02 -0.5933794468 0.2768050251  
## [21,] 1.036418e+00 0.0518979239 -1.069437e-01 0.5295449894 -0.4301420861  
## [22,] 3.291505e-01 -1.1978018664 -4.320653e-01 0.9894240803 1.7260398472  
## [23,] 2.380309e-01 0.3002014051 -6.016574e-01 -0.4379865234 -1.2232855992  
## [24,] -2.481263e+00 0.8316025423 -7.998519e-01 -0.0701772474 0.1742101159  
## [25,] 8.019551e-01 1.5737179158 -2.162165e-01 -1.8158735621 -0.4824977911  
## [26,] -7.162519e-01 0.2779799278 1.333769e-01 -0.8431617465 -0.3232049667  
## [27,] 6.671407e-01 -0.3922083023 7.898029e-02 -0.6805678230 0.2251450796  
## [28,] 2.451608e-01 0.3615987801 -8.534222e-01 -0.3902329921 -0.7351414213  
## [29,] 1.133273e+00 -0.6050239865 -4.480071e-01 1.1036999590 0.9320779548  
## [30,] -4.081379e-01 0.0738819844 -1.336632e+00 -1.2621918502 0.3720075080  
## [31,] 3.339232e-01 0.3706217048 -1.231568e+00 0.9171988179 0.2262213432  
## [32,] 3.614897e+00 1.6077962292 6.460070e+00 -2.4004795905 2.9791957354  
## [33,] -4.478396e-02 -2.5671779873 -2.103787e+00 -0.6087760839 1.0873975449  
## [34,] 2.112214e-01 0.0896603022 -1.438805e+00 -0.4012645475 0.0908065221  
## [35,] 6.322870e-01 -0.4282161060 1.102204e-01 -0.5004726828 0.2074277847  
## [36,] 6.763870e-01 -0.4323467042 8.375962e-02 -0.5343241950 0.2491544517  
## [37,] -9.525228e-01 -1.8419325421 -8.420140e-01 -0.8069772958 1.6173250510  
## [38,] -1.427512e+00 0.7731547046 -4.745945e-01 0.0458907199 0.5062053056  
## [39,] 6.268240e-01 -0.3616059921 8.947674e-02 -0.6370455283 0.2051632197  
## [40,] -2.526358e-02 0.4786828389 9.126839e-02 0.4752015829 -0.6453681076  
## [41,] 1.713626e+00 1.7689751167 -6.510369e-01 0.1843887514 0.2153973349  
## [42,] 1.741333e+00 1.8593223336 -3.852607e-01 -0.0329363038 0.1368844940  
## [43,] 1.845656e+00 -0.3034102911 -1.042180e+00 -0.6237892091 -0.7886947564  
## [44,] 9.451996e-01 0.0264346164 -1.281332e+00 0.8271099205 0.0218992050  
## [45,] -6.886644e-01 3.4320309069 8.775749e-01 -0.1394579149 0.3496581782  
## [46,] 1.144132e+00 1.5642018453 -1.264334e+00 -0.2361151055 -0.7309831193  
## [47,] -5.035195e-01 1.0334811000 7.131939e-02 0.5315613578 -0.1639912750  
## [48,] 1.372666e+00 0.2412114748 3.239310e-01 0.2161808062 -0.3059245383  
## [49,] 1.024700e+00 0.1077496987 -6.855942e-01 0.5857987434 -0.1551423424  
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## [51,] 6.401472e-01 -0.0955202736 -7.240361e-01 0.7695374650 -0.5697473216  
## [52,] 1.079871e+00 0.5511146253 -5.288434e-01 -1.1454265869 0.0179210145  
## [53,] -4.455100e-01 0.1667356605 -3.976467e-01 0.0770224830 0.5497265715  
## [54,] 1.319661e+00 1.3365786019 1.357601e+00 -1.0786105225 -0.0393923116  
## [55,] -6.996570e-01 -0.7643442252 2.107084e-01 -0.1868233879 0.6719525942  
## [56,] 4.575530e-01 0.1025290101 -3.843792e-01 0.3160618208 -0.8944616975  
## [57,] -9.418913e-01 0.5815924244 -3.756908e-01 0.5669871109 1.1866416966  
## [58,] -2.589926e+00 -0.3081311760 7.025486e-01 -0.6515258436 -0.1673219962  
## [59,] 8.422416e-01 -0.6423964367 -1.093941e-01 -0.5796769607 -1.3445001955  
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## [61,] 1.237777e+00 -0.1622754399 -4.264196e-01 1.0230365622 0.2053505569  
## [62,] 7.884163e-01 -0.0841306244 -9.769612e-01 0.3683795404 -0.5363503428  
## [63,] 8.005520e-01 -0.1142223524 -7.461202e-01 0.5416029365 -0.6219728384  
## [64,] 3.717845e-01 -0.2188418227 -4.325867e-01 0.8280298085 -0.1304609219  
## [65,] 5.485430e-01 0.1631624643 -5.205449e-01 0.7096030175 -0.3219694843  
## [66,] 2.001803e-01 0.3784076838 -9.117858e-01 0.0822514557 -0.7726370572  
## [67,] -2.220566e-01 0.2854245566 2.005961e-01 0.2006195248 0.7416006485  
## [68,] 6.760017e-01 -0.3757098444 9.280319e-02 -0.8203289098 0.1263686753  
## [69,] 2.406849e+00 -0.0439933561 6.579951e-01 -0.7745554620 0.8750365692  
## [70,] 3.012858e-01 -0.4592765199 -1.223154e-01 -1.0117570629 -0.1392897533  
## [71,] -2.817471e-01 -0.2862678213 3.938526e-01 0.2373744164 0.0034807806  
## [72,] 1.810279e+00 -0.3128995562 2.120638e+00 1.1520261992 0.7574753810  
## [73,] 3.025113e-01 -0.4760623243 -1.095977e-01 -1.0054975885 -0.1648449980  
## [74,] 3.412523e-01 0.1248426341 6.189826e-01 -1.6662579154 0.3354413466  
## [75,] -1.673289e+00 0.2875623812 -4.740808e-01 -1.6033263733 1.3483591107  
## [76,] 7.061003e-02 -0.4233089975 1.583532e-01 -0.2645010083 -0.1711775267  
## [77,] 1.995970e-01 0.5403053607 4.490790e-01 1.0713244767 -0.0218438864  
## [78,] 1.297141e+00 1.1725829699 1.152909e+00 -0.1618960880 0.0844026071  
## [79,] 6.839760e-01 -0.4580352299 1.518164e-01 -0.5808504811 0.1281551995  
## [80,] 7.955555e-01 0.5089819239 -2.905830e-01 0.2754069777 -0.2208277335  
## [81,] 6.505206e-01 -0.4655965162 1.427080e-01 -0.4776804932 0.1497968231  
## [82,] 2.856352e-01 -0.3943719292 -1.531431e-01 -1.0051540438 -0.0402958216  
## [83,] 1.627988e+00 2.0272813208 2.522581e-01 0.2030365410 0.3253813067  
## [84,] -3.537760e-01 0.1364980672 -8.819525e-02 -0.2583747314 0.5928539671  
## [85,] -8.583547e-02 -1.1904528022 -1.284662e+00 -0.8326201770 0.9318335538  
## [86,] 8.126088e-01 0.2189268195 -9.549730e-01 -0.4129040931 -0.9822768439  
## [87,] 1.880111e+00 0.0117802776 9.344109e-01 0.8030094025 -0.0791460603  
## [88,] 1.278904e+00 -0.1419145550 -3.561302e-01 0.5695632139 -0.4539470972  
## [89,] 7.197562e-01 -0.3868682528 -3.729193e-01 -1.7822930277 -1.3410352316  
## [90,] 1.226007e-01 0.1951608080 -5.734829e-01 0.7494265473 -0.5723535547  
## [91,] 5.984987e-01 0.4307440643 2.273393e-02 -0.6020032723 -1.0560783452  
## [92,] 5.772884e-01 -1.5950502480 -1.781389e+00 1.2971442108 1.1555378264  
## [93,] 1.382107e+00 0.6422940301 -6.313953e-01 0.8247467065 1.5037699921  
## [94,] 1.172780e+00 -0.2122062935 -8.235500e-01 0.2640320920 -0.6836909396  
## [95,] -3.171636e-02 -1.2402044477 -2.268270e-01 0.3886068395 -0.5636572367  
## [96,] 1.138727e+00 0.3039245737 1.070700e-01 1.0701622788 0.4670464772  
## [97,] 9.083675e-01 -1.2135587486 -2.064969e+00 -0.7561569350 0.2732679687  
## [98,] -3.984941e-01 0.1247208631 -3.954769e-01 0.0726489330 0.5347292810  
## [99,] -1.702759e-01 0.2274121885 1.679287e-01 0.2597532178 0.7681438715  
## [100,] 8.142667e-02 1.4796880910 -2.630168e-01 -0.6172085768 -0.0799002913  
## [101,] 1.296282e+00 -0.3243833562 3.248665e-01 -0.2451578599 -0.0208925045  
## [102,] 5.826660e-01 0.7525007627 2.311479e+00 -0.6985871186 0.3980647345  
## [103,] 1.603317e-01 -0.3984695023 4.557882e-02 -0.9140933903 -0.1484004133  
## [104,] 7.164044e-01 -0.7800690567 -9.481642e-01 0.6228445184 0.0176870289  
## [105,] 7.581909e-01 0.2553439324 9.074566e-02 0.0474383669 -1.3704168883  
## [106,] 1.078751e+00 0.7669059161 -1.419256e+00 0.1765051166 -0.4964621390  
## [107,] -1.332554e-01 0.0298237775 1.932064e-03 -0.0689202296 0.3273218947  
## [108,] 2.655158e-01 -0.4892546318 -1.034439e-01 -0.8580269840 -0.1195850437  
## [109,] -3.055567e-01 0.2082444128 1.054468e+00 -0.3541976975 -0.6548788876  
## [110,] -3.715658e-02 0.0481220138 -4.091993e-04 -0.2422511929 0.3372384605  
## [111,] -3.312987e-01 -1.6568430058 -9.709905e-01 0.7850058294 1.9094570782  
## [112,] 4.016195e-01 0.5523294773 1.584859e+00 -0.6915130403 0.2208219935  
## [113,] 1.022763e+00 0.5492828732 -4.999204e-01 -1.0900177215 -0.0426898997  
## [114,] 9.397369e-01 -0.0143019619 9.705052e-01 -1.3140778522 1.5168729936  
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## [122,] 1.671123e+00 1.0679779404 1.079252e+00 -0.6879012041 -0.1965832512  
## [123,] 9.537531e-01 -0.1505492517 -7.508910e-01 0.0224211321 -1.0245503879  
## [124,] 2.888692e-01 -1.0621531942 -1.694342e+00 0.0557764713 0.5191183034  
## [125,] 1.654259e+00 -0.8580380641 6.197649e-01 -0.1225910533 1.0286807925  
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## [128,] -1.903967e-01 0.6483361268 -1.006330e+00 -0.4175990333 0.0159149940  
## [129,] -1.085259e-01 0.5296895012 -3.291680e-01 0.3082739863 -0.9342557174  
## [130,] -5.185437e-01 0.0582191890 1.540830e-02 -0.4166131871 -0.2575660551  
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## [132,] -1.167422e-01 -0.1730452350 -1.355436e-01 -0.3548344954 -0.0588455102  
## [133,] 3.234458e-01 0.6487861829 1.741166e+00 -0.8136708433 0.1978975741  
## [134,] -9.607961e-01 0.5767548048 -4.208284e-01 0.7788862583 1.3217264936  
## [135,] 1.094191e-01 0.7910253465 1.824444e+00 -0.7366142382 0.2877835922  
## [136,] -2.695396e-01 -0.0734522471 -1.792838e-01 -0.2334829489 0.0384964678  
## [137,] -2.118006e-01 -0.1912825826 2.286184e-01 0.1762874441 0.1111503157  
## [138,] -6.781052e-02 -0.0220454569 2.176472e-02 -0.1064861947 0.2744114645  
## [139,] 6.234351e-01 0.2837854893 -3.676500e-01 -0.0045255238 -0.6284358304  
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## [1402,] -4.804037e-01 -1.2302707231 7.844544e-01 -0.5683667007 0.1817785180  
## [1403,] -2.601680e-01 0.3275640607 5.943974e-02 -0.7464754243 -0.1690459778  
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## [1756,] -2.872317e-01 0.8329832904 -3.436308e-01 -0.1810274497 1.1249145027  
## [1757,] -9.559518e-01 0.7200967971 -3.069825e-01 -0.6019544206 0.0123254607  
## [1758,] -7.688703e-01 0.1939528053 5.369509e-01 -0.0592532084 -0.4228689142  
## [1759,] -9.269333e-01 -0.6337025204 -5.660983e-01 -0.5320562935 0.2922358684  
## [1760,] 5.354571e-03 0.6622267534 -5.481445e-01 -1.7302721221 1.2179215338  
## [1761,] -1.020060e+00 0.8312172704 -8.974599e-01 0.9325320759 1.5980496565  
## [1762,] 5.912795e-01 0.4976464313 3.698975e-01 -0.4548479025 1.1644784951  
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## [1764,] 6.351186e-01 -0.3811845892 1.354877e+00 0.7579879056 0.4403967308  
## [1765,] -1.637516e-01 -0.1268144616 6.965666e-01 0.9043604327 0.4990199189  
## [1766,] 9.133539e-01 0.2251822957 4.471319e-02 0.0372393301 0.1025714859  
## [1767,] 3.274525e-01 -0.7273962462 -1.561907e-01 0.6409198484 0.2379577119  
## [1768,] 6.450640e-01 0.0701231025 1.728241e+00 0.1179462419 0.2501504383  
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## [1770,] -3.989041e-01 1.0590693532 -6.438443e-01 0.4720753165 0.0618703897  
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## [1773,] -5.877772e-01 -0.0240504338 -3.600880e-01 -0.3828499569 -0.0623120516  
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## [1777,] 7.129807e-01 0.0928049713 -1.122943e+00 0.5700966706 -0.4725023513  
## [1778,] 5.934139e-01 -0.4913724151 -1.075373e+00 0.1567272811 -0.2462231544  
## [1779,] 6.543584e-01 0.0558523230 -1.076182e+00 -0.0072716719 -1.2018366048  
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## [1781,] 1.435127e+00 -0.5454151100 8.341456e-01 0.2062889210 1.2106561585  
## [1782,] -5.897364e-01 0.3924805164 -2.643456e-02 -0.3675268898 -0.0387047453  
## [1783,] -6.259773e-01 0.0211843307 5.413618e-01 -0.5352105059 -0.8566680339  
## [1784,] 7.885982e-01 0.5275484743 1.533732e+00 -1.1076132104 0.5229680933  
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## [1789,] 4.274961e-02 0.4629231077 1.079899e+00 -0.4128475053 -0.0864649719  
## [1790,] -2.003113e-01 -0.7438090611 4.402865e-01 1.1159972177 0.5319680062  
## [1791,] 4.509204e-02 -0.3237883875 1.522175e-02 0.0235916357 -0.0887123885  
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## [1794,] -7.631721e-01 0.0935762903 -1.833510e-01 -0.4670188175 -0.1283252476  
## [1795,] -7.682601e-01 0.2972550996 -2.527100e-01 -0.5857097246 -0.5398815924  
## [1796,] -2.372753e-02 -0.0419556419 -2.875791e-02 0.2923542500 0.3914026822  
## [1797,] -3.114340e-01 -0.0582885850 1.773435e-01 0.2271480356 0.0696304194  
## [1798,] -7.318145e-01 -0.2762158554 -4.460874e-01 0.5190505330 -0.1930109000  
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## [1805,] 5.741025e-01 0.0436661772 -2.192598e-01 -0.4767619704 0.6203237535  
## [1806,] 3.016906e-01 0.0630206072 -1.715380e-01 -0.7392894568 0.3670007669  
## [1807,] 2.936530e-01 0.2066707455 1.626715e-01 0.0214251668 0.7470260635  
## [1808,] -6.495268e-01 0.0258471710 1.196292e-02 0.2238484570 0.2986163418  
## [1809,] 1.758837e-01 0.0471063271 -3.158250e-01 -0.4091414162 0.3574801538  
## [1810,] 1.407795e-01 -0.1951387903 -3.262324e-01 0.9680913711 0.9830671660  
## [1811,] -1.166617e+00 0.9214566896 -1.839105e-01 -0.7050821921 0.0254961137  
## [1812,] -5.874003e-01 -0.2044230001 2.696900e-01 -0.5770274827 0.1634787693  
## [1813,] -4.403321e-01 0.6093204219 -3.267006e-01 0.1628986922 0.9779921996  
## [1814,] -1.535888e-03 0.5342700240 -4.128723e-01 -0.9059106101 0.3577979739  
## [1815,] -5.162144e-02 0.0532203648 5.506314e-01 -1.1139793021 -0.4582859595  
## [1816,] -3.530147e-02 -0.3843227598 -2.002016e-02 0.5262199957 0.0335743597  
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## [1819,] -7.814854e-01 -2.3240223628 -4.917855e-01 -0.6059463695 0.8871041286  
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## [1821,] 4.475159e-02 0.5018957487 -4.145025e-01 -0.8959676277 0.3870257079  
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## [1823,] -8.414143e-01 0.1103002341 -1.869964e-01 -0.3695714610 -0.1138327917  
## [1824,] 3.256511e-01 2.0788833476 -1.055903e+00 1.0664673923 -0.6279837774  
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## [1826,] 5.145797e-01 0.9970337763 5.303614e-01 1.8618692775 -1.2362048711  
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## [1833,] 3.407843e-01 0.0867372943 -1.881454e-01 -0.8079433106 0.3829330322  
## [1834,] -7.681073e-01 1.0455871182 -6.175587e-01 -0.0880639120 1.2644140427  
## [1835,] -3.801427e-01 0.3145665558 -2.289215e-01 -0.3971031227 0.0612298786  
## [1836,] -3.711730e-01 0.1277328699 1.972771e-04 -0.9380650667 -0.3609084887  
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## [1840,] -3.835802e-01 -0.1544577730 1.991627e-01 0.4141099469 -0.1011301218  
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## [1842,] -5.546504e-01 -0.0729593343 2.961405e-01 0.7688660142 0.9623022592  
## [1843,] -7.143798e-01 -3.8512254803 -1.175467e+00 -1.4936469902 0.7067200724  
## [1844,] -2.807634e-01 -0.0225576011 1.250023e+00 -0.4730354255 -1.2665569884  
## [1845,] 3.358073e-01 -0.0741282595 1.963740e-01 -0.3752892555 0.0281120514  
## [1846,] 6.794792e-01 -0.4376788183 7.931322e-02 1.1588515943 1.4619725027  
## [1847,] 2.822431e-01 -0.3563679210 -2.049840e-01 -0.7614234192 0.0461303887  
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## [1877,] -1.658355e+00 1.4043905614 7.066082e-01 -0.3666532763 0.8643402968  
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## [1890,] -1.011914e-01 -0.2625159854 9.207452e-01 -0.5601710957 0.7014410810  
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## [1893,] -2.233978e-01 -0.1868184381 -9.069653e-02 0.4509239250 0.1762677201  
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## [1899,] -2.194961e-01 0.3881413383 2.040442e-02 -0.9488016933 0.5763603424  
## [1900,] -9.777741e-01 0.6924485405 -2.527791e-01 -0.6662247536 -0.1406528379  
## [1901,] -5.206333e-01 0.3709141093 -6.630818e-02 -0.3032008147 0.0694240071  
## [1902,] -4.737857e-01 -0.4364399267 -3.195726e-01 0.3528290134 0.4399549037  
## [1903,] -6.227274e-01 0.4739150165 7.485036e-02 0.1012581099 -0.0663323025  
## [1904,] -1.457562e-01 0.1773190117 -2.017213e-02 -0.7138279117 -0.3542250087  
## [1905,] -2.925945e-01 0.2940217787 -2.803712e-01 -0.3453111813 0.4449227378  
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## [1909,] -5.992341e-01 0.2759369319 1.372165e-01 0.1609212958 0.2760787956  
## [1910,] 7.386448e-01 -0.6387893607 -1.036525e-01 -0.2255758832 -0.1006715508  
## [1911,] 2.705468e-01 -0.0667673971 -1.350700e-01 -0.5239866495 0.0362840287  
## [1912,] -1.365859e+00 1.0124828359 6.809849e-01 -0.0603631942 0.4295966699  
## [1913,] 5.027811e-01 0.0207425086 -3.275490e-01 0.4939158144 -0.9497449829  
## [1914,] -8.869624e-02 0.0985411061 -2.588574e-01 -0.3296762556 -0.5549799117  
## [1915,] 5.762218e-02 -0.4667219859 -1.851791e-01 -0.1417480947 -0.1238775380  
## [1916,] 2.881349e-01 -0.3875437439 5.664072e-01 -1.0733633754 0.7154720512  
## [1917,] 8.080768e-01 0.4194906094 1.514716e+00 -0.9434986623 0.5417458188  
## [1918,] -1.001263e+00 0.7549329891 6.191721e-01 -0.6171343432 0.0600620587  
## [1919,] -1.142254e-01 0.1234019203 -2.317968e-02 -0.6241034085 -0.3345104835  
## [1920,] -2.351208e-01 0.1910856986 6.609607e-01 -1.1369187757 -0.3972584127  
## [1921,] -3.001759e-01 0.0651237675 4.299809e-02 -0.9747707270 -0.4432169887  
## [1922,] -5.993079e-01 0.7400746858 3.378619e-01 -0.3939276014 0.5868899332  
## [1923,] -2.722708e-01 -0.1542300121 -8.219668e-02 0.4366583234 0.1677628276  
## [1924,] 5.939785e-01 -0.0417481467 -2.229269e-01 -0.3648067331 0.5803404342  
## [1925,] -1.582631e+00 1.4006422741 7.749357e-01 -0.5199982910 0.7782418468  
## [1926,] 8.444117e-02 -0.4703384756 5.814418e-02 -1.6414369329 -1.5029271774  
## [1927,] -1.007214e-01 -0.1782152511 3.167695e-01 0.2560096124 0.1708758216  
## [1928,] 5.789309e-02 -0.7920119767 1.071208e+00 -0.7007868546 1.4084290846  
## [1929,] -4.243112e-03 1.1477543918 -3.476968e-01 1.1462887422 0.8613101215  
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## [2119,] -6.302929e-01 0.9283587290 -7.347530e-01 -0.1340951578 1.1798165067  
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## [2469,] -3.702521e-01 0.1976002221 1.080211e+00 -1.4208470632 -1.4633930353  
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## [2471,] -7.154167e-03 -0.1587699429 -3.376625e-01 0.4942947637 0.5106726962  
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## [3003,] -3.098745e-01 0.4074837068 -6.816385e-01 -1.2879614251 0.1759025645  
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## [3005,] -2.749635e-01 0.0436417495 8.508505e-01 0.3461394501 0.0628362808  
## [3006,] -1.497430e-01 -1.4055568563 1.114487e+00 -0.7237554809 0.2000439321  
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## [3009,] -3.511528e-01 0.3179594104 2.073348e-01 0.0233148891 0.3098290633  
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## [3537,] -8.688629e-01 -0.3190959388 -5.907408e-01 0.0056185660 0.4131717092  
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## [3659,] 8.578478e-02 -0.2824377593 7.844866e-02 -0.2818163073 -0.3895507394  
## [3660,] -3.173795e-01 -0.0750512341 -4.920591e-01 1.5548919911 1.4528746455  
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## [3686,] -8.069281e-03 -0.3196852914 -2.310604e-01 0.9111705465 0.6782253356  
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## [6,] 3.179418e-01 3.125608e-02 2.771895e-02 4.535080e-02 -9.351749e-02  
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## [13,] 5.053608e-02 -1.661329e-01 -2.776111e-02 3.277687e-02 3.148265e-02  
## [14,] 5.292314e-02 -1.207985e-01 -5.400683e-02 -2.174851e-01 1.482800e-01  
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## [1825,] 1.438118e-01 -1.513240e-01 -4.010534e-03 1.340552e-01 -1.041366e-01  
## [1826,] 1.056143e+00 3.315020e-01 2.293455e+00 -1.322482e+00 1.401672e-01  
## [1827,] 6.701380e-01 2.989392e-01 2.393168e-01 8.329125e-02 -7.060620e-02  
## [1828,] 1.372089e+00 -1.377553e+00 -6.777113e-01 7.333641e-01 -6.893993e-02  
## [1829,] -6.624525e-01 -4.590701e-02 1.965551e-02 -1.455180e-01 1.487794e-01  
## [1830,] 2.434394e-01 -7.649079e-03 7.532485e-03 6.654283e-02 -2.357836e-01  
## [1831,] -8.394462e-01 -7.363956e-02 1.871736e-01 4.557787e-02 2.454836e-01  
## [1832,] 2.576514e-01 -7.235052e-02 -6.786822e-03 8.342431e-02 -1.484618e-01  
## [1833,] 1.711683e-01 1.810724e-01 2.658232e-02 -7.507519e-02 -9.460829e-03  
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## [1835,] -3.970793e-01 1.318210e-01 6.078101e-02 9.027233e-03 2.285209e-02  
## [1836,] -3.776588e-01 -3.193580e-02 5.817724e-02 -4.276346e-03 1.184279e-01  
## [1837,] -1.860046e-01 8.995898e-02 5.805261e-02 6.789893e-02 -5.865016e-02  
## [1838,] 3.850568e-01 -1.557575e+00 -1.256755e+00 5.080341e-01 8.062839e-03  
## [1839,] 1.040318e-01 -6.918836e-02 1.284115e-01 1.024292e-01 2.634671e-02  
## [1840,] -3.000783e-01 7.943866e-02 3.377989e-01 1.850006e-01 2.215166e-03  
## [1841,] -6.811891e-01 1.128348e-01 6.991040e-02 -1.708528e-01 5.288180e-02  
## [1842,] -1.209101e+00 3.151182e-01 9.229160e-02 4.963553e-02 -5.161029e-01  
## [1843,] 8.182064e-01 -2.240042e-01 -7.439772e-03 -1.014495e-01 -4.964607e-02  
## [1844,] -1.869144e-01 1.792741e-02 1.172935e-01 5.721690e-02 9.680030e-02  
## [1845,] -4.544335e-01 7.829922e-02 5.258989e-02 -1.552011e-01 4.165198e-02  
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## [1847,] 4.179838e-01 -7.679437e-02 1.694432e-01 -3.514399e-02 2.178303e-02  
## [1848,] -5.509433e-02 -7.774421e-02 1.219029e-02 1.015533e-01 -1.623025e-02  
## [1849,] -2.035071e-01 1.139816e-01 3.261038e-01 1.346625e-01 -4.355674e-04  
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## [1851,] -8.760401e-02 4.893183e-02 -8.423200e-02 -3.835814e-02 -1.253398e-01  
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## [1901,] -2.701723e-01 1.746208e-01 1.270482e-02 -4.942617e-02 1.504485e-02  
## [1902,] 2.968398e-01 4.341753e-01 -2.275494e-02 -8.739008e-02 -1.606728e-01  
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## [1905,] 4.741326e-01 -2.905864e-02 6.186254e-02 -8.558987e-02 -5.893195e-02  
## [1906,] 2.672515e-01 3.367090e-01 3.326230e-01 1.923909e-01 -1.854592e-01  
## [1907,] 5.181164e-01 3.799645e-01 -4.555206e-02 -3.161087e-01 -9.227141e-02  
## [1908,] 2.602460e-01 8.143619e-02 2.249790e+00 -1.356330e+00 1.382150e-01  
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## [1910,] 3.153466e-01 -1.227724e-01 1.390327e-03 -1.147774e-01 -1.353710e-01  
## [1911,] -2.206150e-01 -3.968451e-02 -1.770427e-02 8.164177e-03 -7.227492e-02  
## [1912,] 4.083201e-01 -1.568868e+00 -1.202452e+00 5.679585e-01 -3.543290e-03  
## [1913,] 2.893313e-01 -1.362293e-01 -1.135886e-02 1.638807e-01 -9.673687e-02  
## [1914,] 2.755341e-01 1.407948e-01 -1.329207e-01 -1.941647e-02 -9.831168e-02  
## [1915,] -9.739289e-02 -5.329487e-02 1.483741e-01 4.442231e-02 2.201370e-02  
## [1916,] -3.033509e-01 1.903324e-01 3.309236e-01 1.033523e-01 2.169905e-03  
## [1917,] -9.367156e-02 2.512720e-01 4.066776e-01 1.232280e-01 1.532832e-02  
## [1918,] 5.464361e-01 1.568987e-01 2.675760e-02 -3.577970e-02 1.003943e-02  
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## [1932,] -1.597234e-01 -6.667581e-02 5.143283e-03 3.823155e-02 -9.540833e-02  
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## [1940,] 4.237564e-01 2.039828e-01 2.698305e-01 1.856000e-01 -5.029808e-02  
## [1941,] 1.859292e-01 1.078870e-01 -1.920689e-01 -1.367931e-01 -1.570552e-01  
## [1942,] 2.894211e-01 1.899175e-01 2.671767e-02 -6.383107e-02 -7.023467e-02  
## [1943,] 1.405276e-01 5.557073e-02 -3.265426e-02 1.166202e-02 -2.623486e-01  
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## [1949,] 4.812949e-02 -3.782580e-02 1.279185e-01 1.011548e-01 2.884076e-02  
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## [1960,] 8.843964e-02 -5.651283e-02 -3.841507e-01 -4.661559e-01 -2.760503e-01  
## [1961,] 9.942602e-02 -6.169893e-02 -3.829413e-01 -4.652420e-01 -2.784981e-01  
## [1962,] 6.132709e-01 4.749122e-02 4.347367e-01 4.603728e-01 -1.977335e-01  
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## [2155,] -6.406977e-01 7.462790e-02 -5.310292e-03 1.704667e-02 8.868313e-02  
## [2156,] -5.283727e-02 6.896315e-02 1.033714e-01 1.266931e-01 -2.175057e-02  
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## [2158,] -2.172799e-02 6.193469e-02 1.389129e-01 7.482586e-03 5.672281e-02  
## [2159,] 4.239392e-01 2.255538e-01 2.122109e-01 1.469332e-01 -1.014675e-03  
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## [2318,] 1.396879e+00 3.009972e-01 1.219976e-01 -2.998618e-02 1.710275e-01  
## [2319,] 7.758264e-02 7.793881e-02 2.485847e-01 1.172965e-01 -1.073101e-02  
## [2320,] 1.437919e+00 2.116306e-01 7.479358e-02 3.769511e-01 -9.799996e-02  
## [2321,] 1.427663e+00 2.015236e-01 -1.468209e-01 -1.944875e-01 1.015242e-01  
## [2322,] -1.381126e+00 2.039823e-01 8.509846e-02 -2.320515e-01 1.513870e-01  
## [2323,] 1.993319e-01 2.422726e-02 -4.009229e-02 1.031871e-02 -2.245024e-01  
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## [2331,] 4.248520e-01 1.061439e-01 -2.790796e-02 -2.682044e-01 -3.068650e-02  
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## [2483,] 1.133906e-01 3.406156e-02 -1.324647e-02 2.787320e-02 -2.636720e-01  
## [2484,] 2.668520e-01 2.101241e-01 -1.011910e-01 -3.044632e-02 -1.829005e-01  
## [2485,] 3.134031e-01 1.119956e-01 -1.921775e-01 -1.067281e-01 -1.885985e-01  
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## [2493,] 1.343433e-01 3.352873e-01 3.828324e-02 1.688742e-02 -1.596311e-02  
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## [2498,] -6.402958e-01 4.429995e-02 -1.272644e-02 -1.518972e-01 4.313648e-02  
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## [2503,] 1.424882e-01 -1.275407e-01 3.642676e-02 5.455692e-02 -9.137795e-02  
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## [2505,] -1.788350e-01 -2.335607e-01 7.745175e-02 1.057547e-01 3.090817e-02  
## [2506,] 3.978614e-01 8.005009e-02 1.958823e-01 2.570880e-01 -1.010082e-01  
## [2507,] 5.404662e-01 2.013211e-01 -3.729215e-02 -8.170185e-02 2.126095e-02  
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## [2807,] 2.971220e-01 -1.659031e+00 1.102533e+00 -9.144902e-01 3.387555e-01  
## [2808,] -3.443728e-01 -1.030608e-01 -1.220876e-02 4.300821e-03 6.840649e-02  
## [2809,] 4.802686e-01 -7.143627e-02 2.353569e-01 2.133307e-01 -1.611266e-01  
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## [2811,] 9.685583e-01 6.658341e-01 4.792272e-02 -5.348156e-02 -1.119835e-01  
## [2812,] 2.956007e-01 1.480969e-01 1.922079e-01 1.670902e-03 2.147035e-02  
## [2813,] 1.171696e-01 2.517541e-01 -1.040479e-01 -1.447013e-02 -1.007850e-01  
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## [2816,] -5.753929e-01 2.759077e-01 -5.664963e-01 -9.504298e-01 2.876282e-01  
## [2817,] 5.113526e-01 3.817813e-01 -2.131860e-01 -3.144687e-01 -1.090098e-01  
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## [2819,] 2.499901e-01 -3.992736e-01 -2.048270e-01 -4.363065e-01 4.309302e-01  
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## [2831,] -1.377086e-01 1.601753e-01 2.404189e-01 1.481911e-01 -7.182174e-02  
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## [2968,] -5.359475e-01 -7.563565e-02 4.015848e-03 5.745803e-04 -3.253578e-02  
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## [2975,] 1.699066e+00 -3.723888e-01 1.593517e-01 1.890301e-01 -1.077894e-01  
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## [2978,] 3.197230e-01 -4.129319e-01 -1.364440e-01 -3.241951e-01 3.818477e-01  
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## [2982,] -3.046033e-01 8.076973e-02 -8.275300e-02 -1.741517e-01 5.922571e-02  
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## [2986,] -5.597419e-01 -2.674164e-03 -6.693997e-02 -8.147936e-02 4.086913e-03  
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## [2991,] -4.008995e-02 2.556079e-01 -6.296335e-03 5.811727e-02 -1.335420e-01  
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## [2993,] -2.899968e-01 2.870005e+00 -1.019966e+00 9.101727e-01 4.919016e-01  
## [2994,] -2.648851e-01 1.640208e-02 -4.478854e-03 -2.305711e-02 -2.029488e-02  
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## [3018,] -6.369545e-01 -1.753032e-01 5.145241e-02 8.002573e-02 -2.203999e-01  
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## [3460,] -2.211313e-03 2.440050e-03  
## [3461,] 3.306688e-02 7.460600e-03  
## [3462,] 3.467444e-03 1.890924e-02  
## [3463,] -3.850692e-02 1.058786e-02  
## [3464,] -9.011146e-01 6.198662e-01  
## [3465,] 4.254106e-02 1.718176e-03  
## [3466,] 2.654876e-02 3.340940e-02  
## [3467,] -4.748650e-02 -3.219028e-02  
## [3468,] 1.717350e-02 5.514968e-02  
## [3469,] 3.609282e-03 3.235608e-02  
## [3470,] -3.327623e-04 1.625480e-02  
## [3471,] 4.814506e-02 4.807711e-03  
## [3472,] 7.238608e-02 -1.644208e-02  
## [3473,] 4.705825e-02 6.699339e-02  
## [3474,] 3.393558e-02 2.260812e-02  
## [3475,] 4.861983e-02 6.045522e-02  
## [3476,] 3.058347e-02 4.891790e-02  
## [3477,] 8.735905e-02 -3.477951e-02  
## [3478,] -1.021163e-02 1.305326e-02  
## [3479,] 7.613401e-02 5.116940e-02  
## [3480,] 2.762776e-02 4.856220e-02  
## [3481,] 4.991037e-02 6.030013e-02  
## [3482,] 2.189400e-02 -3.488176e-04  
## [3483,] -3.134644e-02 -7.904027e-02  
## [3484,] 5.119303e-02 1.322468e-02  
## [3485,] 4.126159e-02 -7.699544e-04  
## [3486,] 4.509366e-02 4.098971e-02  
## [3487,] 5.159764e-02 1.056958e-02  
## [3488,] -4.158471e-03 1.943646e-02  
## [3489,] -1.497301e-02 -5.412367e-03  
## [3490,] 1.520879e-02 6.294836e-02  
## [3491,] -1.287233e-02 1.444179e-02  
## [3492,] 3.572893e-03 3.301202e-02  
## [3493,] 2.199987e-01 -6.948674e-03  
## [3494,] 4.899683e-02 1.303505e-02  
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## [3496,] 1.772173e-02 2.576941e-02  
## [3497,] -1.077897e-02 5.714328e-03  
## [3498,] 1.569810e-01 -2.282232e-02  
## [3499,] 1.033949e-02 -2.723736e-03  
## [3500,] 3.670357e-02 4.626361e-02  
## [3501,] 2.069818e-02 2.757585e-02  
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## [3505,] 7.327302e-03 3.712661e-02  
## [3506,] -1.304554e-02 3.842888e-02  
## [3507,] 2.240215e-01 -1.292572e-02  
## [3508,] 6.629585e-02 4.594033e-02  
## [3509,] -1.306501e-02 1.754607e-03  
## [3510,] -1.403431e+00 5.076269e-01  
## [3511,] 3.444028e-02 4.860785e-02  
## [3512,] -5.152670e-03 7.631648e-03  
## [3513,] 1.509271e-01 -3.053425e-02  
## [3514,] 7.527124e-03 2.474826e-02  
## [3515,] 3.714874e-02 1.226273e-02  
## [3516,] 5.534238e-02 1.607262e-02  
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## [3521,] -8.368805e-04 2.937070e-02  
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## [3523,] -1.714730e-04 2.052559e-02  
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## [3526,] 5.634553e-02 2.166204e-02  
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## [3533,] 2.391686e-02 3.569867e-02  
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## [3537,] -2.026979e-02 1.184752e-02  
## [3538,] 3.572519e-02 2.488667e-02  
## [3539,] -1.404637e-01 -3.855840e-02  
## [3540,] 1.836971e-01 -4.857251e-03  
## [3541,] 1.850147e-02 2.686497e-02  
## [3542,] -1.134054e+00 5.321367e-01  
## [3543,] 5.798586e-02 9.578482e-02  
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## [3545,] 1.822721e-01 1.480658e-02  
## [3546,] 2.570787e-03 2.685368e-02  
## [3547,] 1.662949e-02 4.995219e-02  
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## [3557,] -9.148517e-01 6.205147e-01  
## [3558,] 9.934190e-03 5.859157e-02  
## [3559,] -3.716550e-02 6.440983e-02  
## [3560,] 1.884051e-02 1.894028e-02  
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## [3563,] 5.667797e-02 2.739257e-02  
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## [3565,] -1.567610e-02 1.758684e-02  
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## [3567,] 3.862046e-02 4.738326e-02  
## [3568,] 3.141500e-02 6.874414e-03  
## [3569,] -3.846357e-01 -1.111075e+00  
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## [3571,] -3.805374e-02 9.695876e-03  
## [3572,] 2.420822e-02 4.463700e-02  
## [3573,] 3.328392e-02 4.828121e-02  
## [3574,] 3.547552e-02 -8.126749e-03  
## [3575,] 5.231192e-02 7.545294e-03  
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## [3577,] 3.995007e-02 3.728505e-03  
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## [3579,] -1.075949e-02 3.998155e-02  
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## [3581,] 8.284560e-03 -7.652448e-03  
## [3582,] -1.273866e+00 3.209320e-01  
## [3583,] 5.946022e-02 1.485584e-02  
## [3584,] 4.211454e-02 3.317356e-02  
## [3585,] 4.646824e-02 6.441605e-02  
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## [3587,] 1.042397e-01 1.090872e-01  
## [3588,] -1.131025e-02 2.943051e-02  
## [3589,] 1.059189e-02 2.239246e-02  
## [3590,] -6.290615e-03 2.251298e-02  
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## [3592,] -9.544285e-04 2.912913e-02  
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## [3595,] 6.136216e-02 1.021417e-02  
## [3596,] 1.738403e-02 2.904304e-02  
## [3597,] 3.776163e-02 -1.016851e-02  
## [3598,] 1.854785e-01 -9.269160e-04  
## [3599,] 6.732160e-02 3.196988e-02  
## [3600,] 3.822843e-02 3.606707e-04  
## [3601,] 5.100880e-01 -6.026163e-01  
## [3602,] 3.055283e-02 2.600319e-03  
## [3603,] 1.464348e-02 2.637810e-02  
## [3604,] 1.579846e-01 -2.456264e-02  
## [3605,] 8.418446e-02 -5.955704e-03  
## [3606,] 5.303457e-03 -3.024478e-02  
## [3607,] 6.403179e-02 2.621920e-02  
## [3608,] -7.905801e-03 -4.757081e-03  
## [3609,] -4.246987e-02 -2.512712e-02  
## [3610,] 4.696946e-02 -2.793077e-03  
## [3611,] 1.259532e-01 1.935847e-02  
## [3612,] 4.031460e-02 4.774169e-02  
## [3613,] 1.499862e-01 1.227780e-02  
## [3614,] -4.125006e-02 5.539531e-02  
## [3615,] 4.966657e-02 1.060655e-02  
## [3616,] 6.149320e-02 4.613143e-02  
## [3617,] 5.815555e-02 1.387653e-02  
## [3618,] 1.519803e-01 -1.288770e-02  
## [3619,] 2.388931e-02 4.313049e-02  
## [3620,] 8.437131e-03 6.017483e-02  
## [3621,] -4.939841e-02 -1.554123e-02  
## [3622,] -3.187563e-02 1.367706e-02  
## [3623,] -1.021996e+00 -1.830077e-01  
## [3624,] 2.868437e-02 4.666866e-02  
## [3625,] -5.832153e-02 -6.123890e-02  
## [3626,] -6.204970e-03 5.052976e-02  
## [3627,] 5.990599e-02 -5.853076e-02  
## [3628,] 2.665106e-03 2.123666e-03  
## [3629,] -1.752330e-02 -8.381863e-03  
## [3630,] -1.285217e-02 4.097367e-02  
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## [3632,] 1.344143e-02 -5.696449e-03  
## [3633,] 3.339195e-02 -2.526866e-02  
## [3634,] -8.971899e-03 -1.237229e-01  
## [3635,] 2.564142e-02 -2.179537e-02  
## [3636,] -9.400432e-03 2.480654e-03  
## [3637,] 4.352114e-02 -8.249359e-03  
## [3638,] -2.921959e-02 1.991822e-02  
## [3639,] -3.239998e-02 2.089044e-02  
## [3640,] -4.539135e-03 2.090893e-02  
## [3641,] 4.719612e-02 -1.010912e-02  
## [3642,] 1.541152e-02 -4.061666e-04  
## [3643,] 4.667576e-02 -5.245904e-03  
## [3644,] 7.383726e-02 2.817631e-02  
## [3645,] 3.764244e-03 9.046688e-03  
## [3646,] 4.339419e-02 3.518574e-02  
## [3647,] 1.197962e-02 1.533323e-02  
## [3648,] 3.590247e-02 3.421659e-02  
## [3649,] 1.996345e-03 1.564507e-04  
## [3650,] 1.102310e-02 2.233741e-02  
## [3651,] 2.929853e-02 3.481569e-02  
## [3652,] -1.264200e+00 3.364635e-01  
## [3653,] 2.039565e-02 2.534025e-02  
## [3654,] 3.922783e-02 6.800554e-02  
## [3655,] -1.485290e-02 -3.425287e-02  
## [3656,] -1.347275e-01 -2.988922e-02  
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## [3662,] -1.179697e-02 2.534260e-02  
## [3663,] 5.164694e-02 1.017575e-03  
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## [3667,] -1.776801e-02 -3.237988e-02  
## [3668,] 1.417198e-02 2.322620e-02  
## [3669,] 1.893209e-02 3.531630e-02  
## [3670,] 3.593606e-02 4.561756e-02  
## [3671,] 6.060640e-02 1.012477e-02  
## [3672,] 1.782087e-02 -3.685755e-02  
## [3673,] 5.989372e-01 4.745972e-01  
## [3674,] 3.386146e-02 7.784934e-03  
## [3675,] 4.107883e-02 4.789710e-03  
## [3676,] 1.517249e-02 -3.736545e-02  
## [3677,] -1.554126e-02 -3.080938e-02  
## [3678,] 4.762415e-02 6.398998e-02  
## [3679,] 7.383582e-02 9.059745e-02  
## [3680,] -5.896787e-02 -1.852839e-01  
## [3681,] 4.812996e-02 3.823976e-02  
## [3682,] 3.877595e-02 7.915903e-03  
## [3683,] -1.006537e+00 -1.728592e-01  
## [3684,] -1.321302e-01 -2.719584e-02  
## [3685,] 5.053981e-02 9.613034e-03  
## [3686,] 1.436186e-02 2.744532e-02  
## [3687,] 4.038657e-02 9.069962e-03  
## [3688,] -1.483723e-02 -1.737685e-02  
## [3689,] 3.279574e-02 -9.448644e-03  
## [3690,] 3.625744e-02 -9.747561e-03  
## [3691,] 4.506629e-01 9.638050e-02  
## [3692,] 1.646579e-03 -2.596226e-02  
## [3693,] 6.221590e-02 5.350668e-02  
## [3694,] 1.567620e-01 -2.261528e-02  
## [3695,] -1.848097e-02 1.543999e-02  
## [3696,] 5.015864e-03 5.304735e-02  
## [3697,] -1.005222e+00 -1.661592e-01  
## [3698,] 3.284571e-02 2.560563e-02  
## [3699,] 1.716404e-02 -3.854114e-02  
## [3700,] 6.548241e-02 2.207210e-02  
## [3701,] -5.097124e-02 4.238421e-02  
## [3702,] 4.313621e-02 -2.525252e-02  
## [3703,] -1.395897e+00 5.027907e-01  
## [ reached getOption("max.print") -- omitted 2257 rows ]

#Remove the flag varibles

pca2 = prcomp(df\_pca[,c(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19)] ,center=TRUE, scale=TRUE)  
summary(pca2)

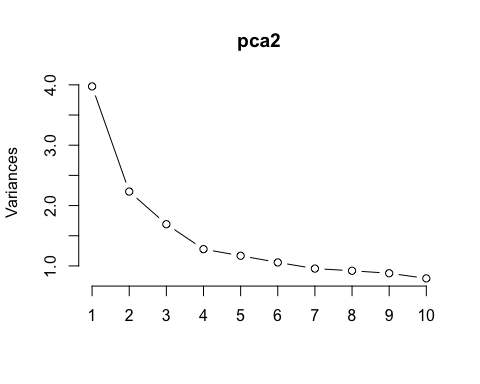
## Importance of components:  
## PC1 PC2 PC3 PC4 PC5 PC6 PC7  
## Standard deviation 1.9936 1.4939 1.3004 1.13050 1.08106 1.02859 0.97776  
## Proportion of Variance 0.2092 0.1175 0.0890 0.06726 0.06151 0.05568 0.05032  
## Cumulative Proportion 0.2092 0.3266 0.4156 0.48290 0.54441 0.60009 0.65041  
## PC8 PC9 PC10 PC11 PC12 PC13 PC14  
## Standard deviation 0.95902 0.93746 0.89068 0.85608 0.83143 0.79368 0.77679  
## Proportion of Variance 0.04841 0.04625 0.04175 0.03857 0.03638 0.03315 0.03176  
## Cumulative Proportion 0.69882 0.74507 0.78682 0.82540 0.86178 0.89493 0.92669  
## PC15 PC16 PC17 PC18 PC19  
## Standard deviation 0.75167 0.57532 0.4358 0.42085 0.36031  
## Proportion of Variance 0.02974 0.01742 0.0100 0.00932 0.00683  
## Cumulative Proportion 0.95643 0.97385 0.9839 0.99317 1.00000

head(pca2)

## $sdev  
## [1] 1.9935667 1.4938826 1.3004131 1.1305002 1.0810619 1.0285866 0.9777590  
## [8] 0.9590154 0.9374575 0.8906850 0.8560804 0.8314313 0.7936821 0.7767863  
## [15] 0.7516714 0.5753151 0.4358106 0.4208532 0.3603072  
##   
## $rotation  
## PC1 PC2 PC3 PC4 PC5  
## LOAN 0.073067236 -0.274860870 0.143828134 0.03735318 0.3848685304  
## IMP\_MORTDUE 0.070238024 -0.551961385 0.083562463 -0.15415579 0.1767721332  
## M\_MORTDUE -0.199279438 0.136818534 0.165726813 0.11200427 0.4899154823  
## IMP\_VALUE 0.100776305 -0.557531636 0.121668607 -0.10174623 0.1664763201  
## M\_VALUE -0.065279398 -0.001501880 -0.250774128 0.24304929 0.4078768117  
## IMP\_YOJ 0.061481766 -0.008289364 0.086843742 0.57113108 -0.1160481951  
## M\_YOJ -0.229428489 0.028566247 0.185723033 0.02759637 0.3234513304  
## IMP\_DEROG -0.182983829 -0.057248985 -0.381162772 0.04525554 0.0970878998  
## M\_DEROG -0.387559044 -0.142902728 -0.070309361 0.02494576 -0.1986883925  
## IMP\_DELINQ -0.112761752 -0.091609955 -0.426665315 0.32649436 0.0115912515  
## M\_DELINQ -0.425194031 -0.096125607 0.002506417 -0.04755769 -0.1088304327  
## IMP\_CLAGE 0.024823798 -0.213452580 0.205193953 0.53165684 -0.1075211600  
## M\_CLAGE -0.379468166 -0.026242714 0.127538480 -0.08140126 0.0003988665  
## IMP\_NINQ -0.007877375 -0.066892874 -0.356290497 -0.25385379 0.0744092792  
## M\_NINQ -0.420640255 -0.082041986 0.054683891 -0.01364507 -0.1020313225  
## IMP\_CLNO 0.059635407 -0.388276826 -0.182755452 0.17783046 -0.3120586371  
## M\_CLNO -0.414255005 -0.070343216 0.092419203 -0.04467791 -0.0883784075  
## IMP\_DEBTINC 0.068600101 -0.178987466 -0.237730067 -0.24059098 -0.1140706042  
## M\_DEBTINC -0.022547229 0.053022070 -0.453983762 0.09471379 0.2487001306  
## PC6 PC7 PC8 PC9 PC10  
## LOAN 0.343513158 0.36487693 -0.197596477 -0.22866138 -0.0007852759  
## IMP\_MORTDUE -0.195334694 -0.13962131 -0.059553387 0.08748645 -0.1179301618  
## M\_MORTDUE 0.185357599 -0.24725866 0.009591641 0.14700390 -0.0947835185  
## IMP\_VALUE -0.187605813 0.01462799 -0.093011261 0.04812866 -0.1729828342  
## M\_VALUE -0.380602511 0.06891073 0.027583321 -0.39450613 0.5973277241  
## IMP\_YOJ 0.096751342 0.57473076 -0.100603756 -0.02782401 -0.2356212236  
## M\_YOJ 0.329795310 -0.13489788 0.441465118 0.03354162 -0.0172434020  
## IMP\_DEROG 0.256621968 -0.16404336 -0.269145432 0.01815483 0.0156841432  
## M\_DEROG 0.119575978 -0.03465103 -0.142136385 -0.12571043 -0.0204761618  
## IMP\_DELINQ -0.003066927 -0.20765988 -0.086978645 -0.11963683 -0.3099554737  
## M\_DELINQ 0.118777264 -0.01676472 -0.143207795 -0.12828642 -0.0157221971  
## IMP\_CLAGE 0.121565460 -0.16226457 0.297463735 0.28690712 0.2329971910  
## M\_CLAGE -0.292982818 0.27342541 0.158582191 0.16878507 0.0413363093  
## IMP\_NINQ 0.326245897 0.35649410 -0.085086260 0.53454325 0.3491297942  
## M\_NINQ 0.022971489 -0.01685402 -0.096735369 -0.07224282 -0.0548285816  
## IMP\_CLNO 0.059670787 -0.19045378 0.131533010 0.11425232 0.2711794633  
## M\_CLNO -0.248440438 0.23476988 0.163926254 0.08081834 0.0458154491  
## IMP\_DEBTINC 0.265942441 0.16600897 0.609940529 -0.44449233 -0.1048853002  
## M\_DEBTINC -0.271007658 0.11760892 0.275220215 0.30459474 -0.4123741971  
## PC11 PC12 PC13 PC14 PC15  
## LOAN 0.40483485 -0.238963104 0.354736034 0.04221928 -0.20178721  
## IMP\_MORTDUE -0.22736654 0.074200415 -0.161113355 -0.01422245 0.04536230  
## M\_MORTDUE -0.50381954 -0.035542137 0.008604354 0.06697740 -0.50207135  
## IMP\_VALUE -0.03125595 0.105819789 -0.093769454 -0.08617612 0.17641977  
## M\_VALUE -0.14239139 0.039646494 -0.020081904 0.03218888 0.14182511  
## IMP\_YOJ -0.26186737 0.221852299 -0.298019637 0.16827608 0.04855226  
## M\_YOJ 0.26693982 0.005283300 -0.369758544 0.26110419 0.44562929  
## IMP\_DEROG 0.29945157 0.680346939 -0.144824627 -0.19003604 -0.17298781  
## M\_DEROG -0.22950643 -0.042521473 0.165321704 -0.02305945 0.19565674  
## IMP\_DELINQ 0.11614996 -0.576473849 -0.316526192 -0.26793898 -0.03232695  
## M\_DELINQ -0.15607414 -0.012205810 0.255012414 0.09137294 0.17498161  
## IMP\_CLAGE 0.01851073 0.053223809 0.329741260 -0.47276817 0.09126408  
## M\_CLAGE 0.20406973 -0.022355666 -0.157522269 -0.20186879 -0.29050148  
## IMP\_NINQ -0.22251156 -0.212517671 -0.119044895 -0.09785772 0.14898173  
## M\_NINQ -0.04237041 -0.001126383 0.158032676 0.14472652 0.13316814  
## IMP\_CLNO 0.10024100 -0.072405409 -0.039194278 0.62036824 -0.34539997  
## M\_CLNO 0.14605946 -0.023866140 -0.116746301 -0.03322661 -0.23528725  
## IMP\_DEBTINC -0.24704606 0.107065933 0.014249396 -0.20356996 -0.18170227  
## M\_DEBTINC 0.05994922 0.105772019 0.460233209 0.22272117 0.11300894  
## PC16 PC17 PC18 PC19  
## LOAN -0.053366984 -0.017161986 0.110041918 0.043069910  
## IMP\_MORTDUE -0.011391014 -0.404079953 0.521080485 0.159054698  
## M\_MORTDUE -0.002450729 0.109505100 -0.106797037 -0.014984290  
## IMP\_VALUE 0.035024118 0.395243602 -0.558619871 -0.144271176  
## M\_VALUE 0.021248090 0.016463632 -0.004303667 -0.021609218  
## IMP\_YOJ 0.019823287 -0.063712936 0.026955713 -0.020022478  
## M\_YOJ -0.089637891 -0.016094221 0.016144468 -0.008562487  
## IMP\_DEROG 0.010520774 -0.010620020 0.009675611 0.028765184  
## M\_DEROG -0.644727175 0.372294027 0.239613959 -0.009649549  
## IMP\_DELINQ 0.082282220 -0.043129558 -0.039493382 0.002276033  
## M\_DELINQ 0.024730047 -0.636341470 -0.453943136 -0.064360121  
## IMP\_CLAGE 0.069327925 -0.036973413 0.016292215 0.033451293  
## M\_CLAGE -0.127721950 -0.108660774 0.106861255 -0.620353165  
## IMP\_NINQ 0.090399384 0.026695559 -0.017784079 0.018170873  
## M\_NINQ 0.721818242 0.312091405 0.298015057 -0.107996960  
## IMP\_CLNO -0.040799174 0.024194195 -0.062108293 -0.111635918  
## M\_CLNO -0.002873167 0.076747058 -0.144416396 0.730755238  
## IMP\_DEBTINC 0.089673145 0.017413313 -0.010080589 -0.036866800  
## M\_DEBTINC -0.060970335 -0.007330223 0.033713951 0.004820447  
##   
## $center  
## LOAN IMP\_MORTDUE M\_MORTDUE IMP\_VALUE M\_VALUE IMP\_YOJ   
## 1.860797e+04 7.299939e+04 8.691275e-02 1.015360e+05 1.879195e-02 8.756166e+00   
## M\_YOJ IMP\_DEROG M\_DEROG IMP\_DELINQ M\_DELINQ IMP\_CLAGE   
## 8.640940e-02 3.431208e-01 1.187919e-01 5.030201e-01 9.731544e-02 1.794683e+02   
## M\_CLAGE IMP\_NINQ M\_NINQ IMP\_CLNO M\_CLNO IMP\_DEBTINC   
## 5.167785e-02 1.170134e+00 8.557047e-02 2.124782e+01 3.724832e-02 3.403929e+01   
## M\_DEBTINC   
## 2.125839e-01   
##   
## $scale  
## LOAN IMP\_MORTDUE M\_MORTDUE IMP\_VALUE M\_VALUE IMP\_YOJ   
## 1.120748e+04 4.255304e+04 2.817308e-01 5.687040e+04 1.358010e-01 7.259424e+00   
## M\_YOJ IMP\_DEROG M\_DEROG IMP\_DELINQ M\_DELINQ IMP\_CLAGE   
## 2.809912e-01 8.300165e-01 3.235707e-01 1.083364e+00 2.964117e-01 8.357281e+01   
## M\_CLAGE IMP\_NINQ M\_NINQ IMP\_CLNO M\_CLNO IMP\_DEBTINC   
## 2.213944e-01 1.653866e+00 2.797522e-01 9.951308e+00 1.893856e-01 7.649022e+00   
## M\_DEBTINC   
## 4.091700e-01   
##   
## $x  
## PC1 PC2 PC3 PC4 PC5  
## [1,] 0.4290662133 2.577840e+00 -1.038554e+00 -0.4291935597 -2.531232e-01  
## [2,] 0.3604417015 1.321803e+00 -1.524855e+00 0.1037763072 -1.364533e-01  
## [3,] 0.3390210954 2.774892e+00 -1.066292e+00 -0.4861323191 -3.544240e-01  
## [4,] -9.7215118959 -1.846459e-01 -1.297791e+00 1.6744432930 3.888483e+00  
## [5,] 0.6519366678 7.711290e-01 -7.021153e-01 -1.1721582491 1.993900e-01  
## [6,] 0.5004835693 2.333176e+00 4.280713e-02 -0.8351714578 -8.023865e-01  
## [7,] -0.3701483666 1.450690e+00 -3.366731e+00 -0.1749225999 1.498907e-01  
## [8,] 0.5184456080 2.406607e+00 2.611604e-01 -0.5950397652 -8.567199e-01  
## [9,] 0.2425906007 1.800754e+00 -1.628616e+00 0.3812379236 -2.816904e-01  
## [10,] -0.0849651109 2.129378e+00 -5.182102e-02 0.5820518784 1.461389e+00  
## [11,] -8.1712258287 -2.468945e-01 -2.492231e+00 2.1993323670 6.636479e-01  
## [12,] 0.3184653663 2.557012e+00 -1.375711e+00 0.1291609935 -3.044916e-01  
## [13,] 0.5199703874 1.515922e+00 -1.574610e+00 -1.0345424379 -4.221161e-01  
## [14,] 0.6270678425 9.093949e-01 -8.737535e-01 -0.5250246675 -3.753127e-01  
## [15,] 0.5194843847 1.140839e+00 -1.107743e+00 -0.1041639252 -1.507237e-01  
## [16,] -0.4641741433 2.187028e+00 -7.076014e-02 1.1614702632 7.038406e-01  
## [17,] -0.3523428573 -1.382002e-01 -4.252598e+00 1.2806464265 1.508947e-01  
## [18,] -8.3862633306 3.441572e-01 -3.949029e-01 3.0298156358 5.150782e-01  
## [19,] 0.4220540201 2.342428e+00 -1.314138e+00 -1.0355907617 -2.713667e-01  
## [20,] 0.6886082416 6.057478e-01 5.499200e-01 -1.4383408188 -2.413974e-01  
## [21,] 0.3396716375 1.983107e+00 -1.491577e+00 -0.5025036641 -2.041280e-01  
## [22,] -1.4730196267 1.862428e+00 -4.890786e-01 -0.9738993048 3.788808e-01  
## [23,] 0.5219960595 2.020796e+00 -1.516801e+00 -0.4117812090 -5.460924e-01  
## [24,] -1.4776777664 1.385582e+00 -3.839371e+00 3.2885236848 2.137573e+00  
## [25,] -1.1532360915 3.161733e+00 -3.193773e-01 -1.2111499721 3.185616e+00  
## [26,] 0.6292675466 1.731481e+00 -2.390864e-01 -0.6261515556 -1.172408e+00  
## [27,] 0.6768047734 7.261288e-01 6.255706e-01 -1.1818236123 -2.724170e-01  
## [28,] 0.5227421679 2.363677e+00 -1.073731e+00 0.6825319299 -7.923962e-01  
## [29,] 0.0583640093 1.915926e+00 -1.616882e+00 1.5160011704 -3.495217e-01  
## [30,] -0.3724740103 2.470162e+00 1.299549e-02 0.3859841182 6.554272e-01  
## [31,] 0.6330024320 1.078823e+00 -3.198508e-01 0.3766292592 -2.066950e-01  
## [32,] -1.1255066896 -1.063832e+00 -8.522916e+00 5.9546104202 -9.789185e-01  
## [33,] -0.3918468031 2.236460e+00 -2.954648e+00 0.2301352322 1.797855e-01  
## [34,] 0.5185631664 1.755433e-01 -1.620072e+00 -0.4443519636 -1.461733e-01  
## [35,] 0.6594167890 6.774373e-01 5.910111e-01 -1.4247589539 -2.066249e-01  
## [36,] 0.6835132622 5.797124e-01 6.388993e-01 -1.3234365290 -2.018332e-01  
## [37,] -0.0890650552 2.040925e+00 -1.357749e+00 -0.0769854642 -5.040916e-01  
## [38,] 0.8816689136 -3.542002e-01 -7.924447e-01 -0.5659627695 -1.662273e+00  
## [39,] 0.7068804131 5.154374e-01 5.193294e-01 -1.4748156055 -2.377633e-01  
## [40,] 0.2816296376 2.917502e+00 -2.149672e+00 -1.8022134760 3.487188e-02  
## [41,] -0.4670392683 3.047596e+00 -6.243856e-01 -0.5397131460 1.936285e+00  
## [42,] -0.4595593440 2.949176e+00 -9.153694e-01 -1.1795399605 2.169536e+00  
## [43,] 0.9723415519 -9.521189e-01 -5.566395e-01 -0.5342754423 3.929907e-02  
## [44,] 0.3936326812 2.394517e+00 -7.592678e-01 -0.2569493891 -3.618213e-01  
## [45,] -0.4373962412 2.722773e+00 -3.372139e+00 -3.3749115078 2.675606e+00  
## [46,] -0.2582968280 2.389544e+00 -4.601144e-01 -0.4751613525 1.421341e+00  
## [47,] 0.5780873007 4.912112e-01 -2.040960e+00 0.4417536356 -5.225311e-01  
## [48,] 0.2441091167 2.267550e+00 -1.675511e+00 -0.0534302776 -1.134946e-01  
## [49,] -0.9430013477 2.327015e-01 -2.141496e+00 1.2849531914 -1.124969e+00  
## [50,] 0.6986768866 1.411394e+00 -5.325189e-01 1.3294856353 -7.452877e-01  
## [51,] 0.4307890759 2.044393e+00 -1.047306e+00 -0.7116879205 -2.245419e-01  
## [52,] -9.2633414669 -3.048013e-02 5.295789e-01 -0.0766933908 8.854899e-01  
## [53,] -0.7165754921 -8.066716e-02 -7.821886e-01 0.5156703784 -1.755937e+00  
## [54,] 0.3552109750 9.627312e-01 -2.511824e+00 2.5003110704 -7.964903e-01  
## [55,] -0.2845933080 2.052391e+00 1.458761e+00 0.5576980915 1.764121e-01  
## [56,] 0.5250651131 1.299659e+00 -1.598460e+00 -1.2353445629 -1.583481e-01  
## [57,] 0.7746877527 6.313646e-01 5.536518e-01 -0.2404711812 -8.461608e-01  
## [58,] -1.7421325902 2.027521e+00 -1.653163e+00 3.9252044328 2.161180e+00  
## [59,] 0.7254880294 -9.126088e-01 -1.256299e+00 -0.1010230505 -2.879128e-01  
## [60,] 0.4402977596 -1.860365e+00 -1.815784e+00 1.6159114620 -8.301577e-01  
## [61,] 0.3225684525 2.105235e+00 -9.660418e-01 -0.1868209983 -8.635443e-03  
## [62,] 0.4988456765 2.228112e+00 -7.172014e-01 0.3038514828 -4.800701e-01  
## [63,] 0.3598601526 2.827169e+00 -9.066052e-01 -0.6338902775 -2.108724e-01  
## [64,] -7.7317150062 -5.048464e-01 -7.024247e-01 -0.3070109873 -2.074720e+00  
## [65,] 0.3908214491 2.396714e+00 -1.214326e+00 -1.4780346362 2.891873e-01  
## [66,] 0.7747636348 6.538966e-02 -8.984443e-01 -0.1493321886 -3.643925e-01  
## [67,] -0.8224874033 -1.308896e-01 -1.244702e+00 0.6909232469 -1.752842e+00  
## [68,] 0.7027462783 6.707168e-01 6.415375e-01 -1.0312593979 -2.812236e-01  
## [69,] -0.0403319222 1.317825e+00 -2.843679e+00 1.2302223905 -1.888244e-01  
## [70,] 0.6418921681 1.458447e+00 1.056926e+00 1.4607216746 -1.058549e+00  
## [71,] 0.3451185251 2.775345e+00 3.313684e-01 -0.5357138399 -6.900438e-01  
## [72,] -0.2379208381 4.290248e-01 -3.725545e+00 1.9545038019 -3.985204e-01  
## [73,] 0.6365702728 1.484527e+00 1.067360e+00 1.4759170938 -1.051346e+00  
## [74,] -9.3130435206 9.368417e-02 2.050197e+00 0.0900840432 4.999593e-01  
## [75,] -0.2417197022 2.117475e+00 9.381393e-01 -0.1243424190 4.334732e-02  
## [76,] 0.4813526433 2.218038e+00 7.133216e-01 0.2639949797 -8.471817e-01  
## [77,] 0.2267639378 2.480332e+00 -2.244748e+00 -0.8737727078 8.232622e-03  
## [78,] 0.2516018415 5.331561e-01 -2.717856e+00 1.3332500530 -6.813487e-01  
## [79,] 0.6729187186 6.582486e-01 6.210060e-01 -1.3939871148 -1.530416e-01  
## [80,] 0.3033336370 2.277110e+00 -1.809822e+00 -0.7267094543 -1.635609e-01  
## [81,] 0.6627401882 6.510300e-01 6.252262e-01 -1.4139723495 -1.513978e-01  
## [82,] 0.6590670541 1.444973e+00 1.053702e+00 1.4851741098 -1.048361e+00  
## [83,] -0.3874604632 1.638046e+00 -1.549575e+00 -0.3922282758 1.989529e+00  
## [84,] 0.5580775649 2.309111e+00 1.963853e-01 -0.5146790045 -9.245946e-01  
## [85,] -0.2143841416 2.212784e+00 -2.647061e+00 0.9015651853 3.707149e-02  
## [86,] 0.5139506604 1.824133e+00 -1.369493e+00 -0.4941257921 -6.017856e-01  
## [87,] 0.1971025378 1.389063e+00 -1.982919e+00 0.0994225625 -7.229647e-02  
## [88,] 0.4723169825 1.214602e+00 -1.118156e+00 -0.0527376634 -2.311969e-01  
## [89,] -0.4404010394 3.018161e+00 -6.000526e-01 -0.7122891161 7.180809e-01  
## [90,] 0.5070374668 1.550232e+00 -1.399502e+00 -0.8257970789 -1.220964e-01  
## [91,] 0.4121017769 2.318946e+00 -1.885274e+00 0.6235744920 -7.914280e-01  
## [92,] 0.1074188756 1.111140e+00 -1.350987e+00 -0.0910175607 3.599302e-01  
## [93,] -2.0112645981 2.500307e+00 7.048709e-01 -0.8703122085 2.072158e+00  
## [94,] 0.5668746763 1.430788e+00 -7.821847e-01 -0.7741573795 -3.810368e-02  
## [95,] 0.1715470903 9.178270e-01 -1.952027e+00 -0.2572707632 -1.230021e-01  
## [96,] -1.4527524398 5.105827e-01 -2.104548e+00 0.1848064890 -3.623684e-03  
## [97,] 0.2012901770 1.194339e+00 -1.698178e+00 0.3811377439 -2.832583e-01  
## [98,] -0.6994849183 -1.506839e-01 -7.020618e-01 0.6555697979 -1.720328e+00  
## [99,] -0.8229186220 -1.866392e-01 -1.090187e+00 0.9914660714 -1.740312e+00  
## [100,] -0.2069855566 2.220664e+00 6.899422e-01 -0.7759833637 9.037079e-01  
## [101,] 0.1208817410 1.394178e+00 -2.557526e+00 -0.3632068473 1.358543e-01  
## [102,] 0.1935566176 6.384020e-01 -1.225613e+00 1.3645723167 -1.044864e+00  
## [103,] 0.6201169700 1.413213e+00 8.966675e-01 1.3120596608 -9.605937e-01  
## [104,] 0.1672049464 2.375068e+00 -1.446829e+00 -1.1624888112 3.026558e-01  
## [105,] 0.6774213078 6.882600e-01 -1.017099e+00 -0.3838631690 -5.370087e-01  
## [106,] -2.5200260669 1.001001e+00 -2.032541e+00 -0.4784863696 -9.986135e-01  
## [107,] 0.7066428076 9.939086e-01 7.603373e-02 -1.3692543857 -7.177609e-01  
## [108,] 0.6174923155 1.556665e+00 1.077125e+00 1.4274935783 -1.018642e+00  
## [109,] 0.7264895266 5.115892e-01 1.204051e-01 -0.6766774920 -1.095076e+00  
## [110,] 0.7091339802 1.076112e+00 1.683678e-01 -1.1355284378 -6.982832e-01  
## [111,] 0.1849926026 9.706327e-01 -6.892476e-02 -0.3343573826 -2.285619e-01  
## [112,] 0.3026146127 8.240143e-01 -6.500239e-01 1.1534697509 -1.090818e+00  
## [113,] -9.2728522572 3.714366e-02 5.245472e-01 -0.0542013924 9.004203e-01  
## [114,] 0.1806085112 1.084399e+00 -1.450256e+00 0.5778610176 -8.201230e-01  
## [115,] 0.4563058022 1.094346e+00 -3.616395e-01 -1.3253035350 -5.402327e-01  
## [116,] -9.2747381165 -3.220417e-02 1.975314e+00 -0.0082485473 4.913450e-01  
## [117,] 0.5227659428 1.486125e+00 -1.022104e+00 -0.5989492931 -2.623149e-01  
## [118,] 0.6967654201 1.024194e+00 1.956292e-01 -1.2004525279 -6.635996e-01  
## [119,] -2.1564701458 2.872593e+00 2.553465e+00 -0.3716383444 1.839305e+00  
## [120,] -2.8308010648 1.927584e-01 -3.559785e+00 1.8967498792 2.086745e+00  
## [121,] 0.3954911659 1.621750e+00 -1.826079e+00 -0.4514172192 -3.577625e-01  
## [122,] 0.3466981500 1.438126e-01 -2.560278e+00 1.3153747955 -6.456392e-01  
## [123,] 0.5212486597 1.847478e+00 -9.566952e-01 -0.6005247232 -2.673833e-01  
## [124,] 0.4011371922 -5.979311e-01 -1.506645e+00 -0.4144326617 4.061273e-01  
## [125,] -0.1236235243 5.378930e-01 -3.364141e+00 -0.4904327207 7.405067e-01  
## [126,] 0.7192454870 5.799309e-01 2.744121e-01 -0.8511684510 -8.375279e-01  
## [127,] 0.2087842962 8.271942e-01 1.881683e-03 -0.2219007979 -2.168834e-01  
## [128,] -2.3509146348 8.787416e-01 -5.096112e-01 -1.1885159209 -1.478342e+00  
## [129,] 0.4703678357 1.742212e+00 -1.472336e+00 -1.5716808820 2.556128e-02  
## [130,] 0.7944671801 5.813571e-02 6.296523e-01 -0.1483778173 -8.193965e-01  
## [131,] 0.0643000249 1.917940e+00 -2.380494e+00 0.2078813112 -1.598310e-01  
## [132,] 0.7111949904 6.595516e-01 3.208863e-01 -0.7929304047 -7.999631e-01  
## [133,] 0.3009223164 8.042481e-01 -7.773474e-01 1.2009822635 -1.024920e+00  
## [134,] 0.8047972173 4.665007e-01 6.406943e-01 -0.1454589569 -7.768077e-01  
## [135,] 0.3218299762 6.148744e-01 -9.873509e-01 1.1465175897 -1.035036e+00  
## [136,] 0.7216616258 6.501077e-01 1.954018e-01 -0.9349378480 -8.643489e-01  
## [137,] 0.4187945182 2.623276e+00 3.257227e-01 -0.8133186179 -6.873631e-01  
## [138,] 0.7099079000 9.751280e-01 1.644068e-01 -1.2262820256 -6.749347e-01  
## [139,] 0.5268872007 1.842690e+00 -1.451727e+00 -0.8760057878 2.474640e-03  
## [140,] -9.3259653454 3.367566e-01 4.629041e-01 0.0043804481 8.244660e-01  
## [141,] 0.3065991437 -1.877103e+00 4.245124e-01 -0.8636808770 1.790149e+00  
## [142,] 0.2255466776 1.102373e+00 -1.391705e+00 -0.8311937755 -4.749204e-01  
## [143,] 0.2234828216 5.995339e-01 -9.321443e-01 1.6741244827 -1.066507e+00  
## [144,] -9.2093402607 -1.671162e-01 1.700948e+00 -0.2602162167 3.567585e-01  
## [145,] -9.2736087805 1.803948e-01 1.638559e+00 -0.1864770271 2.633806e-01  
## [146,] -2.3344914303 8.144168e-01 -5.882702e-01 -1.2313794913 -1.551847e+00  
## [147,] 0.7069767111 9.593188e-01 2.267138e-01 -1.1300088384 -6.651683e-01  
## [148,] -0.1951832271 1.912948e+00 8.988014e-01 -0.1640097607 4.660057e-02  
## [149,] 0.7847468335 5.022415e-02 7.581467e-01 0.1216201560 -8.185028e-01  
## [150,] 0.4046191056 2.798410e+00 -1.007187e+00 -0.6891744131 2.433168e-02  
## [151,] 0.4276282994 2.083583e+00 -1.291330e+00 -1.6970927522 3.114291e-01  
## [152,] 0.5766596581 6.645445e-01 -1.164873e+00 -0.8804896211 2.586462e-01  
## [153,] -7.7817370603 -3.094209e-03 -7.515053e-01 -0.0083478788 -2.227966e+00  
## [154,] 0.6439803182 9.800266e-01 -6.797314e-01 -1.0171661651 2.021503e-01  
## [155,] -7.5134609497 -1.706503e+00 -4.278796e-01 -0.3269578272 -1.716271e+00  
## [156,] -0.1294683664 1.146575e+00 -6.372090e-01 1.2446907338 1.726802e+00  
## [157,] -0.3442571130 2.864156e+00 -7.954422e-01 -1.2777903346 1.973954e+00  
## [158,] 0.4399664992 2.358860e+00 -1.092449e+00 -1.0592754069 7.001717e-02  
## [159,] -0.1238628649 2.083492e+00 -3.693273e-01 -0.3433888627 1.818894e+00  
## [160,] -7.4601000281 -2.272874e+00 -3.710763e-01 -0.7747253874 -1.475384e+00  
## [161,] 0.3390468996 2.991068e+00 -9.937148e-01 -0.8553090548 6.939129e-02  
## [162,] -1.0719671324 2.023789e+00 6.690119e-01 1.2553133375 2.841482e+00  
## [163,] 0.3703331532 2.547169e+00 -1.562046e+00 -1.3400618299 7.290434e-02  
## [164,] 0.5469062900 6.804874e-01 -1.910170e+00 1.4963212244 -1.390846e+00  
## [165,] -8.3255612107 -2.326367e-01 4.533165e-02 0.7681862706 -3.802003e-01  
## [166,] -8.2907956698 -4.249724e-01 8.730456e-02 0.7330861291 -3.227698e-01  
## [167,] 0.5485670794 1.244547e+00 -1.061834e+00 -1.3561524301 3.438982e-01  
## [168,] 0.7341717100 2.083521e-01 -8.576870e-01 1.8789360127 -6.477235e-01  
## [169,] 0.5153077713 2.176579e+00 -6.201355e-01 0.4948648923 -4.382073e-01  
## [170,] -3.8830777680 3.801890e-01 -1.784701e+00 0.4227968250 -1.665297e+00  
## [171,] -0.2006769092 1.931021e+00 -9.885334e-02 0.4205334160 1.494786e+00  
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## [182,] 0.6425578569 7.140405e-01 -1.030047e+00 -0.6852110737 -4.225407e-01  
## [183,] 0.4555346672 1.279023e+00 -1.190931e+00 -0.9316423557 2.070541e-01  
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## [185,] -0.3620388855 1.540403e+00 -3.129125e+00 0.6779571186 2.437889e-02  
## [186,] -0.1864447848 5.346536e-01 -4.063811e+00 2.3199440261 3.075353e+00  
## [187,] -3.8796326746 2.914576e-01 -3.817186e-01 0.4163289209 -2.094093e+00  
## [188,] 0.6208221747 1.154036e+00 -9.412920e-01 -0.6231647619 -2.633023e-01  
## [189,] 0.6535556774 8.827026e-01 -8.685411e-03 -1.7432725163 -2.367767e-01  
## [190,] 0.7330470565 5.878861e-01 2.717969e-01 -0.7934688573 -8.485521e-01  
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## [192,] 0.2790053239 8.398953e-01 -1.188826e+00 -0.5924354277 -6.736070e-01  
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## [194,] 0.6904760535 1.005363e+00 1.685810e-01 -1.3291475347 -6.428716e-01  
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## [197,] 0.4444190971 8.589720e-01 2.914067e-01 -0.4958801333 -3.916307e-01  
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## [205,] 0.7147490606 -1.021521e+00 2.104528e-01 -0.0930121391 -6.537324e-01  
## [206,] 0.2123791083 7.884552e-01 -1.040186e-01 -0.3731339809 -2.689083e-01  
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## [210,] -0.2277147177 1.987453e+00 1.361198e+00 0.4834311736 1.098078e+00  
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## [222,] -3.9090984548 3.581477e-01 -4.438400e-01 0.1704804413 -2.058149e+00  
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## [225,] 0.8895027168 5.024294e-01 5.453852e-01 -0.0318331075 -4.704630e-01  
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## [308,] 0.4118576753 1.165803e+00 -3.375760e+00 -1.0531496282 -5.054177e-01  
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## [310,] -3.5903604043 3.399799e-01 -3.476461e+00 2.8563619241 3.610546e+00  
## [311,] 0.0894090098 1.317857e+00 -2.889550e+00 1.0835111460 2.828104e+00  
## [312,] 0.6117166233 1.864232e+00 -1.100654e+00 0.0531167254 -1.720743e-01  
## [313,] 0.4153688130 2.335166e+00 -1.135127e+00 -1.4050792824 1.797162e-01  
## [314,] 0.2884279319 2.545790e+00 -1.710715e+00 -0.3377288731 1.947147e-02  
## [315,] 0.4420308409 2.089020e+00 -1.733887e+00 -1.0817654721 -2.541597e-01  
## [316,] 0.4059642660 1.175094e+00 -2.544790e+00 -0.1796790018 -7.620029e-01  
## [317,] 1.0173636399 -6.889029e-01 -7.335881e-01 2.5774235058 -1.478576e+00  
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## [320,] 0.6066713985 1.967783e-01 -1.287999e+00 -0.0895780908 -4.372263e-01  
## [321,] 0.6709476141 7.228414e-01 -1.056490e+00 -0.0146652702 -3.604173e-01  
## [322,] 0.3841668769 1.072958e+00 -1.707865e+00 0.0317174561 -2.635149e-01  
## [323,] -5.4787254765 1.269850e+00 -5.326304e-01 -0.0763502623 1.809553e+00  
## [324,] 0.6785915384 1.640436e+00 -3.168148e-01 2.0905956721 -6.860026e-01  
## [325,] 0.1073407487 1.423052e+00 -2.518628e+00 0.5790824915 -2.014433e-01  
## [326,] 0.0852964079 2.426088e+00 -1.953010e+00 0.4797702425 -8.940930e-02  
## [327,] -0.2748046619 -2.491765e+00 -4.605340e+00 -1.7985682411 1.416948e+00  
## [328,] -0.4599273729 1.051018e+00 -1.641967e+00 0.5034551178 1.738935e+00  
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## [330,] -2.1077599478 2.712752e+00 2.472132e+00 -0.4848267733 1.850433e+00  
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## [332,] 0.9491914815 -6.737327e-01 -1.831672e-01 0.2132382296 1.476672e-01  
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## [334,] -9.2845397378 1.214271e-01 5.188724e-01 -0.0255457016 9.211832e-01  
## [335,] 0.9011264417 4.685517e-01 5.403842e-01 0.1072333040 -5.427409e-01  
## [336,] 0.4942159811 1.882794e+00 4.562158e-01 -0.6983985786 -6.084775e-01  
## [337,] -5.4143399761 7.131661e-01 -1.075356e-01 1.2774628110 1.435376e+00  
## [338,] 0.6055272053 1.109873e+00 3.510488e-01 -1.1711369690 -3.525036e-01  
## [339,] -3.8831769096 2.714401e-01 -3.941997e-01 0.3290551865 -2.046589e+00  
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## [360,] 0.8597179521 -5.304008e-01 1.348141e+00 0.1754547975 -1.690536e-01  
## [361,] 1.0442551083 -7.072314e-01 7.956554e-01 2.6565660331 -1.979545e+00  
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## [370,] 0.0863685612 1.351339e+00 -1.929172e+00 -1.2894085905 5.081785e-01  
## [371,] 0.6644515052 4.766810e-01 -3.999854e-01 -0.6566333899 -9.091636e-01  
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## [375,] -7.6893421079 -1.149056e+00 6.053712e-01 -1.2035944978 -2.190808e+00  
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## [378,] 0.0574883284 2.459607e+00 -2.331181e+00 -3.0679745989 2.657257e-01  
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## [384,] 0.8022450523 5.108376e-01 6.894362e-01 -0.0897354312 -7.004994e-01  
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## [386,] -0.7079922340 -1.138314e-01 -7.386482e-01 0.4702218270 -1.627742e+00  
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## [394,] 0.0786784522 2.376824e+00 -2.368364e+00 -3.1378099023 2.678358e-01  
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## [397,] -5.4034490564 6.541487e-01 1.290520e+00 1.4061786553 9.294950e-01  
## [398,] 0.6529933580 9.175195e-01 -2.815993e-01 -1.3892813891 -7.047840e-01  
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## [484,] 0.2722479586 1.005338e+00 -1.128314e+00 0.2038754621 2.980561e-01  
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## [486,] 0.9464849523 -8.704982e-01 -4.116087e-01 -0.2008322919 2.743715e-01  
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## [488,] 0.4493985607 2.248183e+00 -5.029613e-01 0.5331108712 -4.225286e-01  
## [489,] 0.6740517960 1.038989e+00 -1.007924e+00 0.9024337921 -9.176720e-01  
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## [491,] 0.8244711789 2.647498e-01 -9.332656e-01 1.1071144310 -9.056137e-01  
## [492,] 0.5650660033 1.340923e+00 -1.576643e+00 -1.1623922338 -1.392699e-02  
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## [501,] 0.3596966242 1.267903e+00 -1.151326e+00 -1.5015197666 6.508106e-01  
## [502,] 0.6838184096 1.000617e+00 -3.996941e-01 -1.5841763091 -6.422189e-01  
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## [504,] 0.8910878753 -5.459277e-01 1.359296e+00 0.2637784333 -1.568183e-01  
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## [506,] 0.7677657060 1.409872e+00 9.025207e-01 1.6657797365 -1.261283e+00  
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## [512,] 0.0300433599 1.034057e+00 6.554230e-01 0.2272186595 5.353233e-01  
## [513,] 0.3036452295 2.441546e+00 -1.613227e+00 -2.8408905528 8.716419e-02  
## [514,] 0.9834243078 -8.837756e-01 1.039932e+00 -0.2345130167 -2.663874e-01  
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## [660,] -1.3265923476 2.400539e+00 1.135131e-01 -0.9682752483 2.844135e-01  
## [661,] 0.4708746795 2.088094e+00 -8.401836e-01 -0.7561166384 -1.996045e-02  
## [662,] 0.6159083761 1.485884e+00 -8.784910e-01 -0.3789462117 -1.921028e-01  
## [663,] 0.6704973600 9.425851e-01 -1.778122e+00 -0.4266662175 -5.684121e-01  
## [664,] 0.5679315510 1.339049e+00 -8.992895e-01 0.1270859985 2.049294e-01  
## [665,] 0.6986221243 8.516758e-01 -8.057169e-01 -0.3584583281 -1.597527e-01  
## [666,] -2.5452787475 1.953604e+00 -8.114434e-01 0.0109951173 2.585086e+00  
## [667,] -2.0394906308 9.041927e-01 -1.626454e+00 -1.0802234590 9.885530e-01  
## [668,] 0.3669244863 1.307052e+00 -1.470190e+00 1.7349635932 -4.368195e-01  
## [669,] -7.5939604119 -1.375225e+00 -5.182661e-01 -0.6113754009 -1.658348e+00  
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## [671,] 0.5767494866 1.322130e+00 -9.706702e-01 -0.1604360615 -3.358496e-01  
## [672,] 0.6655665029 6.303883e-01 -1.373440e+00 -1.3818316828 9.932883e-02  
## [673,] -2.2335918991 -7.103945e-02 -2.415119e+00 0.0149687407 -7.786174e-01  
## [674,] 0.6174868432 1.478461e+00 -1.005030e+00 -0.2257526345 -1.971659e-01  
## [675,] -1.2351349261 1.670281e-01 -6.116187e+00 3.6057415437 3.021569e+00  
## [676,] -0.8888118843 1.362557e+00 -6.178176e+00 0.7815071809 3.595477e+00  
## [677,] -0.0804615373 5.103686e-01 -3.705082e+00 1.9458507097 2.857502e+00  
## [678,] -0.0516391545 2.459257e+00 -3.715627e+00 -2.5712529893 8.670927e-01  
## [679,] 0.2243854882 1.528787e-02 -2.431946e+00 0.4436908503 2.482610e-01  
## [680,] -0.0810416579 5.411575e-01 -7.819125e-01 -0.2192385585 7.941689e-01  
## [681,] 0.4317784149 2.351700e+00 -2.882437e-02 -1.3166613254 -3.497977e-01  
## [682,] 0.5840200421 1.450433e+00 -4.363298e-01 -1.7702571732 -3.913775e-01  
## [683,] 0.4436088052 1.329077e-01 -3.224290e-01 0.6607057254 -3.609262e-01  
## [684,] 1.1602322957 -1.006092e+00 7.125502e-01 2.3698144383 -1.607782e+00  
## [685,] 0.5051299476 1.052179e+00 3.528873e-02 -0.3825845652 -6.681642e-01  
## [686,] -1.8045832123 9.153286e-01 1.176445e-01 -1.2179194908 3.619739e-01  
## [687,] -0.2838553669 1.470944e+00 -4.752683e-01 1.2178911989 1.665163e+00  
## [688,] -7.4637988464 -1.763630e+00 4.725456e-01 -0.9549513860 -2.313871e+00  
## [689,] 0.7129770079 4.622750e-01 2.169251e-01 -0.3028276221 -7.530916e-01  
## [690,] -0.1546393515 2.253691e+00 8.981364e-01 -1.4602943048 1.639406e+00  
## [691,] 0.6866130421 4.293870e-01 -4.398658e-01 -0.7054681687 -8.820443e-01  
## [692,] -0.6582022098 1.033657e-01 -4.543053e-01 -1.2185441080 3.979656e-01  
## [693,] 0.5006471552 1.855475e+00 4.935120e-01 -0.6494953729 -5.512251e-01  
## [694,] 1.2040854347 -1.172685e+00 5.227670e-01 2.5043099503 -1.654368e+00  
## [695,] 0.5002622269 1.105426e+00 -1.352517e+00 -2.3856615069 -1.236543e-01  
## [696,] 0.9616151839 -9.396120e-02 6.011538e-01 1.1616589226 -1.137098e+00  
## [697,] 0.7493544367 3.973449e-01 3.575136e-01 -0.8689606731 -6.418326e-01  
## [698,] 0.5096990704 1.846672e+00 6.046327e-01 -0.4127318537 -5.399890e-01  
## [699,] 0.6532668104 8.858563e-01 8.199191e-01 -0.2160482823 -5.307002e-01  
## [700,] 0.5714653861 1.456557e+00 -1.214603e+00 -1.0017358914 1.378024e-01  
## [701,] 0.6637186493 9.633798e-01 6.635126e-01 -0.4608594493 -5.288655e-01  
## [702,] 0.2104150286 2.535663e+00 1.189849e-03 -0.7026167213 -3.261156e-01  
## [703,] -8.6493597723 3.469237e-01 1.034457e+00 -0.3319193915 -1.565800e+00  
## [704,] 0.7532323021 4.528181e-01 1.419395e-01 -0.7624566315 -9.345436e-01  
## [705,] 0.5055586029 2.167352e+00 8.632887e-01 0.6234894006 -7.878804e-01  
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## [708,] 0.0867733770 2.272175e+00 -2.323126e+00 -3.0715498925 2.945073e-01  
## [709,] 0.6150937782 1.478433e+00 -1.602758e-01 -1.4143319441 -4.350044e-01  
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## [711,] -3.9053102339 4.540052e-01 -3.125770e-01 0.3977222266 -1.930577e+00  
## [712,] -0.0250917963 1.503099e+00 1.311152e+00 0.9626281299 9.591104e-01  
## [713,] -1.7848994917 -2.936573e+00 -7.059370e-01 1.7063548898 -2.651535e+00  
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## [715,] 0.7734178334 -4.569065e-01 3.175968e-01 -0.4783188393 -3.055347e-01  
## [716,] 0.9190260754 -1.956383e-02 4.253347e-01 1.0177162394 -1.492020e+00  
## [717,] -9.4206078114 4.646964e-01 2.381537e+00 0.4771473147 7.376609e-01  
## [718,] 0.4303054799 -2.209788e+00 1.448169e+00 -1.2346589666 1.245626e+00  
## [719,] 0.5299584860 1.399384e+00 5.230594e-01 0.1098513850 -2.056365e-01  
## [720,] 0.4360569131 -2.204569e+00 1.374640e+00 -1.4138947890 1.275199e+00  
## [721,] 0.4578009875 3.560350e-01 -5.182945e-01 2.3626060946 -1.434269e+00  
## [722,] 0.3922658613 1.014991e+00 -9.105689e-01 -0.7978727399 -4.600493e-01  
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## [731,] 0.6129571392 1.388855e+00 4.474720e-01 -1.4087089250 -2.116358e-01  
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## [739,] 0.3889870015 2.316173e+00 1.048703e+00 0.5310384354 -6.990676e-01  
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## [754,] 0.9431699008 3.303620e-01 8.254020e-01 0.3257415413 -4.854153e-01  
## [755,] 0.7594811460 6.937637e-01 -6.097289e-01 -1.3655370728 -6.992146e-01  
## [756,] 0.7680376951 7.152110e-01 7.199846e-02 0.5106703475 -1.453483e+00  
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## [794,] 0.0035680276 1.861673e+00 9.733317e-01 0.7989481930 8.668675e-01  
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## [798,] -0.8332122483 9.303196e-01 -4.526005e+00 0.0158758913 9.095429e-01  
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## [800,] 0.6975639157 8.694194e-01 -6.196773e-01 -1.7741027426 -5.480723e-01  
## [801,] 0.6166511698 1.158561e+00 3.056319e-01 -0.7305014200 -8.076606e-01  
## [802,] 0.9039650001 4.941270e-02 2.368048e-01 0.8782984913 -1.398773e+00  
## [803,] 0.9010520718 3.354717e-01 -6.928658e-02 1.1769719429 -1.419317e+00  
## [804,] 0.6329863825 1.161321e+00 5.990551e-01 0.0574358692 -8.572505e-01  
## [805,] 0.0582612848 1.824999e+00 1.168083e+00 1.2291084935 6.876275e-01  
## [806,] 1.0447920167 -7.982035e-01 5.051838e-01 2.2689901006 -1.856934e+00  
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## [809,] 1.0594241653 -8.046960e-01 6.851449e-01 2.7315984846 -1.888061e+00  
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## [814,] 0.6485545163 9.714832e-01 2.920042e-01 -1.4850223625 -1.694550e-01  
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## [824,] 0.4488171779 -2.285711e+00 1.385367e+00 -1.3576394928 1.259516e+00  
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## [828,] 0.6607901320 1.687821e+00 1.181007e+00 1.4414345166 -8.023019e-01  
## [829,] 1.0322260339 -7.773112e-01 8.502014e-01 2.6194636199 -1.900216e+00  
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## [837,] 0.7707441641 6.607033e-01 -4.109115e-01 -1.1957894841 -7.856934e-01  
## [838,] 0.9951851228 -1.009116e+00 8.002803e-01 -0.4348056573 -1.846366e-01  
## [839,] 0.6026814336 1.177984e+00 4.066109e-01 -0.2074066171 -7.532283e-01  
## [840,] 0.7693635035 7.125797e-01 7.652975e-01 0.8991415667 -1.009780e+00  
## [841,] 0.4814443441 1.390166e+00 -8.037839e-01 -1.4647016000 -3.166138e-01  
## [842,] 0.8684380251 1.269753e-01 -2.199629e-01 0.3869181550 -1.253747e+00  
## [843,] 0.7993308239 6.684245e-01 7.818705e-01 1.1212300240 -1.090523e+00  
## [844,] -0.7270058160 2.011751e-01 1.160293e+00 -1.0851021483 1.133573e-01  
## [845,] 0.6873260240 4.358704e-01 -1.467699e-01 -0.5370414708 -8.371131e-01  
## [846,] 0.3931463654 5.866523e-01 -1.239330e+00 0.0591131727 1.845690e-01  
## [847,] 0.6294088026 1.046469e+00 1.069400e+00 0.2773763289 -5.432599e-01  
## [848,] 0.7644997593 3.973035e-01 -3.494206e-01 -1.6648226758 -5.366854e-01  
## [849,] 0.6422328684 1.685390e+00 1.228706e+00 1.2507173128 -6.516409e-01  
## [850,] -1.0861369855 6.438274e-01 -1.941785e+00 -0.1831379360 -8.862673e-01  
## [851,] 0.7148033062 -1.457788e-01 6.993260e-01 0.1837176303 -7.681161e-01  
## [852,] 0.6600193018 1.244031e+00 4.258724e-01 -0.4917817299 -6.669389e-01  
## [853,] 0.7782798405 2.964104e-01 3.791243e-01 -0.6574108747 -7.169305e-01  
## [854,] -9.2298469006 4.872388e-02 1.601495e+00 -0.2518363907 3.460873e-01  
## [855,] 0.4995573526 9.943672e-01 -1.265070e+00 0.2192441007 -6.406275e-02  
## [856,] 0.4115310880 1.190436e+00 -1.205310e-01 1.4230306162 -9.435160e-01  
## [857,] 0.9670753914 2.611813e-01 5.717593e-01 0.2513385233 -5.041963e-01  
## [858,] -7.6883266826 -1.153750e+00 6.090680e-01 -1.2650634596 -2.113345e+00  
## [859,] 0.7318138762 2.858028e-01 -4.349648e-01 -0.6058331558 -8.877949e-01  
## [860,] 0.5820005090 1.329631e+00 2.390580e-01 -0.9746981854 -2.439832e-01  
## [861,] 1.0289645252 -8.397266e-01 5.693847e-01 2.3263817836 -1.856677e+00  
## [862,] 0.9425853073 1.728416e-01 -1.042382e-01 1.1340633715 -1.410114e+00  
## [863,] 0.6603116097 1.074385e+00 2.967141e-01 -0.6139763892 -8.479052e-01  
## [864,] 0.6091570493 1.354470e+00 4.645055e-01 -1.4734229220 -1.626356e-01  
## [865,] -2.4664531773 8.257797e-01 -1.501730e-01 -1.4580448537 -1.102835e+00  
## [866,] -1.2038535368 5.012794e-01 -2.339662e+00 0.0379371839 -8.691296e-01  
## [867,] 0.7249470620 -1.486559e-01 7.355522e-01 0.4504529270 -8.710549e-01  
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## [869,] -0.3728589235 -7.546577e-01 -5.518320e+00 2.7810511019 3.228130e+00  
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## [891,] 0.7164786112 7.917844e-01 4.406191e-01 -0.1506147691 -7.197775e-01  
## [892,] 0.6990393944 1.009118e+00 -4.301237e-01 -1.4475308442 -4.560784e-01  
## [893,] 0.5638532850 1.334012e+00 2.153818e-01 -1.0605775768 -2.508091e-01  
## [894,] 0.0196852769 -4.483851e-01 -4.041490e+00 2.9093491415 -5.694064e-01  
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## [896,] 0.7830061025 -4.904451e-01 3.839633e-02 -0.0564550050 1.510025e-02  
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## [913,] 0.5160350175 1.005984e+00 -5.984352e-01 -1.2135788340 -4.922067e-01  
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## [917,] 0.5800963321 1.340350e+00 -7.697752e-01 -1.7069400026 8.163670e-01  
## [918,] 0.7277774463 2.693273e-01 -1.436967e+00 -0.9678851503 -1.842685e-01  
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## [927,] 0.5288063563 1.455307e+00 -9.575356e-01 1.0179666948 -9.446429e-01  
## [928,] 0.6538053247 1.294112e+00 4.487890e-01 -0.5541955479 -6.153633e-01  
## [929,] -7.6591542750 -5.925270e-01 1.383096e-01 -1.0469366662 -2.637065e+00  
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## [932,] -3.7321025922 -3.394292e-01 -9.968015e-01 -0.7537376649 -2.063966e+00  
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## [934,] 0.7830274555 5.605308e-01 -7.537997e-01 -0.8439096232 -1.154268e+00  
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## [964,] 0.7816169145 2.962426e-01 -3.623203e-01 -1.8541950220 -4.447765e-01  
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## [975,] -3.7100734797 -3.910094e-01 -1.048428e+00 -0.7725567219 -2.080590e+00  
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## [977,] 0.5577135430 1.392992e+00 5.644367e-01 -1.8240101041 3.729795e-01  
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## [1004,] 1.0232188279 -1.068507e+00 9.645016e-01 -0.3521826511 -2.454052e-01  
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## [1012,] 0.8162624083 9.379080e-01 7.624961e-01 0.8130901848 -8.848736e-01  
## [1013,] 0.8718558615 -8.847236e-02 2.556759e-01 -0.8929324299 -4.632990e-01  
## [1014,] 0.9143232965 2.934066e-01 1.087201e-02 1.3139567745 -1.376617e+00  
## [1015,] 0.7295555428 -1.933262e-01 9.444677e-01 0.3884648093 -8.176982e-01  
## [1016,] 0.7594637602 5.932697e-01 1.003507e-01 -0.3529424329 -1.135605e+00  
## [1017,] 0.7500992228 -3.319254e-01 -3.941909e-01 0.5917414281 -4.363382e-01  
## [1018,] 0.5300060817 1.046891e+00 -2.699278e+00 -2.1422467904 2.705912e-01  
## [1019,] 0.3935613742 2.350833e+00 5.759386e-01 -1.1207278004 -2.294147e-01  
## [1020,] 0.8963087881 -3.461261e-01 7.943609e-01 -0.4900621996 -3.154243e-01  
## [1021,] 0.5052061946 2.026860e+00 2.962022e-01 -1.0345342209 -2.938925e-01  
## [1022,] 0.6292454859 1.215267e+00 -3.934062e-01 -1.0924892230 -1.128940e+00  
## [1023,] 0.5347088111 1.863302e+00 4.360797e-01 -1.0592480955 -3.542607e-01  
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## [1025,] 0.3780063140 1.404691e-01 -9.216097e-01 2.5089264614 -1.332095e+00  
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## [1029,] 0.5760181419 1.557646e+00 4.213652e-01 -1.5766797912 -1.419133e-01  
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## [1031,] -2.6791038523 7.892917e-01 -6.729144e-01 -1.3228012819 -1.084161e+00  
## [1032,] -1.1835846906 4.879958e-01 -2.065790e+00 0.3326129414 -9.007370e-01  
## [1033,] 0.6568054902 1.328548e+00 4.130737e-01 -0.4946538203 -6.394513e-01  
## [1034,] 0.7719277664 6.729923e-01 6.629362e-01 -0.3926218417 -4.697641e-01  
## [1035,] -0.2265422816 2.800728e+00 -2.647032e-01 -0.6975977329 2.273043e+00  
## [1036,] 0.4148592991 9.094412e-01 -1.035717e+00 -1.1253027071 -3.847161e-01  
## [1037,] 0.6214577606 1.871628e+00 5.651008e-01 -0.1166765087 -5.761208e-01  
## [1038,] 0.7720600174 4.749920e-01 3.352832e-02 -0.5135829636 -1.124914e+00  
## [1039,] 0.6632365297 9.660062e-01 2.692489e-01 -0.7750902350 -7.992695e-01  
## [1040,] -0.7404681218 2.805763e-01 1.250602e+00 -0.9196834419 1.514084e-01  
## [1041,] 0.6814895647 -1.442350e-02 -8.566220e-02 -0.3340851407 -8.570908e-01  
## [1042,] 0.2041879700 -4.487644e-01 -1.348512e+00 2.0844748401 -1.120197e+00  
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## [1046,] 0.4712553503 2.694069e-01 -5.180140e-01 2.2121017090 -1.330985e+00  
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## [1062,] 0.5718227096 4.587562e-01 -1.591653e+00 0.0230221418 -3.219108e-01  
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## [1064,] 0.0747332024 1.050733e+00 -1.872329e+00 1.7287955732 -4.404452e-01  
## [1065,] 0.8158032211 2.982788e-01 -7.978028e-01 1.0563863296 -6.848390e-01  
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## [1105,] 0.7879168537 6.635782e-01 1.058391e-01 0.5199006942 -1.369234e+00  
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## [1115,] 0.8932724632 -7.391913e-01 1.140371e+00 -1.2629661013 3.921071e-01  
## [1116,] 0.2197220085 9.138852e-01 -6.111090e-01 -1.4863761731 -2.122527e-02  
## [1117,] 0.5406241069 1.460652e+00 2.254549e-01 -1.0936057727 -1.936305e-01  
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## [1119,] 0.9087515669 -7.521991e-01 8.184544e-01 -1.3870069671 3.230337e-01  
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## [1122,] 0.8093281160 9.185226e-01 7.710133e-01 0.7929271660 -8.725465e-01  
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## [1142,] 0.5048698586 2.059330e+00 -9.650460e-01 -0.2303163536 5.293233e-02  
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## [1144,] 0.5707702383 1.984300e+00 -9.379020e-01 0.2479590263 -9.870030e-02  
## [1145,] -9.6660960949 -3.931064e-01 -1.188709e+00 1.7027727643 4.180376e+00  
## [1146,] -0.5227718443 -1.628435e+00 -8.856200e-02 -2.2204117691 1.184747e+00  
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## [1181,] 0.8603060452 3.393426e-01 -4.755781e-01 0.7773183407 -2.823487e-01  
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## [1186,] 0.1633585709 1.694100e-01 -2.578243e+00 1.8762818375 -7.258768e-01  
## [1187,] -1.0530303614 2.434565e+00 -1.963606e+00 -0.6153464278 1.618478e+00  
## [1188,] 1.0732550669 -5.137253e-01 -8.356714e-02 2.4952083221 -5.106220e-01  
## [1189,] 0.6040035370 1.195244e+00 -4.606693e-01 0.4900529374 -3.240834e-01  
## [1190,] 0.4806416557 1.825794e+00 -1.330762e+00 -2.1480246568 8.679032e-01  
## [1191,] -1.5358205209 -1.276223e+00 -5.611004e+00 4.2993434966 -7.718750e-01  
## [1192,] 0.1132728233 -6.621992e-01 -3.390356e+00 0.7044427631 -6.285154e-01  
## [1193,] -1.8055731597 -8.478867e-02 -7.580061e+00 0.5674514943 9.137279e-01  
## [1194,] 0.0112256891 2.256376e+00 -1.646676e+00 -1.3425067502 8.459904e-01  
## [1195,] 0.6963634039 1.655718e+00 -4.613425e-01 1.9150973368 -6.190095e-01  
## [1196,] -2.0540316266 1.870798e-01 -3.371752e+00 -0.2729827587 4.241253e-01  
## [1197,] -1.3631020623 -1.024125e-01 -4.587854e+00 2.0706740330 1.625437e+00  
## [1198,] 0.0279714095 1.481449e+00 2.186476e-01 1.4766927102 1.798970e+00  
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## [1201,] 0.5878990682 1.222372e+00 -7.261842e-01 -0.9946901467 2.318661e-01  
## [1202,] 0.3096008048 7.540307e-01 -1.399335e+00 -0.4374643756 8.927944e-01  
## [1203,] 0.4760044575 1.902011e+00 -3.910850e-01 0.0872625918 1.750424e-01  
## [1204,] 0.9783103096 -1.693815e+00 6.945298e-01 -0.0999282800 -1.884100e-01  
## [1205,] 0.5153198371 1.278747e+00 -7.715938e-01 -1.2861057684 -3.463090e-01  
## [1206,] 1.0436299963 -2.431477e+00 5.363427e-01 1.5212516545 -1.067312e+00  
## [1207,] 0.5971214671 1.434885e+00 -1.938489e+00 -0.7984975278 1.473653e-01  
## [1208,] 0.8852258491 7.999123e-02 -3.029114e-01 0.1300338925 -1.156805e+00  
## [1209,] 0.7742082935 -3.868332e-01 3.229367e-01 -0.4590263864 -2.489594e-01  
## [1210,] -9.2475974822 -1.045646e-01 2.012511e+00 0.0066634896 6.495997e-01  
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## [1212,] 0.9096519300 -7.073365e-01 1.053880e+00 -1.2859646536 3.378894e-01  
## [1213,] 0.7023537826 1.017405e+00 3.350045e-01 1.5539985582 -1.113270e+00  
## [1214,] 0.9110782792 -4.656620e-03 2.657855e-01 -0.1927101199 -5.590243e-01  
## [1215,] 0.5230638517 2.387147e+00 4.375696e-01 -0.9351472697 -3.078386e-01  
## [1216,] 0.4963806056 -1.062254e-01 -1.153849e+00 -0.1969983682 -7.651953e-01  
## [1217,] -1.2615860662 2.591028e+00 1.459484e-02 -0.1352816877 3.330832e+00  
## [1218,] 0.7842178694 3.239041e-01 3.687893e-01 -0.0015268574 -1.014199e+00  
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## [1221,] 0.3671139944 2.322684e-01 -8.457984e-01 2.6615156344 -1.310727e+00  
## [1222,] 0.6090061722 4.178716e-01 -6.742714e-01 2.4464978631 -1.180639e+00  
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## [1237,] 0.2889317606 1.440965e+00 -1.482354e+00 -0.7308995568 2.664601e-01  
## [1238,] -8.6211404831 2.812378e-01 9.984277e-01 -0.3746664948 -1.532743e+00  
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## [1284,] 0.7916577309 2.208015e-01 -3.372533e-01 -1.7129892113 -4.797480e-01  
## [1285,] 0.3866621951 3.951635e-01 -9.394808e-01 2.5417190142 -1.078248e+00  
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## [1293,] 0.7554093074 8.567618e-01 -2.056565e-01 -1.1716078792 -7.177697e-01  
## [1294,] 0.7903005657 4.102080e-01 8.817946e-01 1.0350409492 -1.008576e+00  
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## [1296,] -7.7794983737 -1.018403e-01 2.257796e-01 -0.9415129924 -2.596628e+00  
## [1297,] 0.9362307084 -4.057757e-01 -6.365503e-01 -0.0030885506 -1.309577e+00  
## [1298,] 0.0596623065 -2.518651e-01 -2.344738e+00 0.3383328225 -7.040738e-01  
## [1299,] 0.6049362032 2.006400e+00 5.822241e-01 -0.0635491451 -5.689250e-01  
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## [1301,] 0.6679694049 1.325914e+00 -5.919532e-01 0.0819625137 -5.725819e-02  
## [1302,] 0.5705334625 1.075553e+00 4.317191e-02 1.1620936758 -9.707688e-01  
## [1303,] 0.8771157853 2.987332e-03 -4.862313e-01 -0.9688455946 -5.764496e-01  
## [1304,] 0.7158146403 1.063191e+00 -1.043080e+00 -1.4213814523 -4.684323e-01  
## [1305,] 0.6053917166 1.253331e+00 3.431256e-01 -0.7340566299 -7.192873e-01  
## [1306,] 0.5209350930 1.508617e+00 1.109804e+00 2.8403647479 -8.867309e-01  
## [1307,] 0.0022820401 1.321473e+00 1.137097e+00 0.8574480644 1.068205e+00  
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## [1314,] -0.9360027529 5.814439e-01 -3.523788e+00 -0.2787700997 -8.238891e-01  
## [1315,] 0.8904732600 -1.406589e-02 1.521447e-01 -0.3749892111 -3.790218e-01  
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## [1317,] 0.5798046245 1.297591e+00 5.896155e-01 -0.1849686225 -7.472036e-01  
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## [1319,] 0.4408060835 7.845353e-01 2.599397e-01 0.7940601752 -4.532610e-01  
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## [1322,] 0.7363316502 3.837897e-01 -1.209089e+00 -0.5697449425 -8.775755e-02  
## [1323,] 0.4993250409 1.330334e+00 -1.824753e+00 -0.4208892858 -1.583563e-01  
## [1324,] 0.7549064679 1.496724e+00 1.233259e+00 2.4910258163 -1.146621e+00  
## [1325,] 0.6737827336 1.414009e+00 9.163015e-01 -0.1260456515 -1.871320e-01  
## [1326,] -2.2271628675 -1.637616e+00 -2.167964e+00 -0.7324983375 2.143561e+00  
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## [1343,] 0.7896350082 6.178229e-01 -5.897353e-01 -0.9006673120 -1.111042e+00  
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## [1350,] 0.7201053548 2.245450e-02 -1.990034e+00 -0.4742170149 -5.117083e-01  
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## [1354,] 0.5159097494 1.460189e+00 6.183466e-01 -0.5828568185 -3.230603e-01  
## [1355,] 0.5434691960 1.850237e+00 3.089438e-01 -1.0007088113 -2.802280e-01  
## [1356,] 0.4146668739 1.256764e+00 -5.414874e-02 -1.4829324251 -2.679201e-02  
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## [1359,] 0.8583470493 -5.696695e-02 2.500207e-02 -0.9971886047 -8.763810e-01  
## [1360,] -0.4558478740 -1.575610e+00 -3.097425e-01 1.0124894155 -1.285673e+00  
## [1361,] -0.7290365160 2.688904e-01 1.228874e+00 -0.9422365371 1.635174e-01  
## [1362,] 0.7958013137 2.117267e-01 -4.419842e-01 -2.0143964085 -4.224195e-01  
## [1363,] 0.6135864376 1.530200e+00 5.815743e-01 -0.2383111922 -7.009016e-01  
## [1364,] -3.7333467227 -1.009677e+00 -7.212574e-01 -0.2945197157 -2.118459e+00  
## [1365,] 0.5941737017 1.236620e+00 4.320713e-01 -0.5820866933 -4.927310e-01  
## [1366,] 0.5679375746 1.390769e+00 2.209382e-01 -0.9823358274 -2.317122e-01  
## [1367,] 0.4071526347 -2.699588e-01 -1.681413e+00 -0.1691911576 -7.396613e-01  
## [1368,] 0.6828473781 1.140291e+00 2.916157e-01 -0.4105655423 -5.960717e-01  
## [1369,] 0.7493562355 4.658751e-01 2.372074e-01 -1.6929315660 -2.684031e-01  
## [1370,] 0.8018037912 8.478239e-01 6.375800e-01 0.7282879177 -7.724769e-01  
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## [1375,] 0.4935614572 1.188632e+00 4.453421e-01 -0.0678887591 -3.373490e-01  
## [1376,] 0.5233598920 1.588153e+00 2.449270e-01 -1.3186345024 -2.341153e-01  
## [1377,] 0.5763029607 1.217475e+00 5.970619e-01 0.2616488379 -1.468272e-01  
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## [1379,] 0.5593951886 1.431617e+00 -3.948321e-01 -0.2129501445 1.540145e-01  
## [1380,] 0.8728067838 -1.166081e+00 -2.096288e+00 -1.8235415722 5.030611e-01  
## [1381,] 0.2233850964 1.482311e+00 -2.606363e+00 -1.3741908488 5.836174e-01  
## [1382,] 0.7409268682 3.760746e-01 4.070890e-01 -0.1878261085 -9.019567e-01  
## [1383,] 0.5287197570 1.656236e+00 -1.159761e+00 -1.1289862539 7.997687e-02  
## [1384,] 0.8136388161 5.017466e-01 -5.613501e-01 -0.7532749873 -1.150890e+00  
## [1385,] 0.7304888039 5.086110e-01 -2.198051e-01 2.0263875487 -1.262588e+00  
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## [1388,] 0.7620721308 -3.207169e-01 4.364029e-01 -0.1798694859 -2.595406e-01  
## [1389,] -3.7028030165 -4.039059e-01 -1.084932e+00 -0.8814098045 -2.042806e+00  
## [1390,] 0.8996088036 -1.391349e-01 -3.334695e-01 -0.4689894669 -9.152499e-01  
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## [1393,] 0.9047894775 -2.533175e-02 6.533712e-02 -0.4124898651 -1.070016e+00  
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## [1409,] 0.7215163628 6.998703e-01 4.706260e-01 -0.6351709955 -5.340496e-01  
## [1410,] 0.8120278712 6.168178e-01 4.404610e-01 -0.4788207344 -3.927368e-01  
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## [1492,] 0.7265856947 7.722072e-01 5.264508e-01 -0.4690781069 -5.290333e-01  
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## [1494,] -1.9410548254 2.425950e+00 4.194133e-01 -0.4895988643 2.221397e+00  
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## [1502,] 0.6177642099 5.928044e-01 6.974846e-02 -0.0102105113 -5.764059e-01  
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## [1515,] 0.5367313165 1.283562e+00 -3.033152e-01 -0.8339637162 -6.621059e-01  
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## [1517,] -0.8326105525 2.019042e-01 -2.482932e+00 -0.7260584156 -1.384165e+00  
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## [1530,] 1.2737347801 -2.810514e+00 3.296360e-01 -0.1058999488 -1.086208e+00  
## [1531,] 0.7660361716 2.889265e-01 -6.598685e-01 -0.4318847402 -7.724767e-01  
## [1532,] -4.6931264759 9.996290e-01 4.990246e-01 0.0997629035 4.132882e-01  
## [1533,] 0.5806125356 1.229550e+00 1.035665e+00 2.7425645748 -8.947849e-01  
## [1534,] 0.5580531045 1.448308e+00 4.515694e-01 -0.9193379942 -2.074766e-01  
## [1535,] 0.9558102519 -1.612499e+00 7.429809e-01 -0.1727298430 -7.986097e-02  
## [1536,] 0.5999811822 1.248565e+00 1.989249e-01 -1.1484670352 -1.416955e-01  
## [1537,] 0.5903160443 1.353796e+00 5.180272e-01 -0.7720141444 -1.904347e-01  
## [1538,] -0.8285244758 1.509531e+00 2.472593e+00 1.1871463620 2.394850e+00  
## [1539,] 0.7422008014 5.010934e-01 3.483059e-01 -0.2103638118 -9.155739e-01  
## [1540,] 0.5330310158 3.435243e-01 -8.770419e-01 1.9983743376 -1.074930e+00  
## [1541,] 0.7807406770 1.101100e+00 5.162864e-01 0.9040860936 -9.662925e-01  
## [1542,] 0.8401912246 9.361691e-02 -1.800449e-01 -0.9157040895 -6.977095e-01  
## [1543,] 0.9893029821 -1.805741e+00 7.436821e-01 -0.0697245000 -1.451780e-01  
## [1544,] 0.5965024793 1.225358e+00 5.580146e-01 -0.3313990737 -4.534240e-01  
## [1545,] 0.7244349876 1.087185e+00 -5.504922e-02 1.0203383666 -1.159669e+00  
## [1546,] 0.0750052728 1.735604e+00 1.173851e+00 1.1383517846 7.924899e-01  
## [1547,] 0.2506464692 1.829507e+00 -2.095501e+00 -1.4215770260 4.839373e-01  
## [1548,] 0.0642685880 6.195409e-01 -4.757898e+00 -1.8711745447 7.600038e-01  
## [1549,] 0.0520350964 -2.859699e-01 -2.517321e+00 0.0931154352 -5.370443e-01  
## [1550,] 0.4766151799 1.281349e+00 9.151941e-01 3.4396819008 -9.709553e-01  
## [1551,] 0.7545835266 3.213160e-01 2.947979e-01 -0.7132870730 -5.101870e-01  
## [1552,] 0.9045066768 -7.868216e-01 9.038388e-01 -1.3076996667 4.004899e-01  
## [1553,] 0.3817968486 3.704472e-01 -1.756517e-01 1.3735031141 -6.268196e-01  
## [1554,] -9.6576207372 -4.249886e-01 -1.172026e+00 1.7071055070 4.225018e+00  
## [1555,] 0.8023285134 2.432416e-01 3.280728e-01 -0.8286700657 -6.094291e-01  
## [1556,] -9.2613682409 -9.715012e-02 2.136253e+00 0.1050333658 7.524913e-01  
## [1557,] 0.8549991518 2.816367e-02 7.001920e-02 -0.8322621111 -8.702543e-01  
## [1558,] 0.0771021104 1.640654e+00 1.006973e+00 1.0993599715 8.209512e-01  
## [1559,] -2.3241785536 1.729493e+00 9.101501e-01 -0.3618284523 1.993064e+00  
## [1560,] 0.8605179623 1.350836e-02 -3.033327e-01 -1.0794469900 -7.499890e-01  
## [1561,] 0.6999638161 7.363537e-01 8.114858e-01 -0.2213810879 -4.456178e-01  
## [1562,] 0.5876353483 1.370394e+00 2.326573e-01 -0.9649700965 -1.935535e-01  
## [1563,] 0.8866682067 -1.847592e-02 -4.697620e-01 0.0729753238 -1.106949e+00  
## [1564,] 1.0498474084 -1.547591e+00 1.253217e+00 -0.2775178918 -8.252605e-02  
## [1565,] 0.8355369961 1.118835e+00 2.707105e-01 0.4981422460 -1.127605e+00  
## [1566,] 0.6736337046 1.183968e+00 5.267275e-01 -0.5241362684 -4.982395e-01  
## [1567,] 0.6607077074 1.187426e+00 1.221331e-01 -1.1472556168 -6.468581e-01  
## [1568,] -4.6624321985 1.002442e+00 4.876563e-01 0.2894160581 3.481628e-01  
## [1569,] -0.0577814023 2.435549e+00 1.956341e+00 2.1056434346 1.197223e+00  
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## [1575,] 0.5244854798 1.501811e+00 6.122492e-01 -0.5937266856 -2.845511e-01  
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## [1582,] 0.6918387297 1.164977e+00 4.480821e-01 -0.5432160762 -5.694982e-01  
## [1583,] 0.7869784426 7.758397e-01 5.832116e-01 -0.4911761934 -4.295881e-01  
## [1584,] 0.9226636755 -2.968435e-01 -2.959984e-01 0.3240908556 -1.298853e+00  
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## [1586,] 0.6748780946 5.767717e-01 -3.721456e-02 -0.4322671006 -3.508542e-01  
## [1587,] 0.5013366037 2.488710e+00 -5.090505e-01 0.1263309919 7.903214e-02  
## [1588,] 0.6148693276 1.806689e+00 -5.075778e-01 -0.2171410897 2.785295e-01  
## [1589,] -7.6845195444 -9.698277e-01 -6.168288e-01 -0.8102769560 -1.622959e+00  
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## [1591,] 0.8237878027 6.444958e-02 -2.076323e-01 -0.7512613174 -1.080560e+00  
## [1592,] -3.7178183401 -9.201657e-01 -7.444577e-01 -0.2005426301 -2.120009e+00  
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## [1595,] -0.8284080179 1.501580e+00 2.452220e+00 1.1986681243 2.371095e+00  
## [1596,] 0.5388030061 9.462729e-01 7.352222e-01 0.6474858952 -4.267563e-01  
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## [1598,] -1.9937795543 7.217087e-01 -2.710908e-01 -1.1918417876 6.512810e-01  
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## [1603,] 0.5166467520 1.067870e+00 7.888531e-01 0.3339008081 -1.638663e-01  
## [1604,] 0.9207668007 -8.016997e-02 5.149785e-01 -0.5511906758 -4.697741e-01  
## [1605,] 0.4017519890 2.452269e+00 6.890181e-01 -0.2390268915 -4.763457e-01  
## [1606,] -0.2767584930 2.036421e+00 -1.762093e-01 -0.4697866389 1.175941e+00  
## [1607,] 0.5658639566 1.389466e+00 -1.739988e+00 -1.7346451547 4.474418e-01  
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## [1610,] -0.7096150507 2.987165e-01 -2.065647e+00 -0.8254368432 -1.445438e+00  
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## [1615,] 1.0821101796 -1.685005e+00 1.163400e+00 -0.4208951405 -9.071681e-02  
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## [1617,] -2.4327463929 1.655695e+00 5.411307e-01 -0.0115043921 2.006009e+00  
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## [1620,] 0.8623273493 2.850520e-03 -3.215505e-01 -1.1776588324 -7.028711e-01  
## [1621,] 0.8098075320 9.687786e-01 7.621261e-01 0.7047130913 -7.852671e-01  
## [1622,] 0.9057308989 -5.019098e-03 6.283304e-01 -0.0525459777 -3.837631e-01  
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## [1624,] 0.5946639388 9.374159e-01 -1.892772e+00 0.0418698508 4.420928e-03  
## [1625,] 0.3192632639 1.302859e+00 1.301400e-01 -0.5954353144 -1.731485e-01  
## [1626,] 0.9827024664 -1.091936e-01 2.565213e-01 0.6360306933 -1.383436e+00  
## [1627,] -0.1582170093 1.660892e+00 8.152375e-01 -0.8945437973 5.534401e-01  
## [1628,] -9.2551727091 -9.562142e-02 2.095865e+00 0.0760986911 7.367896e-01  
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## [1631,] 0.5200610359 1.739011e+00 -1.090876e+00 -1.7922455774 7.799917e-01  
## [1632,] 0.0113268086 6.766731e-01 -2.235416e+00 -0.7012674711 4.488134e-01  
## [1633,] 0.8292852490 5.144267e-01 -8.258331e-01 1.0402063490 -3.570584e-01  
## [1634,] 0.5984033314 -1.704572e+00 -2.911751e+00 -1.0263726963 -1.645957e+00  
## [1635,] -8.4875366644 -4.604714e-01 1.026199e+00 -0.6243995179 -1.336118e+00  
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## [1637,] 0.7876491030 4.703957e-01 8.572904e-01 0.9110100574 -9.273528e-01  
## [1638,] 0.4250689798 1.344744e+00 7.009787e-01 2.9357228564 -7.583519e-01  
## [1639,] 0.8117134423 8.415637e-01 8.220454e-01 0.6611302542 -7.153365e-01  
## [1640,] 0.7812948968 2.497776e-01 -3.254285e-01 -1.8268429627 -3.857100e-01  
## [1641,] 0.5999123136 1.123727e+00 3.919522e-01 -0.4223461527 -3.864115e-01  
## [1642,] 0.4374798742 9.542653e-01 -3.222010e-02 0.1532290823 -3.302234e-01  
## [1643,] 0.7666421403 -2.989223e-01 -1.776328e-01 0.8360541113 -4.805874e-01  
## [1644,] 0.9185567052 -1.084484e-01 3.163539e-01 -0.3320268719 -4.036349e-01  
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## [1647,] 0.8807909907 -3.400842e-01 8.273679e-01 -0.6229552271 -1.820263e-01  
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## [1653,] -0.1298360044 1.580617e+00 7.347645e-01 -1.0351448509 5.535569e-01  
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## [1656,] 0.9644377037 -4.603061e-01 -3.141596e-01 0.2799617863 -1.270172e+00  
## [1657,] 0.9318136694 -1.654296e-01 3.227479e-01 -0.4772879015 -5.150155e-01  
## [1658,] -0.4773023954 -1.589941e+00 -5.420634e-01 0.7028481508 -1.174095e+00  
## [1659,] -0.1638765485 1.734224e+00 7.922586e-01 -0.8898192929 5.310722e-01  
## [1660,] 0.7886477037 1.014893e+00 8.882970e-01 1.9749842519 -1.316815e+00  
## [1661,] -0.0033946966 1.365963e+00 1.212880e+00 0.9884216076 1.120944e+00  
## [1662,] 0.9524119238 5.749875e-01 2.518125e-01 0.5341389735 -7.165495e-01  
## [1663,] -3.6989888237 -4.915440e-01 -9.874899e-01 -0.7053861550 -2.020849e+00  
## [1664,] 0.7448973025 -2.133683e-01 -1.314220e-01 0.8877426248 -4.581760e-01  
## [1665,] -0.3919932331 -1.379147e+00 9.842056e-02 0.4965190986 -1.179234e+00  
## [1666,] 0.6646022755 1.137111e+00 -4.117882e-01 0.6396247018 -2.269829e-01  
## [1667,] 0.6430783623 7.436201e-01 -1.127020e+00 -0.6592124780 -4.095500e-04  
## [1668,] 0.8198597295 1.191835e+00 3.968900e-01 0.6896965350 -1.075477e+00  
## [1669,] 0.8394841676 6.152143e-01 2.725479e-01 -0.2408799728 -8.525704e-01  
## [1670,] 0.8086488365 -2.420671e-01 1.964473e-01 0.4253800574 -7.591145e-01  
## [1671,] 1.0108966533 -5.686999e-01 -6.483189e-01 -2.0445418930 -3.005784e-01  
## [1672,] 0.7114996223 1.174728e+00 3.207214e-01 -0.1964672470 -6.066522e-01  
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## [1674,] 0.8245190611 -1.114910e-01 -2.670986e+00 -0.2453046165 8.798230e-02  
## [1675,] -7.4357426619 -1.845618e+00 5.527204e-01 -0.8447793350 -2.187040e+00  
## [1676,] 0.8382746969 7.812386e-01 8.683140e-01 1.8467626375 -1.264606e+00  
## [1677,] 0.6818966072 1.603968e+00 1.308301e+00 1.5409631580 -6.318452e-01  
## [1678,] -0.4842636078 -1.592059e+00 -4.529289e-01 0.7258128959 -1.091453e+00  
## [1679,] 0.6444123692 1.191414e+00 -1.040269e+00 -0.8347809864 1.398528e-01  
## [1680,] 0.6944699923 1.174951e+00 -6.733434e-01 0.1042050339 -1.252734e-01  
## [1681,] 0.7962168633 9.494766e-01 6.813890e-01 1.8693186134 -1.270821e+00  
## [1682,] 0.6028454390 1.506758e+00 4.728024e-01 -0.5391864802 -6.616603e-01  
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## [1685,] 1.2883652294 -2.746399e+00 1.322472e+00 -0.2871575628 1.762677e-01  
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## [1687,] 0.8680362324 -1.504471e-01 9.332568e-01 0.4654677622 -6.459088e-01  
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## [1689,] 0.8019818986 2.400847e-01 -1.107961e-01 -1.6864422628 -4.206105e-01  
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## [1693,] 0.7946182213 4.758546e-01 8.228063e-01 0.9158531387 -9.628836e-01  
## [1694,] 0.9056282718 -6.713730e-02 2.658646e-01 -0.7187724451 -4.605578e-01  
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## [1697,] 0.8323181402 1.185337e+00 4.041565e-01 0.7364118471 -1.076629e+00  
## [1698,] 0.4442883368 1.173014e+00 -1.722886e-01 -0.5002405238 -3.620300e-01  
## [1699,] 0.7123871797 7.798482e-01 6.161264e-01 -0.4039010791 -4.497946e-01  
## [1700,] 0.7454885107 1.127894e+00 -1.679303e-01 0.9106062414 -1.179498e+00  
## [1701,] -0.7379036334 3.640803e-01 -2.076579e+00 -1.0312553845 -1.358240e+00  
## [1702,] 0.0987420897 1.373701e+00 4.642387e-01 1.8540664081 -6.858423e-01  
## [1703,] 0.8175284934 7.808113e-01 6.960595e-01 1.7864844977 -1.226828e+00  
## [1704,] 0.7388286360 1.480389e+00 9.637359e-01 1.9476921190 -1.206195e+00  
## [1705,] -0.3980966852 1.209153e+00 5.375037e-01 0.5839806089 7.744919e-01  
## [1706,] 0.5706028105 1.317236e+00 6.403767e-01 0.3011499149 -7.378363e-02  
## [1707,] 0.8563342296 -2.085134e-01 3.884263e-01 -1.2052860576 -3.496365e-01  
## [1708,] 0.8714953606 -1.136043e-01 4.259582e-01 -0.0201589685 -9.096298e-01  
## [1709,] 0.9013070293 2.995505e-01 -2.740320e-01 -1.4071887017 -6.273255e-01  
## [1710,] 0.7225171493 1.185530e+00 -4.286663e-02 1.0723426859 -1.141410e+00  
## [1711,] 0.1843519872 -4.133701e-01 -2.039607e+00 -0.0402062080 -5.479981e-01  
## [1712,] 0.1841194256 1.028379e+00 -2.062805e+00 0.3861941632 -5.792747e-02  
## [1713,] 0.6419309648 9.838273e-01 -6.422715e-01 -0.9165692316 3.331383e-01  
## [1714,] 0.8445656900 -4.162654e-01 -1.584639e+00 1.1001384204 -6.427680e-01  
## [1715,] -0.7350449154 1.088107e+00 -2.667944e+00 2.4420805158 4.972165e+00  
## [1716,] 0.6189741786 9.958136e-01 -5.162211e-01 0.1934502976 -2.208437e-01  
## [1717,] 0.8841022707 -2.960204e-01 -1.534564e+00 -0.7186328781 3.681315e-01  
## [1718,] 0.5749675412 1.484695e+00 -5.663153e-01 -0.2497526956 6.329158e-02  
## [1719,] -0.8231928805 -2.708094e-01 -2.105775e+00 0.7274119986 -3.137289e-01  
## [1720,] 0.9153580697 -6.242545e-01 -1.248998e+00 -0.2565349107 -5.332182e-02  
## [1721,] 0.6977525446 5.062742e-01 -7.234376e-01 -0.7388293030 1.004520e-01  
## [1722,] 0.1570366236 -1.167808e-01 -2.233771e+00 0.3636997779 7.428646e-02  
## [1723,] -0.4848964695 -2.296036e+00 -2.158834e+00 -0.3706171904 6.208176e-02  
## [1724,] 0.6128510250 1.339124e+00 -5.897623e-01 0.5271194230 -1.890425e-01  
## [1725,] -1.9285586788 2.135096e+00 8.444200e-01 -0.8744930750 2.397347e+00  
## [1726,] 0.7625088179 8.820456e-02 -8.294124e-01 -0.8973206566 2.838421e-01  
## [1727,] 0.6772169061 8.666746e-01 -1.065887e+00 -1.2017095496 4.900203e-01  
## [1728,] 0.7286027071 1.300892e+00 -3.567974e-01 1.1141129125 -2.616859e-01  
## [1729,] 0.5391956792 1.281034e+00 -1.486541e+00 -1.6012106289 5.534002e-01  
## [1730,] 0.4924025570 -2.960980e-01 -1.828892e+00 0.3869058483 1.105312e-01  
## [1731,] 0.5666970196 1.528059e+00 -5.851503e-01 -0.2903037183 6.287614e-02  
## [1732,] 0.8904689861 -4.572725e-01 -1.134734e+00 0.1954794873 -4.020241e-01  
## [1733,] -0.2409721793 1.650885e+00 -5.761923e-01 -0.4804439902 1.120930e+00  
## [1734,] 0.8658465959 1.835365e-01 -1.367974e+00 0.1199190861 -1.502326e-02  
## [1735,] 0.6991726833 3.088444e-01 -1.224436e+00 -0.3527735949 -9.442665e-02  
## [1736,] -8.3085896499 -5.200031e-01 9.012937e-02 0.2971061903 -7.311685e-03  
## [1737,] 0.3742487124 -4.924029e-01 -2.335469e+00 -0.1263582986 3.312835e-02  
## [1738,] 0.7967833343 3.957335e-01 -1.532429e-01 0.2728454020 2.904869e-01  
## [1739,] -1.2365655622 7.265033e-01 -4.631167e+00 5.5133991532 4.821257e+00  
## [1740,] 0.2936487037 4.716557e-01 -1.630379e+00 -0.5312273142 3.911317e-01  
## [1741,] 0.5030790252 1.634513e+00 -6.180097e-01 -0.2788045833 1.388782e-01  
## [1742,] 0.9092467886 -3.438984e-01 -6.052370e-01 -0.4725832673 2.229676e-01  
## [1743,] -2.3389090667 4.628930e-01 -2.341976e+00 -0.2351881391 -9.627262e-01  
## [1744,] 0.8186501540 -3.612438e-01 -8.227617e-01 -1.2113500438 6.519843e-01  
## [1745,] 0.1424603112 9.003513e-01 -2.778682e+00 1.6313006051 3.392091e+00  
## [1746,] -1.1169035637 -1.443925e-01 -3.658443e+00 0.8742432831 -5.173305e-01  
## [1747,] 0.6043900249 7.487154e-02 -1.454102e+00 1.3493274512 -5.436574e-01  
## [1748,] 0.3921278076 2.011878e+00 -1.803500e+00 -0.5478511040 -3.784084e-02  
## [1749,] 0.3511303567 4.760699e-01 -2.301875e+00 3.3915464626 -2.728872e-01  
## [1750,] 0.4034973360 1.273799e+00 -7.632201e-01 -0.5645584349 7.356461e-01  
## [1751,] 0.4693855493 1.436495e+00 -1.403991e+00 -0.3332242771 3.538678e-02  
## [1752,] 0.8717656449 -7.464910e-02 -2.371449e-01 -1.0335381573 -6.963686e-01  
## [1753,] 0.5750618751 -4.839365e-03 -9.622701e-01 0.5392256432 -9.935020e-01  
## [1754,] 0.5849182804 1.382396e+00 1.206693e+00 1.0085193215 -6.609191e-01  
## [1755,] 0.8880228113 -7.196212e-02 6.533814e-01 -0.1495541535 -3.486921e-01  
## [1756,] -0.7861924241 1.365110e+00 2.361478e+00 1.0992216907 2.341326e+00  
## [1757,] 1.0233905320 -8.481193e-01 3.199902e-02 -0.2116287208 -1.052594e+00  
## [1758,] 0.7223517679 4.691499e-01 1.316828e-01 -1.6302878017 -2.038081e-01  
## [1759,] 0.7444640563 -1.995723e-01 -3.200233e-01 0.6523571515 -1.177220e+00  
## [1760,] -1.1382907957 2.302701e+00 1.252479e+00 -0.3936761688 2.730915e+00  
## [1761,] 0.9582481441 2.618933e-01 -2.298700e-01 -0.6516423437 -1.278373e+00  
## [1762,] 0.8264558043 -1.489965e-01 3.810628e-02 0.2069149064 -3.302498e-01  
## [1763,] 0.8327108938 7.484512e-01 7.908553e-01 0.6959394215 -7.628066e-01  
## [1764,] 0.4080786785 1.099619e+00 6.494157e-02 0.3136872408 -3.118365e-01  
## [1765,] 0.6163437315 6.155978e-01 7.311706e-03 -0.1640342649 -5.457848e-01  
## [1766,] -0.5485213724 -1.574881e+00 1.274592e+00 -2.4223867918 8.466416e-01  
## [1767,] 0.5182462472 1.725297e+00 1.289342e+00 0.9017917701 -5.236898e-01  
## [1768,] 0.6147335017 -7.192261e-01 -8.113792e-01 -0.0050347613 -5.040557e-01  
## [1769,] 0.6332857535 1.022147e+00 8.334049e-01 0.2910813267 -7.262078e-01  
## [1770,] -2.1823133814 1.032094e-01 -1.323199e+00 -0.6154766482 -1.765728e+00  
## [1771,] -0.7882837692 -3.698137e-01 -7.053206e-01 0.5624468366 -8.681736e-01  
## [1772,] 0.5820220376 1.391954e+00 7.531704e-01 -0.3857318669 -3.930533e-01  
## [1773,] 0.9843132967 -1.716449e-01 3.428969e-01 0.7143591104 -1.327982e+00  
## [1774,] 0.5631007995 1.506999e+00 8.169652e-01 -0.3259047115 -3.389676e-01  
## [1775,] -3.6855978121 -5.005445e-01 -9.799742e-01 -0.6526597264 -2.020486e+00  
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## [1777,] 0.4801813082 2.439522e+00 -7.148252e-01 -0.1067778328 -6.296886e-02  
## [1778,] 0.3083564374 1.737187e+00 -1.692020e+00 -0.6728095687 1.713559e-01  
## [1779,] 0.7490219487 3.350579e-01 -1.069692e+00 -0.2479671180 -2.987563e-01  
## [1780,] 0.6272877468 1.356224e+00 -5.831784e-02 -2.2996901625 2.401820e-01  
## [1781,] -2.1629951341 2.709807e+00 3.041452e+00 -0.0448194576 2.332667e+00  
## [1782,] 0.8439349588 7.545723e-02 -3.396785e-01 -1.2575597693 -6.822420e-01  
## [1783,] 0.7406217896 3.807349e-01 3.932202e-01 -0.6504461991 -4.021101e-01  
## [1784,] 0.6549655965 3.941435e-01 -5.513008e-01 2.4299077014 -1.157071e+00  
## [1785,] 0.6338819379 8.866440e-01 8.155090e-01 0.0596568581 -6.666907e-01  
## [1786,] 0.9135939628 -8.941200e-02 3.961222e-01 -0.2611050676 -3.332579e-01  
## [1787,] 0.9860823045 -7.036433e-01 -4.654088e-01 -1.1374348098 -1.935102e-01  
## [1788,] -3.6858443740 -1.124536e+00 -6.770076e-01 -0.0577584950 -2.123775e+00  
## [1789,] 0.6475167430 -5.053512e-01 -5.249951e-01 -0.2752092952 -7.002876e-01  
## [1790,] -7.7855354721 -1.939881e-01 1.916468e-01 -1.2098106029 -2.487854e+00  
## [1791,] 0.4206925087 2.573390e+00 8.413950e-01 0.0332836301 -4.085731e-01  
## [1792,] 0.6333614843 1.118114e+00 7.174203e-01 -0.6130379163 -3.585612e-01  
## [1793,] 0.6763161787 1.347980e+00 1.143207e+00 1.0493326758 -5.826357e-01  
## [1794,] 0.9892226633 -2.146553e-01 5.827646e-02 0.4730205157 -1.304488e+00  
## [1795,] 1.0620687079 -1.685623e+00 2.519384e-01 0.0096676421 -1.060711e+00  
## [1796,] 0.6582874500 9.872571e-01 3.056074e-01 -0.8731475672 -4.203878e-01  
## [1797,] 0.7219786699 1.965020e-01 8.437727e-02 -0.4559307441 -5.619921e-01  
## [1798,] 1.1686188863 -2.496245e+00 1.178408e+00 1.2757367850 -1.020553e+00  
## [1799,] 0.7326408676 4.763553e-01 -6.177647e-02 -1.6527332114 -1.723223e-01  
## [1800,] 0.8491491458 -4.695755e-01 -1.400569e+00 -0.7198602978 -1.826042e-02  
## [1801,] 0.8822767031 -1.394217e-01 -5.225380e-01 0.2554927451 -1.009623e-01  
## [1802,] 1.1753087641 -2.877117e+00 1.043415e+00 0.0687542680 2.829362e-01  
## [1803,] 0.6957961809 1.047538e+00 8.242923e-01 0.5507865684 -7.774656e-01  
## [1804,] 0.7046331322 2.331492e-01 -2.100349e-02 -0.7455071888 -5.344852e-01  
## [1805,] 1.2676891906 -2.617399e+00 1.393041e+00 -0.2507520608 2.580712e-01  
## [1806,] 0.8853491884 -2.111077e-02 2.801218e-01 -0.8007522601 -4.091673e-01  
## [1807,] 0.6322235386 1.445566e+00 8.613115e-02 -2.1308278707 1.128710e-01  
## [1808,] 0.6874830323 1.508824e+00 1.243001e+00 1.3263505521 -6.065706e-01  
## [1809,] 0.7647930912 1.014234e+00 6.233750e-01 0.3030409347 -7.490284e-01  
## [1810,] 0.6408927104 1.096550e+00 7.981200e-01 -0.5044977527 -3.175940e-01  
## [1811,] 1.0435161273 -9.432373e-01 -2.577505e-01 -0.3607036695 -1.066650e+00  
## [1812,] 0.5233234276 -5.011265e-01 -8.024050e-01 -0.7136033070 -5.186833e-01  
## [1813,] 0.7726374606 7.168494e-01 6.756392e-01 -0.4922415156 -3.290108e-01  
## [1814,] -0.4617190377 -1.562760e+00 -3.576231e-01 0.8483425941 -1.236718e+00  
## [1815,] 0.8850419381 9.629957e-02 1.352642e-01 0.0170194201 -4.730301e-01  
## [1816,] 0.5008727063 1.816615e+00 5.587021e-01 -0.5153697696 -5.650030e-01  
## [1817,] 0.7472087750 4.183331e-01 4.047084e-01 -0.1956709329 -8.629413e-01  
## [1818,] -0.3424423214 -2.633155e+00 -1.035203e+00 -0.6985046008 -6.556454e-01  
## [1819,] 0.0417095109 1.174771e-01 -1.348098e+00 1.1613894790 -7.254512e-01  
## [1820,] 0.5536467473 1.373743e+00 -3.570617e-01 -1.0174653320 -3.395858e-01  
## [1821,] -0.4759970212 -1.472532e+00 -2.688385e-01 1.0055236077 -1.215750e+00  
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## [1825,] 0.6877706292 5.091758e-01 -8.394083e-01 -0.9853662278 3.127340e-01  
## [1826,] -0.9339254436 5.858718e-01 -1.476192e+00 -0.5264244152 -2.969396e-01  
## [1827,] 0.5629486566 8.189817e-01 -1.671542e+00 1.7765644875 -2.127647e-01  
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## [1829,] 1.0545645820 -1.706606e+00 5.209556e-01 0.0025057764 -9.885182e-01  
## [1830,] 0.5312155826 1.392371e+00 6.333454e-01 -0.6283727794 -2.416705e-01  
## [1831,] 1.2623753242 -2.845910e+00 3.260421e-01 -0.1555290396 -1.072312e+00  
## [1832,] 0.5327016838 2.374959e+00 5.489124e-01 -0.6949148793 -2.653491e-01  
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## [1835,] 0.8763302520 2.652117e-02 -3.792962e-02 -0.9089302084 -7.115398e-01  
## [1836,] 0.8542151292 1.129482e+00 2.578824e-01 0.5888338072 -1.158401e+00  
## [1837,] 0.6566347255 1.019188e+00 3.941192e-01 -0.5518431803 -7.172528e-01  
## [1838,] -0.8161151029 1.681137e-01 -2.494913e+00 -0.7703215422 -1.345462e+00  
## [1839,] 0.9037912911 -5.551003e-01 2.986447e-01 -0.2863667492 -5.034731e-01  
## [1840,] 1.0499302679 -2.508491e+00 7.417323e-01 1.4370938453 -9.649223e-01  
## [1841,] 0.4743438476 -7.596503e-01 -8.941081e-01 -0.0283107990 -5.655025e-01  
## [1842,] -7.5650811464 -1.332599e+00 3.553049e-01 -1.2276803302 -2.252188e+00  
## [1843,] -1.4895260179 1.425113e+00 -3.458803e+00 0.4491290855 1.489360e+00  
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## [1845,] 0.7693506529 -8.018338e-02 2.001989e-01 0.9198536151 -1.059690e+00  
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## [1847,] 0.7274154230 1.545181e+00 1.371396e+00 2.5286391179 -9.947029e-01  
## [1848,] 0.7383616753 5.260749e-01 5.690272e-02 -1.6672305075 -2.323256e-01  
## [1849,] 1.0688532741 -2.541063e+00 8.764536e-01 1.8023665837 -1.003835e+00  
## [1850,] 0.6052149093 1.043760e+00 -4.414452e-01 -0.4500314707 -7.213206e-01  
## [1851,] 0.5923645062 1.507130e+00 5.710073e-01 -0.3960988511 -6.312768e-01  
## [1852,] 1.2912413553 -2.791789e+00 1.276851e+00 -0.5497432061 2.770659e-01  
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## [1864,] -7.7708612755 -1.548800e-01 1.884479e-01 -1.0563991950 -2.538312e+00  
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## [1866,] 0.8718201727 -2.132772e-01 -4.783411e-01 -1.5310143899 -7.022833e-01  
## [1867,] 0.7763124584 -5.499239e-01 -1.252701e-01 -0.7022695995 -6.220964e-01  
## [1868,] 0.7388271743 1.051136e+00 -5.973306e-02 1.0074204668 -1.131216e+00  
## [1869,] 0.2308595430 -7.856751e-01 -2.499516e+00 2.3239170647 -1.056229e+00  
## [1870,] -0.2518975779 -2.613780e+00 -7.796131e-01 -1.1232808239 -5.519922e-01  
## [1871,] 0.1866619603 1.347020e+00 6.268161e-01 2.1464191243 -7.406924e-01  
## [1872,] 0.9202644246 -1.426817e-01 4.237387e-01 -0.7438329804 -4.893959e-01  
## [1873,] 0.5314023202 9.597634e-01 7.397750e-01 0.6369420577 -4.106149e-01  
## [1874,] 0.8566303240 -2.673043e-01 3.202622e-01 -1.1067507806 -2.885316e-01  
## [1875,] 0.6404308014 1.043930e+00 1.129573e+00 0.3735888194 -4.301445e-01  
## [1876,] 0.7301522378 4.650484e-01 8.666177e-02 -1.7095078417 -1.925650e-01  
## [1877,] 0.9193963565 -4.589304e-01 -1.307224e+00 -0.3827724561 -4.986390e-01  
## [1878,] -4.6621144432 9.609736e-01 6.189378e-01 0.3873054518 4.526071e-01  
## [1879,] 0.6112024695 1.019743e+00 -1.783462e+00 -1.2416744893 -1.261262e-01  
## [1880,] 0.5117074333 1.869200e+00 -8.004766e-01 -1.0552893753 2.827569e-01  
## [1881,] 0.4767661799 1.169516e+00 -1.350421e+00 -0.7836936638 2.889044e-01  
## [1882,] -0.0414985049 3.688188e-01 -1.803068e-01 -0.0391635130 1.074241e+00  
## [1883,] 0.0416087850 5.539780e-01 -2.387864e+00 -0.7592801287 5.601285e-01  
## [1884,] 0.1921346607 8.155484e-01 -2.356882e+00 2.2274743120 -4.771050e-02  
## [1885,] 0.7769450001 6.831931e-02 -5.394697e-01 0.2659090399 -6.418456e-02  
## [1886,] -0.1712625500 -1.184752e+00 -4.900775e+00 2.2114655398 -2.890488e-01  
## [1887,] 0.6495834328 8.285560e-01 8.466313e-01 0.1173101066 -6.410313e-01  
## [1888,] 0.3864316648 -7.650159e-02 -3.861321e-01 0.3088292318 -4.585195e-01  
## [1889,] 0.3972459669 9.711452e-02 -5.529465e-01 0.6175483461 -8.206656e-01  
## [1890,] 0.3773156902 -1.756912e-01 -1.601550e+00 -0.1650375353 -6.301429e-01  
## [1891,] 0.8193736668 1.135574e-01 3.150101e-01 -1.0641328263 -5.131173e-01  
## [1892,] 0.3083901262 2.365419e+00 3.577335e-01 0.3033550535 -5.054870e-01  
## [1893,] 0.6084167385 1.111233e+00 5.713309e-01 -0.3407089753 -4.277460e-01  
## [1894,] 0.9002001259 -3.150243e-01 -1.396997e+00 -0.5545447759 -4.865388e-01  
## [1895,] -7.7594785365 -2.132644e-01 1.942301e-01 -1.0723533245 -2.522454e+00  
## [1896,] -0.1640919457 1.737262e+00 1.755798e-01 0.4061291055 1.931611e+00  
## [1897,] 0.6410395148 3.748399e-01 -4.757627e-01 2.5218209272 -1.143744e+00  
## [1898,] -9.6632776936 -4.050543e-01 1.905762e-01 1.7201656930 3.772456e+00  
## [1899,] 0.9455483824 5.320955e-01 3.112312e-01 0.5555150516 -6.465912e-01  
## [1900,] 1.0110399665 -7.751693e-01 1.904246e-03 -0.2201605281 -1.063519e+00  
## [1901,] 0.8627119911 -3.364993e-02 -2.128454e-01 -1.0813684925 -6.249321e-01  
## [1902,] 0.1504015326 -1.591842e-01 -3.661962e+00 -0.8905191955 4.644662e-01  
## [1903,] 0.3106343297 1.132174e+00 -3.435649e+00 -2.0120548898 5.723696e-01  
## [1904,] 0.8829627489 -1.676379e-01 -2.389330e-01 -1.2281230320 -7.871061e-01  
## [1905,] 0.7076628795 1.293159e+00 1.174523e+00 1.2490082993 -6.231651e-01  
## [1906,] 0.7519323232 -3.188443e-01 -1.048382e-01 0.7916580178 -3.742249e-01  
## [1907,] 0.9749818678 -1.742749e+00 7.988138e-01 -0.0638218970 -5.914298e-02  
## [1908,] -1.0093986856 -3.900585e-01 -2.139481e+00 -1.1803794047 8.346267e-03  
## [1909,] 0.6995341724 8.640041e-01 4.592176e-01 -1.1851792674 -2.447639e-01  
## [1910,] 0.6832388959 7.174130e-01 1.216477e+00 0.5518105828 -3.593196e-01  
## [1911,] 0.8789136878 -3.635026e-01 4.821099e-01 -1.0558816953 -3.305960e-01  
## [1912,] -0.8130016280 1.772257e-01 -2.399678e+00 -0.4256520434 -1.406017e+00  
## [1913,] 0.4972843069 2.180912e+00 -1.203563e+00 -0.6649240351 1.221838e-01  
## [1914,] 0.3659229740 9.807038e-01 -2.952267e+00 -1.7969531979 3.955911e-01  
## [1915,] 0.7943692391 4.394666e-01 9.757844e-01 1.1760873919 -9.223781e-01  
## [1916,] 0.5346796162 3.620949e-01 -5.157750e-01 2.3307367716 -1.043174e+00  
## [1917,] 0.6509057223 3.553544e-01 -4.064433e-01 2.6787702425 -1.143529e+00  
## [1918,] 0.9617010610 -5.148208e-01 -1.447167e-01 -0.7328570158 -2.429595e-01  
## [1919,] 0.8849335722 -2.544741e-01 -1.928421e-01 -1.2450955596 -7.494536e-01  
## [1920,] 0.8935753991 9.036917e-02 -3.919641e-02 0.0959673607 -4.806046e-01  
## [1921,] 0.8406190434 1.152406e+00 3.166254e-01 0.6164613740 -1.104145e+00  
## [1922,] 0.8583391669 5.829125e-02 -6.087958e-01 -0.9574774070 -4.585004e-01  
## [1923,] 0.6115818344 1.156167e+00 5.044543e-01 -0.4187499400 -4.499994e-01  
## [1924,] 1.2698775662 -2.752626e+00 1.477257e+00 -0.1558429230 2.810725e-01  
## [1925,] 0.8965895904 -2.895384e-01 -1.302505e+00 -0.4291317058 -4.370903e-01  
## [1926,] 1.2722031646 -2.798696e+00 1.431650e-01 -0.1133025300 -1.043247e+00  
## [1927,] 0.5492557248 2.275701e+00 4.689786e-01 -0.8297819020 -2.810903e-01  
## [1928,] 0.0848767773 -4.288215e-01 -2.383638e+00 0.3712427310 -4.947348e-01  
## [1929,] -0.1745980164 1.800987e+00 1.512586e+00 0.3324860838 1.481399e+00  
## [1930,] 0.7307638973 6.423190e-01 1.032270e-01 -1.4930106132 -2.158649e-02  
## [1931,] 0.7323071356 7.494572e-01 -8.365066e-02 -0.3620290081 -1.322923e+00  
## [1932,] 0.8489516093 -2.761126e-01 5.846610e-01 -0.9022897503 -3.085166e-01  
## [1933,] 0.8187949517 7.402112e-01 3.383451e-01 -0.2026147098 -7.634003e-01  
## [1934,] 0.7347349097 1.532805e+00 1.304849e+00 2.4354012961 -1.003269e+00  
## [1935,] 0.5759987732 2.317298e+00 5.546300e-01 -0.0742269764 -5.112019e-01  
## [1936,] 0.7726914894 -2.002264e-01 -5.176160e-02 0.1037907104 -8.847191e-01  
## [1937,] 0.9878424656 -1.805206e+00 8.032921e-01 -0.1515399422 -2.295097e-04  
## [1938,] 0.8294641437 -3.270978e-03 -4.929920e-01 -1.0554783107 -1.011479e+00  
## [1939,] 0.4115661813 -2.458851e-01 -3.698885e-01 0.3645109720 -4.933282e-01  
## [1940,] 0.9620725418 -3.152357e-01 1.054075e+00 0.4779321218 -4.164211e-01  
## [1941,] 0.6355422881 1.405787e+00 3.022517e-02 -2.3573915641 1.619765e-01  
## [1942,] 0.8201416200 5.680176e-01 6.817698e-01 -0.3485698317 -3.711317e-01  
## [1943,] 0.3054729797 1.315402e+00 -5.128886e-02 -0.7124406902 -9.025207e-02  
## [1944,] 0.1889826079 1.364001e+00 6.184198e-01 2.1426054532 -7.242081e-01  
## [1945,] 0.6525524969 9.391037e-01 -2.039716e-01 -1.7978185901 -6.967571e-02  
## [1946,] 0.5019815704 1.136413e+00 4.849221e-01 -0.0446743737 -2.649330e-01  
## [1947,] 0.6319533041 1.057263e+00 -1.580486e-01 -1.6724719665 -7.340971e-02  
## [1948,] -0.3151264169 -2.862269e+00 -1.267904e+00 -0.9032484787 -5.928182e-01  
## [1949,] 0.9435884746 -8.134846e-01 2.915739e-01 -0.2944610355 -5.224924e-01  
## [1950,] 0.8453555345 1.179230e+00 3.664381e-01 0.8112451497 -1.145833e+00  
## [1951,] 0.8488039348 -1.320653e-01 4.897381e-01 -1.0308947002 -3.258664e-01  
## [1952,] 0.9697935262 5.611326e-01 5.116488e-01 0.8071596044 -7.453326e-01  
## [1953,] 0.9060603836 -8.106966e-01 9.098289e-01 -1.4008315620 4.799342e-01  
## [1954,] 0.5956850396 1.231908e+00 5.069310e-01 -0.5172367055 -3.793835e-01  
## [1955,] 0.7086643437 9.839003e-01 8.449266e-01 0.4504489234 -6.826868e-01  
## [1956,] 0.4779164528 1.109971e+00 4.750743e-01 -0.2170964765 -2.245719e-01  
## [1957,] 0.8139227246 1.165548e+00 6.100484e-01 0.6417321261 -8.405093e-01  
## [1958,] 0.8719937626 -2.228880e-01 2.131492e-01 0.4104922948 -4.137883e-01  
## [1959,] 0.7128491576 6.116622e-01 1.203039e+00 0.5694083342 -3.625118e-01  
## [1960,] -9.6812336238 -3.604591e-01 2.634294e-01 1.7909992012 3.815868e+00  
## [1961,] -9.6854737247 -3.493960e-01 2.781232e-01 1.8058698791 3.822919e+00  
## [1962,] 1.2840461149 -2.742957e+00 1.404063e+00 -0.2343570446 2.726412e-01  
## [1963,] 0.6623098666 1.292690e+00 9.402203e-01 0.2738021344 -3.917328e-01  
## [1964,] 0.8272883915 -2.771221e-01 -1.203212e+00 -1.0142590798 -6.308600e-01  
## [1965,] -3.6993774465 -1.002127e+00 -7.111422e-01 -0.1911060707 -2.060742e+00  
## [1966,] 0.4117679015 8.298794e-01 3.103765e-01 0.0755890971 -5.569253e-01  
## [1967,] -7.7107753444 -6.597791e-01 -6.381594e-01 -0.5666943553 -1.717341e+00  
## [1968,] 0.7607869539 -1.246150e+00 -1.555250e+00 0.0248953690 -1.425692e-01  
## [1969,] 0.8807067798 -3.307325e-02 -2.484851e-01 -1.0385700348 -6.665505e-01  
## [1970,] 0.8514355724 5.441457e-01 3.901240e-01 -0.0001566740 -8.339275e-01  
## [1971,] 0.7229495821 1.563091e+00 9.984049e-01 2.0370551506 -1.202169e+00  
## [1972,] 0.5559069549 1.540231e+00 8.718671e-01 -0.1732485198 -3.556032e-01  
## [1973,] 0.7436096513 1.069141e+00 -4.158692e-02 1.0407827010 -1.103671e+00  
## [1974,] -0.8664688636 -4.592366e-01 -2.180808e+00 0.0518641145 -1.179045e+00  
## [1975,] 0.9427671520 -2.492456e-01 6.393812e-01 0.1092524735 -6.711100e-01  
## [1976,] 0.9523763399 5.715564e-01 5.192369e-01 0.7293924153 -7.066528e-01  
## [1977,] 0.8817023802 -1.568204e-01 4.265975e-01 -0.0124428116 -8.982664e-01  
## [1978,] 0.8634866957 -2.211421e-03 -2.144861e-01 -1.0408704929 -6.280580e-01  
## [1979,] 0.4178470956 -5.212522e-01 -8.706519e-01 -0.0679593409 -5.176731e-01  
## [1980,] 0.7270061113 6.912710e-01 3.347480e-01 -1.4335999447 -9.464013e-03  
## [1981,] 0.5161696119 2.052902e+00 2.873459e-02 -0.8983527050 -3.814513e-01  
## [1982,] 0.8177604568 4.200902e-02 1.011455e-01 -1.2771658706 -4.434538e-01  
## [1983,] 0.9179533975 6.135577e-01 5.057710e-01 0.5081217630 -6.436548e-01  
## [1984,] 0.7077279306 5.078939e-01 -1.102492e+00 -0.4327893129 1.848811e-01  
## [1985,] 0.1988977734 1.872150e-01 -2.611062e+00 2.2102411282 3.133489e+00  
## [1986,] 0.7640911851 1.459885e+00 1.367234e+00 2.6258999928 -1.010400e+00  
## [1987,] 0.9724482702 -4.349699e-01 -3.016341e-01 0.3267205213 -1.240874e+00  
## [1988,] 0.8359171587 1.171507e+00 3.213515e-01 0.6500820978 -1.110451e+00  
## [1989,] -3.6875623110 -5.800953e-01 -9.445017e-01 -0.7584501397 -1.919327e+00  
## [1990,] 0.7830383402 -4.879130e-01 -3.830388e-01 0.6214292224 -3.822949e-01  
## [1991,] 0.6807794461 8.743542e-01 2.923765e-01 -0.8316545078 -4.459091e-01  
## [1992,] 0.5135980441 1.838944e+00 -3.089084e-01 -1.9471642191 -2.908781e-02  
## [1993,] 1.2807817715 -2.820970e+00 3.395555e-01 -0.0946755398 -1.042905e+00  
## [1994,] 0.8395984072 -1.986027e-01 2.861024e-01 -1.3292642857 -1.977563e-01  
## [1995,] 0.8889908962 -2.053760e-01 1.005489e+00 0.5632864782 -5.687617e-01  
## [1996,] 0.7324233205 4.494686e-01 7.898632e-02 -1.7552919898 -1.631081e-01  
## [1997,] 0.9065260962 3.824863e-02 1.183516e-01 0.0527158086 -4.993022e-01  
## [1998,] -3.6917796477 -1.107387e+00 -6.450934e-01 -0.0988730922 -2.066528e+00  
## [1999,] 0.8009698631 6.609281e-01 6.644229e-01 -0.5396415267 -2.882696e-01  
## [2000,] 0.8887083855 1.239391e-01 1.493140e-01 0.0954697354 -4.712323e-01  
## [2001,] 0.5805122877 1.333590e+00 -1.909080e+00 -1.3430204881 2.799767e-01  
## [2002,] 0.7707925972 2.161059e-01 3.411436e-01 -0.7005290740 -4.323748e-01  
## [2003,] 0.5726587801 2.257063e+00 4.954860e-01 -0.3751905985 -4.270339e-01  
## [2004,] 1.2736950880 -2.865525e+00 3.091277e-01 -0.1233157673 -1.096958e+00  
## [2005,] 1.1733526574 -1.663887e+00 2.463422e-01 -0.4247366649 -9.161593e-01  
## [2006,] 0.5839245069 1.385520e+00 8.000338e-01 -0.3523183004 -3.242831e-01  
## [2007,] 0.9260380243 -2.250082e-02 7.943798e-01 -0.2096009956 -3.459517e-01  
## [2008,] 0.3221960065 1.346065e+00 7.475292e-02 -0.6556979827 -1.663200e-01  
## [2009,] 0.6464711745 1.234813e+00 4.717745e-01 -0.8123196731 -4.400611e-01  
## [2010,] 0.7008096805 -3.719306e-01 -1.764683e-01 0.6221491826 -6.587701e-01  
## [2011,] 0.4988791339 1.085677e+00 9.261749e-01 3.2615570724 -8.580111e-01  
## [2012,] 0.9394496616 5.298400e-01 3.454469e-01 0.5460886299 -6.166552e-01  
## [2013,] 0.6816036604 1.200018e+00 4.198622e-01 -0.6561568734 -5.553988e-01  
## [2014,] 0.4184984614 2.815775e-01 -1.155295e+00 2.3643318561 -9.420564e-01  
## [2015,] 0.6150087180 1.202976e+00 8.377999e-01 -0.4881933837 -2.649738e-01  
## [2016,] 0.7285886900 4.796831e-01 -4.724786e-02 2.1150810504 -1.061537e+00  
## [2017,] 0.4178445123 2.511659e+00 9.202993e-01 0.0936220134 -3.631516e-01  
## [2018,] 0.6423650253 9.470029e-01 -7.544209e-01 -0.9331305838 2.274967e-01  
## [2019,] 0.0787462208 1.275263e+00 2.900765e-01 1.6121910314 -5.564061e-01  
## [2020,] -0.8312595024 2.341505e-01 -2.428338e+00 -0.6288245926 -1.342494e+00  
## [2021,] 0.7382355636 3.989223e-01 6.581879e-01 -0.5065453919 -3.876462e-01  
## [2022,] -0.0262736395 2.385272e+00 1.940618e+00 2.0817279233 1.249057e+00  
## [2023,] 0.7198895680 7.640153e-01 1.394524e-01 -0.6957633754 -4.335926e-01  
## [2024,] 0.7519910880 6.467059e-01 3.642564e-01 -1.2566794498 -4.339011e-02  
## [2025,] 0.8411249812 1.593790e-01 9.773411e-02 -0.7047940283 -4.902344e-01  
## [2026,] 0.6422711483 1.758226e+00 3.449936e-01 -0.2629409371 -5.416023e-01  
## [2027,] 0.7502801467 3.937629e-01 6.693803e-01 -0.4250374056 -4.077095e-01  
## [2028,] 0.6993142117 1.337994e+00 1.142432e+00 1.1453285078 -5.826106e-01  
## [2029,] 0.6323767685 1.453237e+00 4.252050e-03 -1.0898521543 -5.436054e-01  
## [2030,] 0.9007448859 -1.906505e-01 -2.767167e-01 -0.4582579194 -8.272216e-01  
## [2031,] 0.6395852030 2.866254e-01 -6.662627e-01 2.4670265364 -1.140298e+00  
## [2032,] -0.7863327956 1.337265e+00 2.472499e+00 1.1894397543 2.427187e+00  
## [2033,] -0.7320414364 4.465437e-01 -1.834239e+00 -0.8161759513 -1.368668e+00  
## [2034,] 0.9279083413 -7.961673e-02 5.715377e-01 -0.0520643380 -4.152836e-01  
## [2035,] 0.7418342092 -4.803674e-01 -7.163742e-02 0.9803860438 -7.087554e-01  
## [2036,] 0.7519007036 1.442338e+00 9.445029e-01 1.9509230034 -1.205464e+00  
## [2037,] 1.1092410797 -1.391886e+00 -4.294006e-01 -1.8001928687 -4.673491e-01  
## [2038,] 0.5836971817 -2.261425e-01 -1.997694e+00 1.5741894062 -5.341957e-01  
## [2039,] 0.5124197130 1.084081e+00 -1.637885e+00 -0.1772338593 -1.230404e-01  
## [2040,] 0.5966492002 1.150906e+00 -1.193911e+00 -0.3954223264 4.365680e-02  
## [2041,] 0.5445874933 1.686656e+00 -3.799989e-01 0.7671547731 -3.290562e-01  
## [2042,] -0.0771175138 6.350696e-01 3.917098e-01 0.8422151045 9.851991e-01  
## [2043,] 0.7189875959 6.887673e-01 -3.586544e-01 0.3014186517 2.092727e-01  
## [2044,] -3.1015676246 1.443262e+00 -1.505673e+00 0.1844640670 1.173163e+00  
## [2045,] 0.5475266830 1.697200e+00 -1.253855e+00 1.4045692135 -3.406422e-01  
## [2046,] -1.6861448494 1.759170e+00 -5.137280e+00 0.5105138319 1.083754e+00  
## [2047,] -0.2748663016 1.543245e+00 -3.567662e+00 0.2066106837 7.601706e-01  
## [2048,] -0.0553877271 1.330349e+00 -2.864237e+00 1.6975376516 3.237991e+00  
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## [2050,] 0.7641952237 8.187123e-02 -6.117810e-01 -0.9900223757 3.749645e-01  
## [2051,] -0.0268180149 -2.309213e+00 -5.270586e+00 0.6005249675 6.243690e-01  
## [2052,] -1.1836332968 1.297134e+00 -6.274608e-01 -1.3655009659 3.518667e-01  
## [2053,] 1.0455246699 -3.272025e+00 -1.625875e+00 0.1657843790 -2.034340e-02  
## [2054,] 0.5863862004 3.670300e-01 -1.486122e+00 0.9644228921 -2.778570e-01  
## [2055,] 0.4741646185 -2.466947e+00 -3.618592e+00 0.4564860974 -5.969921e-01  
## [2056,] 0.9592616532 -5.771566e-01 -1.639540e+00 -1.8099887785 1.414082e+00  
## [2057,] 0.5223945921 2.115829e+00 1.582368e-01 -0.6145488147 -3.531013e-01  
## [2058,] 1.0956375234 -1.826190e+00 5.374736e-01 0.2239338792 -1.074099e+00  
## [2059,] 0.0900414968 -4.008817e-01 -2.289994e+00 0.3155737781 -5.762774e-01  
## [2060,] 0.8269418837 -1.532349e-02 -4.779465e-01 -1.0830037360 -9.907832e-01  
## [2061,] -0.0301795800 2.400216e+00 1.907848e+00 2.0759765310 1.218638e+00  
## [2062,] -8.3930957796 -1.350526e+00 1.867781e-01 -0.5647337427 -3.333643e-01  
## [2063,] 0.3043866519 1.470770e+00 8.243018e-02 -0.6635268461 -1.490255e-01  
## [2064,] 0.9395467966 -7.428019e-01 1.017393e+00 -1.2041973593 3.348524e-01  
## [2065,] 0.7708244044 5.064158e-01 9.130775e-01 0.9619731927 -8.863069e-01  
## [2066,] 0.7458649204 5.750079e-01 -5.976706e-02 -1.8392572743 -1.894769e-02  
## [2067,] -8.4890247006 -4.837130e-01 1.081085e+00 -0.5907337345 -1.266649e+00  
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## [2069,] 0.8006079651 7.476018e-01 6.371651e-01 -0.3575232575 -3.968118e-01  
## [2070,] 0.7431229627 4.452010e-01 3.477348e-01 -0.6594857296 -4.221525e-01  
## [2071,] 0.5484498563 2.457086e-01 -7.277681e-01 2.2494757478 -1.008414e+00  
## [2072,] 0.9553764871 -4.443000e-01 -3.713040e-01 0.1388546972 -1.232303e+00  
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## [2074,] 0.7617647699 4.054698e-01 4.603987e-01 -0.0152154236 -8.549892e-01  
## [2075,] -0.1706283687 1.778769e+00 1.854325e+00 0.6503816288 1.478796e+00  
## [2076,] -0.0499575793 2.477462e+00 -1.805728e+00 -0.9956721402 6.820650e-01  
## [2077,] 0.8955693949 9.584980e-02 -3.982541e-02 0.1380866527 -4.946057e-01  
## [2078,] 0.7353231674 1.385373e-01 7.721922e-02 -0.4907901041 -5.284032e-01  
## [2079,] -2.1421808107 2.683199e+00 2.948458e+00 -0.1217066126 2.303307e+00  
## [2080,] 0.6725921483 1.217699e+00 4.721867e-01 -0.6163010484 -5.162327e-01  
## [2081,] 0.8071552371 5.255915e-01 4.453769e-01 -0.6751190869 -2.535222e-01  
## [2082,] 0.8033408614 4.499686e-01 9.014030e-01 1.0853778586 -9.347630e-01  
## [2083,] 0.9365578333 -3.757330e-01 6.248042e-01 -0.2284823503 -5.356413e-01  
## [2084,] 0.5238476599 3.677643e-01 -5.010100e-01 2.2976013061 -9.941285e-01  
## [2085,] 0.4304171774 1.540803e+00 -9.596184e-01 -0.0841920556 3.989959e-01  
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## [2087,] -0.1228876781 1.522736e+00 7.687495e-01 -0.9961165575 5.947722e-01  
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## [2091,] 0.9931135362 -5.372058e-01 -3.532361e-01 0.3059235579 -1.277323e+00  
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## [2099,] 0.7455655980 6.083211e-01 6.321257e-02 -1.5851296357 5.563237e-04  
## [2100,] 0.7557871670 5.599383e-01 4.055601e-01 -1.2560248653 -1.659418e-02  
## [2101,] 0.7017760652 2.168690e-01 9.209679e-02 -0.5971394956 -4.799468e-01  
## [2102,] -7.7626652556 -2.627808e-01 1.512779e-01 -1.2617023689 -2.475902e+00  
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## [2104,] -0.4552999334 -1.616402e+00 -2.465798e-01 1.0063431172 -1.174486e+00  
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## [2107,] 0.3833617901 -5.808217e-02 -4.032891e-01 0.3341230110 -4.722678e-01  
## [2108,] -8.3224062812 -1.584736e+00 1.334890e+00 -0.8044467327 -8.914784e-01  
## [2109,] 0.7863867720 4.572927e-01 9.174932e-01 1.0819331252 -9.290536e-01  
## [2110,] 0.7431820879 6.483783e-01 3.501961e-01 -1.3579898491 -8.442557e-03  
## [2111,] 0.6133586036 2.745757e-01 3.318719e-01 1.9534925286 -5.983850e-01  
## [2112,] -0.7952848557 1.735120e-01 -2.744844e-01 -0.8251273047 -9.327769e-01  
## [2113,] -3.6881052868 -1.047737e+00 -6.899780e-01 -0.1977583007 -2.026182e+00  
## [2114,] -2.1200581774 2.610484e+00 2.975255e+00 -0.0562462296 2.312715e+00  
## [2115,] 0.5430379338 2.218753e+00 5.203363e-01 -0.8181056783 -2.376004e-01  
## [2116,] 0.4570734501 1.758989e+00 1.393587e+00 1.1258451355 -5.888632e-01  
## [2117,] 0.8146083646 9.019673e-02 -4.926624e-01 -1.0375516343 -1.005645e+00  
## [2118,] 0.5509762395 1.576624e+00 -1.396503e+00 -1.0281304747 4.685104e-01  
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## [2130,] 0.6214451350 1.126426e+00 8.168580e-01 -0.5681258362 -2.517252e-01  
## [2131,] 0.5732214862 1.441923e+00 8.044788e-01 -0.3678795025 -3.193169e-01  
## [2132,] 0.6222072999 1.871256e+00 5.618701e-01 0.1848096168 -4.968551e-01  
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## [2137,] -0.3669076492 -2.688110e+00 -1.154178e+00 -0.8660223555 -4.916032e-01  
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## [2139,] 0.9105827747 -5.315694e-02 -9.199806e-02 -0.0426580340 -4.742710e-01  
## [2140,] 0.8777531050 -3.476168e-01 2.475844e-01 -1.1556545835 -2.987473e-01  
## [2141,] 0.6022160505 2.832539e-01 -1.169921e+00 -0.1890584667 -8.527189e-01  
## [2142,] 0.3254628883 1.369628e+00 7.708480e-01 1.7454117177 -6.997288e-01  
## [2143,] 0.9503613655 -7.131833e-01 2.995181e-01 -0.1168981726 -5.666152e-01  
## [2144,] 0.9606059740 -6.188572e-01 -8.282628e-01 0.0159368447 1.568282e-01  
## [2145,] 0.3079511930 -3.429655e-01 -1.966618e+00 0.2867821664 -6.231466e-01  
## [2146,] 0.6430534779 8.198291e-01 8.105015e-01 0.0274706285 -6.222717e-01  
## [2147,] 0.8438386041 -4.595252e-02 4.673280e-01 -1.0830454222 -3.032036e-01  
## [2148,] -0.7121552378 2.753579e-01 -1.891390e+00 -0.9764321053 -1.366439e+00  
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## [2150,] 0.0175344275 5.270243e-01 -9.356315e-01 -0.7842008500 2.002222e-01  
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## [2156,] 0.8923102423 -1.699289e-01 4.442207e-01 -0.9591883246 -3.689810e-01  
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## [2158,] 0.8419459173 -3.838686e-01 6.516307e-02 0.4264173703 -6.485924e-01  
## [2159,] 0.9643511212 5.426922e-01 5.056472e-01 0.6719244618 -6.728290e-01  
## [2160,] 0.5237574894 3.228426e-01 -7.382385e-01 2.1295445035 -9.538453e-01  
## [2161,] 0.7788842149 5.608294e-01 9.451114e-01 0.0581485675 -3.747321e-01  
## [2162,] 0.9108232309 -2.866519e-03 8.261765e-01 -0.1599534199 -3.448070e-01  
## [2163,] 0.8015876285 3.323020e-01 8.446431e-01 0.8352954961 -8.949632e-01  
## [2164,] 0.8565162929 1.307312e-01 6.357027e-03 -0.7698696901 -5.374070e-01  
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## [2172,] 0.5864570431 3.875927e-01 -1.020970e+00 0.2372275245 8.181510e-02  
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## [2176,] 0.1426795489 -3.328334e-02 -4.366148e+00 2.1058853029 2.787206e+00  
## [2177,] 0.3643832042 -2.714068e-01 -2.741056e+00 0.3658728315 1.861054e-01  
## [2178,] 0.8767068403 -1.558983e+00 -2.066853e+00 0.4008084810 -8.410535e-01  
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## [2180,] 0.9154182789 -2.253017e-02 5.509166e-01 -0.1524409673 -3.846221e-01  
## [2181,] 1.1213273639 -1.959510e+00 5.720063e-01 0.3436047821 -1.081154e+00  
## [2182,] 0.7874478277 1.997495e-01 4.145215e-01 -0.1261838761 -8.709967e-01  
## [2183,] 0.9259148455 -1.510030e-01 1.470735e-01 -0.4046381968 -2.988549e-01  
## [2184,] 1.0188087527 -1.245658e+00 -6.957282e-01 -0.6244247530 -1.150420e+00  
## [2185,] -0.3561363958 -1.571675e+00 -9.187577e-02 0.4745896780 -1.130649e+00  
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## [2187,] -0.4564851756 -1.659813e+00 -3.033078e-01 0.8376563519 -1.165165e+00  
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## [2189,] 0.7637508555 1.823378e-01 5.215414e-02 -0.2505196088 -6.307762e-01  
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## [2191,] 0.9002144114 -7.642050e-01 8.946423e-01 -1.5110755253 5.493659e-01  
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## [2193,] -2.1318584622 2.621580e+00 2.979841e+00 -0.1183838882 2.343806e+00  
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## [2195,] 0.7899341623 4.787643e-01 9.469340e-01 -0.0131491628 -3.483071e-01  
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## [2197,] 0.5315398747 3.241603e-01 -7.463938e-01 2.1423030930 -9.681646e-01  
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## [2203,] -1.3317716204 8.878783e-01 -4.669160e+00 0.6791138130 8.197675e-01  
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## [2212,] 0.9595131406 -5.510517e-01 -5.554950e-01 -0.0463015533 -1.145364e+00  
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## [2224,] 0.8121476534 4.164722e-01 -7.122149e-01 0.5462379666 -4.113447e-01  
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## [2237,] 0.9682929798 -6.296356e-01 -6.720060e-01 0.0875623123 -1.128047e+00  
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## [2317,] 0.7133974125 7.949524e-01 -5.418107e-01 0.0214252707 1.900852e-02  
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## [2319,] 0.9903286005 -1.563922e+00 -9.912557e-01 0.3886209158 1.614078e-01  
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## [2365,] 0.7284783654 1.712047e-01 9.938432e-02 -0.4621694489 -5.118506e-01  
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## [2396,] 0.7736762273 2.973141e-01 5.054253e-01 -0.2966912535 -4.097529e-01  
## [2397,] -0.5702864558 -1.452656e+00 1.137227e-01 1.1550383782 -1.727677e+00  
## [2398,] 0.8164380055 -8.548863e-03 -6.333051e-01 -0.2858060923 -1.290662e+00  
## [2399,] 0.4078344672 -1.539587e-01 -1.931583e-01 0.3471338653 -4.352743e-01  
## [2400,] -0.1336076258 1.536301e+00 8.720735e-01 -0.7873149706 6.112352e-01  
## [2401,] 1.0915428493 -1.876569e+00 3.937266e-01 0.2339800918 -9.988496e-01  
## [2402,] 0.9853760589 -5.285191e-01 6.320763e-01 -0.0013800215 -5.998321e-01  
## [2403,] 0.7409638307 3.326430e-01 4.424242e-01 -0.6353523773 -3.267412e-01  
## [2404,] 0.5838937933 1.417536e+00 8.486781e-01 -0.2835847496 -2.760631e-01  
## [2405,] 0.6957869393 1.027179e+00 2.547398e-01 -1.0521466352 2.900595e-03  
## [2406,] 0.5874460325 1.329484e+00 8.399133e-01 -0.3240674793 -2.816468e-01  
## [2407,] -3.0584085831 1.266643e+00 -3.449326e-01 -0.1675341216 6.881861e-01  
## [2408,] 0.9515797240 4.778312e-01 2.857269e-01 0.3454801764 -5.422944e-01  
## [2409,] 0.4652188642 2.183327e+00 8.727268e-01 -0.0060304169 -1.027781e-01  
## [2410,] 0.7391045353 2.069731e-01 2.285046e-01 -0.4391750800 -5.652045e-01  
## [2411,] -1.1294960670 3.194483e-01 -3.911295e+00 0.0023143098 1.328516e-01  
## [2412,] -0.7093856007 5.080215e-01 -2.000713e-01 0.4598630261 -9.276197e-02  
## [2413,] 0.6449749827 8.732697e-01 -7.532880e-01 -0.3565369511 -1.010162e-01  
## [2414,] 0.7046656234 -3.154404e+00 -3.189537e+00 5.7203758400 1.295471e+00  
## [2415,] 0.9308408928 -6.876474e-01 3.386029e-01 -0.2139106503 -4.581859e-01  
## [2416,] 0.6610218128 1.367150e+00 1.489583e-01 -2.0289406084 2.091796e-01  
## [2417,] -7.6987699724 -7.892438e-01 8.676359e-01 -0.4312762177 -2.064358e+00  
## [2418,] -3.0495517124 1.309116e+00 -5.133499e-02 0.0946259039 6.790793e-01  
## [2419,] 0.9319447809 -4.699714e-01 -1.331169e+00 -0.4096137507 -4.613710e-01  
## [2420,] 0.8128498599 2.917955e-01 2.465932e-01 0.3066121928 -1.305565e+00  
## [2421,] 0.7293672912 8.141850e-01 7.098212e-01 0.1083257146 -6.378434e-01  
## [2422,] -0.0815596917 1.819881e+00 1.403680e+00 0.0773965943 1.526721e+00  
## [2423,] 0.7636651127 1.456430e+00 9.852895e-01 1.9874190126 -1.128254e+00  
## [2424,] 0.6524174564 1.082067e+00 8.531103e-01 -0.4295705385 -2.291167e-01  
## [2425,] 0.6580406869 9.281972e-01 8.100493e-01 -0.3599886276 -2.627201e-01  
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## [2453,] 0.9277764080 6.833099e-03 8.437068e-01 -0.0925086167 -3.009505e-01  
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## [2462,] 0.0332237017 5.464897e-01 -7.255597e-01 -0.5990991572 1.603187e-01  
## [2463,] 0.7295603376 5.943281e-01 -9.118433e-01 -0.6705261058 -1.280431e-02  
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## [2478,] 0.3203891138 1.711628e+00 -1.510687e+00 -0.8146207823 5.118438e-01  
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## [2484,] 0.6908720075 8.640723e-01 -1.692425e-01 -1.7113369185 6.073332e-04  
## [2485,] 0.6145932425 1.405566e+00 -8.484972e-02 -2.4622114960 3.352192e-01  
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## [2498,] 0.5575631736 -7.243565e-01 -6.870969e-01 -0.5641511912 -4.290855e-01  
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## [2510,] 0.9943679192 -1.258790e+00 -7.472307e-01 -0.6526985808 -9.720319e-01  
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## [2519,] 0.1818155928 -2.488794e-01 -7.936276e-01 0.4450640541 -2.786963e-01  
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## [2521,] -0.6510150442 -4.836964e-01 -5.149976e-01 0.0285258178 -7.106479e-01  
## [2522,] 0.7782301793 6.795179e-01 -8.684620e-01 0.1509648219 -3.246852e-01  
## [2523,] 0.7299980824 -3.563297e+00 -2.038648e+00 -0.3520929726 4.741243e+00  
## [2524,] -0.7292292158 1.152808e+00 -2.496183e+00 1.3562775389 5.073489e+00  
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## [2526,] 0.1157945567 2.711971e+00 -1.672287e+00 0.1849388899 5.562993e-01  
## [2527,] -0.5140232226 2.449333e+00 -1.250770e+00 -0.1759560882 2.486089e+00  
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## [2529,] 0.4923020023 -3.636082e-01 -1.994799e+00 -0.3168675604 5.809229e-01  
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## [2533,] 0.2451150196 3.427251e-01 -3.001299e+00 0.4787672870 3.250686e+00  
## [2534,] 0.7903125664 -1.064688e-02 -9.754482e-01 0.8214468263 -1.026653e+00  
## [2535,] 0.9565371295 -1.979535e-01 -3.358634e-01 1.0592200704 -1.934987e-01  
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## [2569,] -1.0252769847 -1.585414e-01 -2.793771e+00 0.3569661827 -3.514533e-01  
## [2570,] 1.0206368727 -1.584627e+00 -6.282932e-01 0.5229498796 -5.292477e-01  
## [2571,] 0.7843066260 5.985537e-01 -6.630846e-01 -0.3574629379 6.250652e-01  
## [2572,] 0.0219600672 4.682812e-02 -5.546379e-01 1.0755148080 4.453336e-02  
## [2573,] 0.6757066357 6.158488e-01 -8.112330e-01 -0.9799436359 3.975157e-01  
## [2574,] 0.7023815145 6.004840e-01 -7.178894e-01 -0.4369321108 1.293303e-02  
## [2575,] 0.8458099532 -4.176017e-01 -5.026917e-01 -0.6741994609 5.276563e-01  
## [2576,] -0.8754304471 -1.364129e+00 -2.516390e+00 0.9363404032 -4.601381e-01  
## [2577,] -2.1759241740 -9.308571e-01 -2.175714e+00 -1.1712883402 -9.490786e-02  
## [2578,] 0.7839639761 1.339404e+00 -1.125827e-01 1.9760414238 -3.186940e-01  
## [2579,] 0.8370931169 -3.257519e-01 -7.512163e-01 -0.7865471560 1.585566e-01  
## [2580,] 0.9843651103 -1.078925e+00 -8.136980e-02 -0.5658220486 7.544021e-01  
## [2581,] 0.9273331777 -2.520893e-02 -1.642431e-01 1.3628624360 3.199934e-02  
## [2582,] 0.4974423588 1.883732e+00 -6.281583e-01 -0.0665128178 -9.108833e-02  
## [2583,] 0.0682940011 -3.155472e-01 -2.972666e+00 2.3143498321 -2.359217e-01  
## [2584,] -1.0210567266 -1.181024e-01 -3.634876e+00 1.7558757333 1.445665e+00  
## [2585,] 0.8813001645 -4.114011e-02 -6.332640e-01 -0.1045996541 6.553165e-02  
## [2586,] 0.0211277033 -1.112264e+00 -3.061337e+00 -0.5409572230 8.391041e-01  
## [2587,] 0.1888116445 5.951676e-01 -3.240056e+00 1.9823021514 2.686645e+00  
## [2588,] -2.0122380106 -2.830763e+00 -1.852607e+00 0.1569422319 -3.857943e-01  
## [2589,] -1.9199212097 2.309563e-01 -7.747033e+00 3.0961721828 3.974501e+00  
## [2590,] 0.9824589160 -1.275489e+00 -7.339085e-01 1.3325629145 -2.110509e-02  
## [2591,] 0.1631688150 2.678142e+00 -1.193151e+00 -0.8954246466 4.757137e-01  
## [2592,] 0.4846797470 1.642773e+00 -9.437387e-01 0.1044596331 1.827112e-01  
## [2593,] 0.4912856850 5.423390e-01 -1.994218e+00 1.3299885538 -7.982366e-02  
## [2594,] -0.3324037925 1.162517e+00 -4.344645e+00 -2.6914822827 2.601522e+00  
## [2595,] 0.5508638978 -1.357422e-01 -1.762130e+00 0.0240210210 1.882214e-01  
## [2596,] -0.8774329390 2.023237e-01 -4.398830e+00 0.5089385982 5.936236e-01  
## [2597,] 0.4898233716 2.927494e-01 -1.841810e+00 0.9029032343 3.924013e-02  
## [2598,] 0.5251018018 1.527629e+00 -1.147144e+00 -1.2356831151 4.268592e-01  
## [2599,] 0.2693458248 2.116101e-02 -2.325797e+00 0.9383201150 8.220267e-02  
## [2600,] -1.1178078102 -1.879914e+00 -8.041173e+00 -0.0270443865 1.011008e+00  
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## [2603,] 0.5086756029 1.100620e+00 -1.202893e+00 -0.4119406680 3.189342e-01  
## [2604,] -0.1608577726 9.199600e-01 -3.454894e+00 0.3606012551 5.283140e-01  
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## [2611,] 0.3827100835 5.596247e-01 -2.386544e+00 2.8955817658 2.842177e+00  
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## [2619,] 0.1592550922 -3.602633e-01 3.854043e-01 0.6333973832 -6.252258e-01  
## [2620,] 0.8857122717 7.061133e-02 -1.661197e-02 -0.0975231048 -3.216045e-01  
## [2621,] -0.7407165540 -5.113073e-01 -6.848795e-01 0.6398228719 -8.117083e-01  
## [2622,] 0.6509120331 8.377606e-01 8.794453e-01 0.2021084904 -5.994068e-01  
## [2623,] 1.0839765564 -1.391383e+00 1.318907e+00 0.2488247733 -2.570868e-02  
## [2624,] 0.8479184825 8.363369e-02 3.261609e-01 -0.9666751197 -4.805298e-01  
## [2625,] 0.6509928130 8.369480e-01 -1.753974e+00 -2.4553243731 -9.743894e-02  
## [2626,] -5.2389349999 -6.996210e-02 1.229613e+00 1.4500859474 1.016220e+00  
## [2627,] 0.7612954432 6.017127e-01 6.475448e-02 -1.5525594250 2.615228e-02  
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## [2631,] -0.0963805767 1.877413e+00 7.109488e-01 -1.4046774368 1.728140e+00  
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## [2633,] 0.4419233658 6.001679e-01 -1.787341e+00 0.4823831041 -2.438072e-02  
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## [2635,] 0.5323299322 1.813972e+00 2.450596e-01 -1.0367329624 -5.884626e-02  
## [2636,] -2.3429743758 1.793117e+00 -9.068024e-01 0.8790688798 5.583402e+00  
## [2637,] 0.6244920605 1.243548e+00 8.168512e-01 -0.6429236566 -6.762025e-02  
## [2638,] 0.7772139613 4.957298e-01 -8.999344e-02 -1.1581419304 -4.008537e-01  
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## [2643,] 0.9156531263 -7.439185e-01 1.019813e+00 -0.7951876766 1.708746e-01  
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## [2656,] 0.8819801621 -2.392340e-01 5.124059e-01 -1.0039867614 -2.452854e-01  
## [2657,] 0.9369752302 -2.727670e-01 1.318830e+00 1.0451123864 -4.220527e-01  
## [2658,] 0.9208324263 7.539866e-01 7.287921e-01 1.6597145932 -9.650661e-01  
## [2659,] 0.7133644112 1.021043e+00 3.136855e-01 -0.8345823189 -1.242998e-02  
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## [2661,] 1.1637204846 -1.332994e+00 -8.876153e-01 -1.9355022326 -8.410390e-01  
## [2662,] 0.9032742262 5.992240e-01 3.893089e-01 0.4546183375 -9.776131e-01  
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## [2671,] 0.6454615904 9.188619e-01 5.628160e-01 1.5377680738 -9.083760e-01  
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## [2673,] 0.8944470713 -3.620856e-01 5.520416e-01 -0.9866150847 -2.368641e-01  
## [2674,] -0.7816788104 1.408768e+00 2.155406e+00 0.1565252150 2.760826e+00  
## [2675,] -0.7801975323 -1.505912e+00 -2.762513e-01 1.3793667455 -1.583484e+00  
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## [2678,] 0.6945816570 5.522107e-01 7.969483e-01 -0.2736126739 -3.838776e-01  
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## [2688,] -1.0091763731 7.728568e-01 1.605284e+00 -0.2648679656 -2.200123e-01  
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## [2691,] -0.1235498932 1.577381e+00 7.749080e-01 -0.9518717304 6.269036e-01  
## [2692,] 0.2337916445 6.642589e-01 -1.611140e-01 -0.6165178609 1.491718e-01  
## [2693,] 0.7704080441 1.991160e-01 -9.177262e-01 -0.7738692072 2.223326e-01  
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## [2695,] 0.5915526430 1.450819e+00 -1.349404e+00 -0.9561434774 3.345472e-01  
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## [2697,] 0.2292700203 -1.474529e-01 -2.655451e+00 2.1841405916 3.093542e+00  
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## [2699,] 0.2177277079 -9.445610e-01 1.606385e+00 -0.3197047820 1.067914e+00  
## [2700,] 0.8797219607 1.022040e-01 2.082115e-01 0.0052960686 -3.364813e-01  
## [2701,] 0.6756391492 8.480107e-01 1.138034e+00 0.3900620017 -2.986807e-01  
## [2702,] 0.9295793954 -6.687233e-01 2.840687e-01 -1.2388414831 -4.112727e-01  
## [2703,] 0.7709275254 5.333022e-01 1.652185e-02 -0.8413799936 -4.337967e-01  
## [2704,] 0.4711047573 9.601060e-01 -7.969945e-01 -1.5807313033 8.725233e-02  
## [2705,] -0.0891952599 1.888746e+00 6.791073e-01 -1.3374296368 1.678172e+00  
## [2706,] 0.1334293408 -1.488879e-01 1.010081e+00 -0.3506773814 4.720003e-01  
## [2707,] 0.6675605686 1.351897e+00 -2.135504e-03 -1.0555648056 -5.226202e-01  
## [2708,] 0.6017813061 1.563801e+00 4.739926e-01 -0.3654546647 -6.451751e-01  
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## [2724,] 0.6900018624 8.903617e-01 1.117071e+00 0.5155981868 -3.552974e-01  
## [2725,] -0.1420096098 1.620749e+00 1.593984e+00 0.4994094314 1.525322e+00  
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## [2727,] 0.9433160359 -3.075626e-01 -3.914128e-01 0.2896210388 3.672215e-01  
## [2728,] 0.5550578916 1.578562e+00 6.189479e-01 -0.8894965860 3.070591e-02  
## [2729,] -0.0835226484 1.830306e+00 4.896818e-01 -1.4091950687 1.721841e+00  
## [2730,] 0.5438291799 -4.014011e-02 -3.974061e-01 -0.5024612934 -3.364065e-01  
## [2731,] 0.4814293700 2.180347e+00 1.087416e+00 0.1798576885 -1.502686e-01  
## [2732,] 0.3578462039 1.842567e+00 5.928595e-02 0.2551879520 -3.999932e-01  
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## [2735,] 0.4689053848 1.267090e+00 -3.814995e-01 -0.7987049627 -3.827659e-01  
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## [2742,] 0.6003630326 1.318096e+00 1.102573e+00 0.6256819760 -4.987212e-01  
## [2743,] -0.5738290003 -1.412340e+00 1.682914e-01 1.3173752759 -1.722717e+00  
## [2744,] 0.6325121748 1.472092e+00 4.265571e-01 -0.2767959458 -7.275253e-01  
## [2745,] -0.6360663144 -4.171042e-01 -3.086966e-01 0.2624407182 -7.635565e-01  
## [2746,] 0.6664538087 -6.507142e-01 -3.704461e-01 -0.1144095384 -5.562438e-01  
## [2747,] 0.9236227022 -4.175295e-01 -1.301268e+00 -0.4461229530 -3.822581e-01  
## [2748,] 0.9717351359 -3.999676e-01 7.513045e-01 0.2215421475 -5.401859e-01  
## [2749,] 0.9158912112 -4.221666e-01 -1.541968e+00 -0.5871398967 -3.732802e-01  
## [2750,] -0.7534704859 -1.743942e+00 -1.593260e+00 0.4004036908 -1.084607e+00  
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## [2752,] -7.6248288161 -6.784761e-01 -5.052488e-01 0.1655673282 -1.786792e+00  
## [2753,] 0.2934041586 1.261119e+00 -1.635313e+00 2.1913173930 -2.852387e-01  
## [2754,] -1.1388213538 -7.343325e-01 -6.621732e+00 1.5661484031 -7.678744e-02  
## [2755,] 0.4507445722 2.256796e+00 8.591812e-01 -0.0681828696 -7.503422e-02  
## [2756,] 0.6040532987 1.462329e+00 4.317497e-01 -0.4987743937 -6.451233e-01  
## [2757,] 0.6248040714 1.331208e+00 3.442588e-01 -0.5986662523 -1.832409e-01  
## [2758,] 0.9401855063 7.208711e-01 9.989858e-01 2.0102178742 -1.066365e+00  
## [2759,] -7.6139578793 -8.230240e-01 7.759422e-01 -0.0862629773 -2.236110e+00  
## [2760,] 0.8507157986 -5.999342e-02 1.161692e+00 0.8225094140 -6.133418e-01  
## [2761,] 1.0840074069 -6.650304e-01 -1.067288e+00 -2.4084721790 -9.090830e-01  
## [2762,] 1.0489339387 -6.104461e-01 6.422198e-01 -0.0724203654 -2.266862e-01  
## [2763,] 0.6155158848 1.558988e+00 3.080641e-01 -0.5333113685 -7.363329e-01  
## [2764,] 0.9693901168 -1.893922e-01 8.923392e-01 -0.0375940775 -2.497386e-01  
## [2765,] -0.0644594217 1.808213e+00 1.339441e+00 0.0113630328 1.539779e+00  
## [2766,] 0.8669767172 -8.036417e-02 1.079479e-01 -1.1801327488 -3.767223e-01  
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## [2768,] 0.6738186018 1.160983e+00 5.901949e-01 -0.4577657582 -4.295296e-01  
## [2769,] 0.9332363035 -5.278494e-01 7.586321e-01 0.3622997242 -2.889189e-01  
## [2770,] 1.1404160016 -1.907483e+00 3.084588e-01 -0.0163049348 -1.134210e+00  
## [2771,] 0.5615804315 2.004322e+00 3.733586e-01 -0.4779350728 -3.321054e-01  
## [2772,] 0.8591257682 -3.012105e-01 2.314021e-01 -0.6666985718 -4.355330e-01  
## [2773,] 0.8128823128 4.900974e-01 1.044885e+00 0.2652550452 -3.096472e-01  
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## [2775,] 0.8764203630 -1.846140e-01 4.740264e-02 -1.3830946372 -3.397379e-01  
## [2776,] 0.8820143393 -4.212969e-01 -3.933538e-02 -1.7842740150 -4.928261e-02  
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## [2795,] 0.7965631310 -3.388726e+00 -2.168380e+00 5.3798083095 6.840966e-01  
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## [2797,] 0.9842813246 -5.124392e-01 5.980760e-01 -0.1302912656 -5.481487e-01  
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## [2806,] -0.0628866637 1.781134e+00 4.602402e-01 -1.4293126466 1.708073e+00  
## [2807,] -1.8830346437 -2.407917e+00 -1.068971e+00 0.0283662427 -1.731781e+00  
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## [2811,] 0.9285250730 -4.723249e-01 -1.240907e+00 -0.2689884713 -4.231536e-01  
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## [2823,] 0.4094390201 -8.397078e-02 -2.158347e+00 0.1794745403 1.043472e-01  
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## [2825,] 0.9615189130 -4.947215e-01 2.732155e-01 -1.4056195328 -2.714216e-01  
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## [2827,] -2.1106459314 -1.135656e+00 -8.040205e-01 -1.3605817674 -6.335895e-01  
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## [2829,] -0.9155144516 9.493017e-01 1.589554e+00 -0.4093096774 -2.134620e-04  
## [2830,] 0.6226033241 1.490306e+00 4.042612e-01 -0.3917647158 -6.933371e-01  
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## [2832,] 0.9687496258 -5.312798e-01 -1.629528e-01 -0.9773172990 -5.911217e-02  
## [2833,] 0.3791164623 7.737186e-01 -1.125826e+00 -1.1698794898 1.114388e-01  
## [2834,] 0.0927518052 1.225161e+00 2.646659e+00 3.3848633193 1.240847e+00  
## [2835,] 0.4233600633 1.902191e-01 -6.979174e-01 -0.8247219838 -2.376676e-01  
## [2836,] -1.8856723874 -2.392615e+00 -1.145087e+00 -0.0177098481 -1.801870e+00  
## [2837,] 0.4555771063 1.547414e+00 4.701282e-01 -0.3848990582 5.320014e-03  
## [2838,] 0.0889436500 1.157124e+00 2.604353e+00 3.2720409187 1.224457e+00  
## [2839,] 0.4704501996 2.322652e+00 8.212305e-01 -0.1365841985 -2.680464e-01  
## [2840,] -0.1194446495 1.222475e+00 5.936535e-01 -0.7779188637 6.971311e-01  
## [2841,] 0.5837257795 1.417170e+00 8.521379e-01 -0.2549660024 -2.791011e-01  
## [2842,] 0.0566675047 6.450878e-01 -2.463553e+00 2.9141283239 2.707390e+00  
## [2843,] 0.2621275202 6.555536e-01 -2.108453e-01 -0.5032424608 7.538345e-02  
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## [2851,] 0.8561903696 -1.006620e-01 5.207556e-01 -1.0412576031 -2.144908e-01  
## [2852,] 0.4419151900 1.363777e+00 -4.339257e-01 -0.9263127863 -3.651339e-01  
## [2853,] 0.2284733104 5.537992e-01 -3.517298e-01 -0.7560770931 2.055265e-01  
## [2854,] 0.9299203394 -6.279493e-01 2.746835e-01 -1.2266870006 -4.157052e-01  
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## [2862,] 0.6710227417 -7.884199e-01 -1.791499e+00 1.7528614346 -3.674451e-01  
## [2863,] 0.8816061661 -4.119653e-01 2.408716e-02 -1.6476491848 -3.738967e-02  
## [2864,] 1.0559725272 -5.290617e-01 8.504463e-01 0.1257652832 -2.962097e-01  
## [2865,] 0.2606307581 8.017678e-02 -6.594868e-01 2.0555502270 2.761688e+00  
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## [2868,] -2.1633847540 -1.196895e-01 -4.340275e-01 -0.4110668532 -9.980375e-01  
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## [2872,] 0.8819277571 -1.152801e-01 1.190224e+00 1.0706637699 -6.872807e-01  
## [2873,] 0.8832350006 3.140873e-01 6.029726e-01 -0.7107062870 7.270636e-02  
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## [2875,] 0.7040862788 6.125948e-01 5.550425e-01 -0.4804733789 -5.336500e-01  
## [2876,] -5.2635798412 -1.003233e-02 1.301522e+00 1.5165068794 1.076122e+00  
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## [2879,] 0.0511212773 4.432112e-01 -8.968306e-01 -0.6982184354 2.649469e-01  
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## [2881,] 0.8300175810 9.623759e-02 2.905492e-01 -1.2936402345 -3.383298e-01  
## [2882,] 0.2459838205 -1.092703e+00 1.648099e+00 -0.3326753708 1.133018e+00  
## [2883,] 1.0379825475 -9.051184e-01 3.364681e-02 -0.2712252506 -9.407655e-01  
## [2884,] 0.5498289978 2.233355e+00 -6.989568e-01 -0.4786719054 2.983709e-01  
## [2885,] 0.6665642457 1.600041e+00 -8.648390e-01 0.2718640984 -6.729817e-02  
## [2886,] 0.8231784900 1.739024e-01 -3.974673e-01 -0.7559446070 6.727114e-01  
## [2887,] 0.7585120239 1.907271e-01 -9.738011e-01 -0.3616965201 -1.017351e-01  
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## [2896,] 0.5560761767 -9.592038e-01 -2.935478e+00 0.0018953159 1.737755e-01  
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## [2901,] 0.8913076479 -3.965255e-01 1.003821e+00 0.4096465732 -2.830623e-01  
## [2902,] -0.2672856355 -2.118516e+00 -6.189332e-01 3.1162956960 -2.165392e+00  
## [2903,] 0.7188716023 9.297367e-01 -1.091336e-02 -1.1670878376 2.396932e-02  
## [2904,] 0.7352546777 -1.457056e-01 -7.987838e-01 0.1650486230 -1.271855e+00  
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## [2913,] 0.8672547587 1.725003e-01 3.906965e-02 -0.6838823810 -4.756480e-01  
## [2914,] 0.3460751212 -1.059419e+00 -2.168002e+00 0.5793071544 -1.369099e+00  
## [2915,] 0.2602796294 5.718932e-01 -1.792217e-01 -0.6593176211 1.696660e-01  
## [2916,] 0.9277183818 -2.552071e-01 6.758017e-01 -1.1317001825 7.287891e-02  
## [2917,] -0.2827363812 2.499188e+00 5.415289e-01 -0.2875333270 1.923171e+00  
## [2918,] -0.0203535700 4.080946e-01 1.726129e+00 0.7376545999 6.104934e-01  
## [2919,] 0.9979919433 4.137723e-01 1.046378e+00 1.9616787724 -9.070324e-01  
## [2920,] 0.9641696216 -4.416562e-01 6.929356e-01 0.0279897970 -5.098264e-01  
## [2921,] 0.9077637175 -6.193444e-01 4.398911e-01 -1.1294156779 -2.924253e-01  
## [2922,] 0.6455703757 1.276811e+00 4.283834e-01 -0.8411789237 -3.755664e-01  
## [2923,] 0.6498054599 9.548542e-01 5.236040e-01 -0.6727592037 -1.619833e-01  
## [2924,] 0.8630505916 -2.548696e-01 4.416403e-01 -0.5651863575 -4.425105e-01  
## [2925,] 0.5758535429 1.764024e+00 -9.514916e-01 -0.5380114835 1.862510e-01  
## [2926,] 0.6691680290 1.400053e+00 8.928389e-01 -0.3109635527 -2.740751e-02  
## [2927,] 0.8724874105 -3.218222e-01 -4.329842e-03 -1.7117435652 -2.178045e-02  
## [2928,] -0.8381537728 2.642139e-01 -3.475356e-01 0.1629323410 -7.607746e-01  
## [2929,] 0.7899313722 8.804006e-01 1.001137e+00 1.5073889738 -9.288359e-01  
## [2930,] 0.6871185128 7.031664e-01 5.890750e-01 -0.3296750481 -5.639481e-01  
## [2931,] 0.6170815208 1.308378e+00 4.960984e-01 -0.8884599146 -2.918723e-01  
## [2932,] -3.0565317328 1.284714e+00 -3.182171e-01 -0.2039810289 7.765576e-01  
## [2933,] 0.8794234669 -2.161797e-01 1.275529e+00 1.1605797955 -6.651779e-01  
## [2934,] 0.7719065628 9.535584e-01 -2.569206e-01 -1.3107660067 -3.731982e-01  
## [2935,] 0.2285482856 6.903801e-01 -4.334831e-01 -0.8988403130 2.292839e-01  
## [2936,] -0.8959480833 -1.638548e+00 -6.494331e-01 1.5806454939 -1.506868e+00  
## [2937,] 0.7139709537 4.859203e-01 7.801108e-01 -0.2419737768 -3.811719e-01  
## [2938,] 0.6316670464 1.219150e+00 5.477292e-01 -0.6683017301 -3.714896e-01  
## [2939,] 0.4976107479 1.471207e+00 -6.943484e-02 1.0359495359 -6.857500e-01  
## [2940,] -2.1239511121 -1.094768e+00 -7.440327e-01 -1.3317191410 -5.749741e-01  
## [2941,] 0.6764577019 5.923289e-01 8.729368e-01 -0.1342582157 -3.620465e-01  
## [2942,] 0.5876131580 1.455032e+00 6.488315e-01 -0.8509472403 7.240530e-02  
## [2943,] 1.0082716049 3.172870e-02 8.630612e-01 1.2743887651 -8.454566e-01  
## [2944,] 0.9018629017 3.515460e-02 1.292184e+00 1.3475827740 -3.022706e-01  
## [2945,] -0.8124045695 -2.884011e-01 -1.204971e+00 -0.2811412468 -9.737569e-01  
## [2946,] -0.7876771200 1.359277e+00 1.955001e+00 0.0812663218 2.798723e+00  
## [2947,] 0.7004895269 1.002917e+00 9.666693e-02 -1.1199313060 1.161365e-01  
## [2948,] 0.6821440257 5.612159e-01 7.945221e-01 -0.3306580786 -3.471468e-01  
## [2949,] 0.5101584596 -1.095724e+00 -3.455446e+00 -0.1291561668 -2.794387e-02  
## [2950,] -2.3718761313 6.090654e-01 -1.800413e+00 -0.6531247721 -2.660248e-01  
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## [2964,] 0.8968590276 -1.395047e-01 1.142933e+00 1.1035660719 -7.285363e-01  
## [2965,] 0.6365462639 1.011271e+00 5.764667e-01 1.5857673634 -8.747077e-01  
## [2966,] 1.1766228424 -1.079777e+00 5.468006e-01 1.8304476911 -1.542443e+00  
## [2967,] -0.1519667173 -2.059125e+00 -2.952693e-01 2.8261228587 -2.250232e+00  
## [2968,] 0.8043090222 4.844084e-02 5.462633e-01 -0.2649824992 -6.420531e-01  
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## [2972,] 0.7385736419 3.157010e-01 -1.290741e+00 0.1353504019 -3.053907e-01  
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## [3000,] 0.7771566803 1.861507e-01 -1.252952e-01 -0.2429298613 -7.815289e-01  
## [3001,] 0.9721904719 4.235906e-01 9.429118e-01 1.6152509881 -8.758373e-01  
## [3002,] 0.6454358278 7.775740e-01 5.841971e-01 -0.7751382137 -8.775235e-02  
## [3003,] -0.2406222302 -2.281827e+00 -6.895779e-01 3.0243680515 -2.197593e+00  
## [3004,] 0.9035105511 -5.439668e-01 3.678083e-01 -1.1395876567 -3.555057e-01  
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## [3006,] -8.2924798541 -1.711756e+00 1.342755e+00 -0.8396019682 -7.907222e-01  
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## [3008,] 0.1369095793 -2.171686e-01 7.931526e-01 -0.5552894689 5.710439e-01  
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## [3015,] 0.2350232926 6.228165e-02 -2.523004e+00 2.3748612760 3.227552e+00  
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## [3017,] -1.8588439704 -2.376840e+00 -9.603467e-01 0.4800250181 -1.793761e+00  
## [3018,] 0.0320478684 5.133855e-01 -6.226909e-01 -0.5331762111 2.708862e-01  
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## [3021,] 0.7251488379 1.516978e+00 3.539070e-01 0.8380851589 -7.683428e-01  
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## [3029,] 0.6408622408 -2.759790e-01 -2.957618e+00 1.4621688462 -2.881094e-01  
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## [3036,] 0.7694652048 1.256439e+00 1.364736e+00 1.9663050948 -6.486184e-01  
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## [3038,] 0.8903385029 7.201210e-01 -9.382651e-01 0.3883249810 6.307454e-02  
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## [3040,] -2.1034593938 -1.228345e+00 -7.246592e-01 -1.2994187041 -5.908903e-01  
## [3041,] 0.6694309131 9.128374e-01 -3.232641e-02 -0.7615499530 -3.669585e-01  
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## [3046,] 0.7728531712 9.169951e-01 9.744964e-01 1.3019182490 -8.902978e-01  
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## [3086,] 0.8601023527 7.165456e-02 -1.745193e-01 -1.0455344459 -3.037398e-01  
## [3087,] 0.1837533848 -9.539776e-03 -3.878099e+00 -0.8637226164 -2.888907e-02  
## [3088,] 0.8745431458 9.219298e-01 -7.089884e-02 -1.1729470208 -6.182908e-01  
## [3089,] 0.4945020053 8.262641e-01 2.478017e-02 0.5686312612 -1.096310e-01  
## [3090,] 0.4575382915 2.908350e-01 -1.249671e+00 2.5420037657 2.358317e+00  
## [3091,] 1.0334832631 -1.296358e+00 -7.464994e-01 -0.4199016004 -1.011634e+00  
## [3092,] 0.4043725781 1.879120e+00 2.489078e-01 0.5945537239 -4.969881e-01  
## [3093,] 0.8209573537 -6.158051e-02 1.577012e-01 -0.6878381406 -6.503164e-01  
## [3094,] -1.7714640596 1.598291e+00 -3.780720e+00 0.2571353252 8.750959e-01  
## [3095,] 0.5909921408 -3.433771e+00 -3.586092e+00 -0.6140588676 -1.345755e+00  
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## [3099,] 0.7165277690 8.456691e-01 -9.324588e-01 -1.9645157666 -1.918179e-01  
## [3100,] 0.7552445788 4.653092e-01 6.013845e-01 -1.0216783435 -1.256271e-01  
## [3101,] 0.8976461077 -8.106724e-01 8.517720e-01 0.1064768126 -5.664347e-01  
## [3102,] 0.8095900946 1.178189e+00 1.327942e+00 2.0203856238 -6.783891e-01  
## [3103,] 0.7613996529 6.071664e-01 -1.210290e-02 -0.9885763612 -3.581814e-01  
## [3104,] 0.8070892179 1.100650e-01 6.713558e-02 -0.5443431815 -4.439626e-01  
## [3105,] 0.7560281965 1.398613e+00 1.310474e+00 1.8822513986 -6.457258e-01  
## [3106,] 1.0844347862 -1.475308e+00 1.458252e+00 0.3002924567 1.293657e-01  
## [3107,] 0.7967611884 -9.306797e-01 3.065311e-01 0.4529371505 -5.463960e-01  
## [3108,] 1.0542519179 -6.004985e-01 8.304033e-01 -0.0620988268 -2.222348e-01  
## [3109,] 0.9537922861 -8.833220e-01 1.004055e+00 -0.8995949091 2.553426e-01  
## [3110,] -0.0749669617 1.882503e+00 6.488939e-01 -1.4375286617 1.743516e+00  
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## [3112,] 0.8357015311 -2.618879e-02 3.388705e-01 -0.7280365684 -5.922854e-01  
## [3113,] 0.7945600640 7.328870e-01 1.040464e+00 1.3879246304 -8.370527e-01  
## [3114,] -0.0558702668 -3.768965e-01 1.310087e-01 0.7381086572 -4.561446e-01  
## [3115,] 0.1286630904 -3.124144e-01 -3.701713e+00 1.0313404904 3.109271e-02  
## [3116,] 1.2069792145 -1.038911e+00 5.235741e-01 2.0311859558 -1.618269e+00  
## [3117,] -2.1856965274 1.135245e-02 -4.607320e-01 -0.5143077675 -9.564516e-01  
## [3118,] 0.6884831691 4.992208e-01 7.479804e-01 -0.4665164971 -3.166401e-01  
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## [3136,] -2.8146975242 -1.690499e+00 1.202941e+00 0.0385686609 1.724394e-01  
## [3137,] 0.2370265490 -1.015259e+00 1.665408e+00 -0.2586815808 1.130815e+00  
## [3138,] 0.6193257239 1.511028e+00 7.735995e-01 -0.0708154694 -3.908907e-01  
## [3139,] 0.2503132303 -1.143379e+00 1.677859e+00 -0.2594916914 1.143448e+00  
## [3140,] 0.9558784548 -3.584861e-01 1.429862e+00 1.2380066770 -3.616229e-01  
## [3141,] -7.6607459450 -9.346777e-01 8.972902e-01 -0.3883164406 -1.983399e+00  
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## [3145,] 0.7958756548 1.246821e+00 1.369561e+00 2.0563031782 -6.488450e-01  
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## [3150,] 0.6568689510 8.774475e-01 6.153999e-01 -1.3526852535 8.756025e-02  
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## [3152,] -8.4651882711 -8.107063e-01 1.203061e-01 -0.4039846658 -3.934218e-01  
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## [3180,] 0.6620507266 1.004474e-01 -3.693923e-01 0.4043525206 -7.832408e-01  
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## [3212,] -1.0696367858 1.611317e+00 4.914674e-01 -0.0372639742 5.613683e-01  
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## [3215,] 0.4373001361 4.084222e-01 -1.274892e+00 2.5261502321 2.352060e+00  
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## [3218,] 0.8868584248 -1.769624e-01 9.158842e-02 -1.2439519018 -3.207872e-01  
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## [3220,] 0.6852408335 7.187696e-01 5.410714e-01 -0.4550785079 -5.325107e-01  
## [3221,] 0.3885065524 8.051680e-01 -1.073635e+00 -1.0585947291 1.509011e-01  
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## [3228,] 0.1922072683 -4.832716e-01 3.470583e-01 0.5757435746 -5.840896e-01  
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## [3231,] 0.7260747977 -2.159610e-01 -9.639178e-01 0.0138767872 -1.164342e+00  
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## [3415,] 0.9415017143 -2.372573e-01 -3.784684e-02 0.3190321905 -1.252862e+00  
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## [3437,] 0.2926929184 6.085183e-01 -2.452270e+00 -0.5400735806 2.928791e-01  
## [3438,] 0.8051225634 -3.314798e-01 3.083042e-01 -0.9742491710 2.103774e-01  
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## [3607,] 0.8712923658 3.312282e-01 1.233272e+00 1.1981418679 -4.696632e-01  
## [3608,] 0.9219443041 -5.773990e-01 1.020413e+00 0.2748594945 -1.397730e-01  
## [3609,] 0.8326329798 1.346334e-02 1.407689e-01 -0.5564152739 -2.924868e-01  
## [3610,] 1.0642869506 -9.326672e-01 -3.866300e-01 0.0062234067 -5.907539e-01  
## [3611,] 0.9733012740 -2.916818e-01 1.359387e+00 1.6469541990 -5.705267e-01  
## [3612,] 0.7434857112 6.110896e-01 2.410678e-01 -1.4619459699 -2.082821e-01  
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## [3615,] 1.2543486227 -2.735677e+00 1.375267e+00 0.7122794921 -2.036242e-01  
## [3616,] 0.9314616379 -8.711110e-01 1.136897e+00 -0.8345230527 3.883229e-01  
## [3617,] 1.2320128950 -2.641445e+00 1.338354e+00 0.5414741631 -1.579477e-01  
## [3618,] 0.9029226344 -2.233116e-01 1.139621e+00 0.8932662514 -5.827282e-01  
## [3619,] 0.8036283402 5.700036e-01 6.297189e-01 -0.7703424772 -6.073334e-02  
## [3620,] 0.8674620233 1.489420e-02 8.641787e-01 -1.0208586045 3.083589e-01  
## [3621,] -3.7593635088 -4.204182e-01 -1.507380e+00 -0.1361006208 -8.232767e-01  
## [3622,] 0.6729219955 1.414463e+00 -6.768436e-01 -0.3786320438 5.143711e-01  
## [3623,] -8.4791406744 -6.736133e-01 1.136642e-01 -0.3513098234 -3.830173e-01  
## [3624,] -1.8418669468 -3.545367e+00 -1.445108e+00 1.3323458840 -1.314220e+00  
## [3625,] -1.8293598609 -2.446615e+00 -1.519567e+00 -0.2400685521 -8.092133e-02  
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## [3627,] 0.5550374316 -5.444433e-01 -1.394729e+00 3.1892258418 -5.106744e-02  
## [3628,] 0.3687304061 3.075005e-01 -2.673356e+00 -0.3111644331 3.579325e-01  
## [3629,] 0.5275636348 -2.302440e+00 -1.517675e+00 -0.2438694047 1.144532e+00  
## [3630,] 0.7109332387 6.427674e-01 -5.566142e-01 -1.6725358471 1.016602e+00  
## [3631,] -2.7558887859 -1.941725e+00 1.128266e+00 -0.0520649687 1.884771e-01  
## [3632,] 0.7212602440 -9.125775e-01 -9.627259e-01 0.0338879463 4.138461e-01  
## [3633,] 1.2869888804 -2.629460e+00 -2.515790e-01 0.1733827363 5.494983e-01  
## [3634,] -0.5000820526 -9.775274e-01 -1.256680e-01 -0.7440873572 -7.342805e-01  
## [3635,] 0.9881838535 3.575950e-01 -1.050711e+00 -0.1811450647 -1.278512e+00  
## [3636,] 0.1672282622 1.814515e+00 -2.527797e+00 -0.8006683884 2.665028e-01  
## [3637,] 1.0913086955 -1.451523e+00 -1.022405e-01 -1.1071946750 -2.916311e-03  
## [3638,] 0.7299837612 1.101031e+00 -4.079491e-01 -1.4526363305 -2.131590e-01  
## [3639,] 0.7470040855 9.289091e-01 -3.479411e-01 -1.3761800391 -1.954094e-01  
## [3640,] 0.7830698997 1.308988e+00 1.319862e-01 -0.1959611039 -5.858244e-01  
## [3641,] 1.1062961498 -1.522582e+00 -1.351502e-01 -1.1379771873 -1.987808e-02  
## [3642,] 0.8286165462 6.284774e-01 1.040274e+00 1.4482328320 -8.068976e-01  
## [3643,] 1.1860556524 -1.631261e+00 1.098397e+00 -0.0908691240 4.287084e-02  
## [3644,] 0.8430514725 3.898389e-01 1.313954e+00 1.2517000474 -4.294661e-01  
## [3645,] 0.6550318869 3.654930e-01 4.975235e-02 0.4901176427 -4.865771e-01  
## [3646,] 0.5947588386 1.593147e+00 8.715924e-01 0.0358818779 -3.204619e-01  
## [3647,] 0.2652029925 -1.340953e-01 -1.438616e+00 -0.9761336976 -2.509351e-02  
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## [3658,] 0.6740753837 1.198784e+00 -5.283408e-01 -0.3574697787 3.572199e-01  
## [3659,] 0.7748547601 5.096787e-01 2.098672e-01 -1.4075766279 -2.744507e-01  
## [3660,] 0.8850420867 2.935469e-01 9.070930e-01 0.6137649887 -4.178224e-01  
## [3661,] 0.8061546057 1.079623e+00 4.154238e-01 0.5946199950 -7.266091e-01  
## [3662,] 0.7655192384 -5.700940e-01 -3.193105e+00 -3.1581637227 1.495957e+00  
## [3663,] 1.0303192743 -9.070872e-01 -2.582212e-01 0.2056748925 -5.813016e-01  
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## [3666,] -2.2688353427 3.659416e-01 -4.460822e-01 -0.7500224403 -8.089514e-01  
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## [3682,] 0.7252124462 9.913313e-01 7.282117e-01 -0.5638785276 -1.059564e-01  
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## [3700,] 1.0070107900 -5.688197e-01 6.151011e-01 -0.0230171195 -2.722836e-01  
## [3701,] 0.1437865418 2.680796e+00 -1.711870e+00 -1.6941854123 8.492119e-01  
## [3702,] 0.7979456281 -9.472698e-01 -9.762612e-01 1.1215681704 2.884980e-01  
## [3703,] 0.1821405782 3.791892e-01 -2.962133e+00 -0.6361445282 5.698968e-01  
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## [3716,] 0.5862845818 -1.258278e+00 -1.963186e+00 0.0570547177 4.769243e-01  
## [3717,] 0.7674509739 1.229319e+00 2.417906e-01 -0.1762433136 -5.087092e-01  
## [3718,] -2.2487470171 3.258314e-01 -4.978546e-01 -0.7681963937 -8.289043e-01  
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## [3724,] 0.6857011870 7.320962e-02 -9.580354e-01 -1.9966135892 -3.388964e-01  
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## [3731,] 0.6621259284 7.981361e-01 7.602206e-01 -1.0950414407 1.471492e-01  
## [3732,] 0.9462924937 -1.256583e+00 -4.438397e-01 -2.5805651158 8.052133e-01  
## [3733,] 0.8687282261 4.010115e-01 9.292595e-01 0.5537972312 -3.452970e-01  
## [3734,] 0.6575832399 8.371503e-01 7.014143e-01 -1.2613422216 1.890121e-01  
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## [3736,] 0.6587555396 1.081602e+00 5.518626e-01 -0.8763341734 -1.783223e-01  
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## [3739,] 0.9683787249 3.545568e-02 -1.774157e-01 1.2063237298 -1.344967e+00  
## [3740,] -2.2864552284 4.348633e-01 -1.245781e+00 -1.2074632409 -1.194886e+00  
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## [3760,] 0.1476537583 2.761581e+00 -1.909161e-01 -1.6576926402 3.529328e-01  
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## [3779,] 0.6708149294 -7.152195e-01 -1.746384e+00 2.4204699774 -4.301305e-01  
## [3780,] 0.5358440596 2.737202e-01 -1.035428e+00 -0.7579783996 6.309433e-01  
## [3781,] 0.1029744445 4.211626e-01 5.678094e-01 1.7121476723 1.588440e+00  
## [3782,] 1.1094787453 -1.688825e+00 -4.885165e-01 -0.0153145792 1.638664e-01  
## [3783,] 0.6105885120 1.091671e+00 -1.183677e+00 2.6822162082 -5.507030e-01  
## [3784,] 0.5663478562 1.514275e+00 -9.602601e-01 -0.9017864237 3.484936e-01  
## [3785,] -0.6708700280 -2.780222e+00 -2.547125e+00 3.7266359215 -3.888743e-01  
## [3786,] -0.0860490479 1.884516e+00 -1.778736e-01 -0.3984043121 2.547260e+00  
## [3787,] 0.7418385475 5.215647e-01 -4.226244e-01 -0.2030650374 5.489252e-01  
## [3788,] 1.0108371931 -7.717904e-01 5.088753e-01 3.6929432345 -5.990762e-01  
## [3789,] -0.3746792439 -1.771319e+00 -1.536157e+00 2.8086595997 -1.224545e+00  
## [3790,] 0.7886478450 8.281061e-01 -3.367055e-01 0.1850789800 3.997298e-01  
## [3791,] 0.4613265654 -7.240966e-01 -2.604017e+00 1.2775881928 -4.863114e-01  
## [3792,] 0.0198573473 5.901105e-02 -2.380579e-01 -0.1561039330 1.429916e+00  
## [3793,] 0.9823128731 -1.255640e+00 -1.344944e+00 -1.2182113379 5.118795e-01  
## [3794,] 0.7185402931 5.559970e-01 -8.162050e-01 -0.6195606733 3.248809e-01  
## [3795,] 1.0770075179 -1.511486e+00 3.113429e-01 0.5348266486 7.075249e-01  
## [3796,] 0.1061468171 1.201441e-01 -1.767360e-01 0.2122940065 2.156305e+00  
## [3797,] -0.1992256312 1.612572e+00 3.060964e-01 0.4392975278 1.324710e+00  
## [3798,] 1.2029623786 -1.572401e+00 -1.116904e-01 0.9749487501 4.339666e-01  
## [3799,] 0.8432593199 1.356901e-01 -1.012104e+00 -0.8814128919 7.962297e-01  
## [3800,] 1.1499107406 -1.985251e+00 1.740744e-01 -0.8590363732 1.276403e+00  
## [3801,] 0.7022748830 7.867375e-01 -1.134117e+00 -0.1568677268 -2.764141e-02  
## [3802,] -0.2588901002 -3.119522e+00 -5.259610e+00 1.0712310836 1.488654e+00  
## [3803,] 0.9619706106 -8.773243e-01 -6.684122e-01 -1.1328710188 5.922877e-01  
## [3804,] 0.7977686496 -2.219510e-01 -6.312131e-01 1.7967473491 1.100436e-01  
## [3805,] -1.2199216649 -1.937461e+00 -5.052986e+00 3.2552208887 4.430855e+00  
## [3806,] -0.6357681015 -7.752949e-01 -2.163988e+00 0.0645346881 -2.971608e-01  
## [3807,] 0.7993021897 -1.731448e+00 -2.604402e+00 0.1408676453 -4.911579e-02  
## [3808,] 0.0376927200 3.520398e-01 -3.206597e+00 3.9148301280 -1.561264e-01  
## [3809,] 0.7484584740 -1.177359e+00 -1.106344e+00 -0.0834741175 8.878693e-01  
## [3810,] 0.5506022240 2.679540e-01 -1.680706e+00 1.3504069214 1.246276e-01  
## [3811,] -0.3553299515 1.827131e+00 -2.894121e-01 0.5721176964 1.410093e+00  
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## [3813,] 0.9142420367 -1.768611e+00 -5.161160e-01 0.2310578674 4.831547e-01  
## [3814,] 0.1645742940 6.464348e-01 -2.262018e+00 1.6602505040 -1.768749e-02  
## [3815,] 1.0521477057 -8.313177e-01 -5.868164e-01 0.3825715252 4.350741e-01  
## [3816,] 0.9542709373 -1.269801e+00 -5.813213e-01 0.9185721381 3.347039e-01  
## [3817,] -1.5234222180 -1.861552e+00 -3.377820e+00 2.5682858214 2.016032e-01  
## [3818,] 0.6421823409 4.174331e-01 -8.856146e-01 -0.4769931296 6.300810e-01  
## [3819,] 0.1773631359 -2.334973e+00 -2.918989e+00 0.6934244450 1.289577e+00  
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## [3821,] 0.7582774192 4.828593e-01 -5.212031e-01 -0.7851391072 5.935540e-01  
## [3822,] -3.7612154039 -4.428556e-01 -3.845003e-01 0.5750267390 -2.034751e+00  
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## [3829,] -0.1562145477 2.039180e+00 1.166506e+00 0.0217818603 1.611352e+00  
## [3830,] 0.1652315771 4.782374e-02 1.282936e+00 0.4321116639 1.505439e+00  
## [3831,] -0.5468710598 -2.763227e+00 -6.978027e-01 3.2256393704 -8.771361e-01  
## [3832,] 1.0690320279 -8.353518e-01 -6.257190e-02 0.4004804488 -5.989670e-01  
## [3833,] 0.7316722789 -1.919015e-01 2.151734e-01 0.3136181140 -4.171279e-01  
## [3834,] -0.0296582142 9.235571e-01 1.235187e+00 0.4750102370 3.435865e-01  
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## [3837,] -0.2012151328 2.137304e+00 1.247580e+00 -0.0128116376 1.686964e+00  
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## [3839,] 0.5570121404 1.166806e+00 -1.506687e+00 -1.9549294552 -6.722788e-01  
## [3840,] -8.4303130462 -9.733735e-01 1.777523e-01 -0.4112657686 -2.606931e-01  
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## [3845,] 0.6145626975 3.018418e-01 -6.914556e-01 -0.9357469888 -3.433926e-01  
## [3846,] -2.2592474117 3.198670e-01 -4.627659e-01 -0.9000976725 -7.188158e-01  
## [3847,] 1.0119930970 -7.296431e-01 5.985127e-01 -0.4081425376 -1.010282e-01  
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## [3858,] -0.1469721450 2.021308e+00 1.395023e+00 -0.2018417522 2.187579e+00  
## [3859,] -1.8062266615 -3.292947e+00 -2.667554e+00 -0.5306491241 -5.211314e-01  
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## [3862,] -0.6147303992 -1.738795e+00 1.585896e+00 -1.3365127337 5.821537e-01  
## [3863,] 0.6353481064 5.382751e-01 -8.258676e-01 -0.0297609227 -5.840001e-01  
## [3864,] 0.4883682170 1.955995e+00 -8.576643e-01 -1.2719670503 8.793623e-01  
## [3865,] 0.7969072167 3.358285e-01 5.133296e-01 -0.8478827597 -2.503454e-01  
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## [3867,] -0.1925170847 2.196959e+00 1.664027e+00 -0.1450478293 2.225143e+00  
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## [3870,] 0.7529554148 6.017626e-01 4.888051e-02 -0.4552787862 -5.330399e-01  
## [3871,] 1.3692491512 -8.397694e-01 -3.405469e-01 0.9982443677 -1.007240e+00  
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## [3877,] 0.9402904880 -2.884076e-01 9.761666e-01 0.4739847832 -1.964147e-01  
## [3878,] -0.0892086874 1.277355e+00 1.321419e+00 -0.0054019021 7.465333e-01  
## [3879,] -0.6295016795 -1.757111e+00 1.483661e+00 -1.3274937865 6.714525e-01  
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## [3886,] -3.4808208045 -1.664634e+00 -2.955325e-01 0.0104559087 -1.416222e+00  
## [3887,] 0.3888376711 2.717030e+00 2.822758e-01 -1.6621148575 2.256054e-01  
## [3888,] 1.4120533242 -2.973750e+00 8.821842e-01 -0.2920661065 -6.570332e-02  
## [3889,] 0.7771335813 1.114368e+00 3.978061e-01 0.4244776480 -6.693109e-01  
## [3890,] 0.9340228650 -4.116623e-01 7.309778e-01 0.0905168479 -8.188923e-02  
## [3891,] 1.0737288750 -5.986043e-01 9.192854e-01 1.0602124173 -2.065023e-01  
## [3892,] 0.1479769682 7.753728e-01 9.625220e-01 -0.2748959314 1.515517e+00  
## [3893,] -0.6024453087 -1.687802e+00 1.669269e+00 -1.0912397727 5.858154e-01  
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## [3902,] 0.5094367850 -8.935493e-01 -1.501869e+00 0.8381109775 -1.005536e+00  
## [3903,] 0.7198135632 9.490653e-01 7.057066e-01 -0.6706083381 -7.946889e-02  
## [3904,] 0.8015886501 3.625843e-01 5.561117e-01 -0.6597804537 -2.753284e-01  
## [3905,] 0.1297806754 -2.540701e-01 1.020634e+00 -0.3882177895 8.057444e-01  
## [3906,] 0.5869547911 6.643967e-02 1.124030e-01 -1.0918337089 1.183861e-01  
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## [3909,] 0.5439040933 1.532120e+00 8.048007e-01 -0.5772317328 -6.208368e-02  
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## [3912,] 0.1353940111 5.786763e-02 1.028668e+00 0.0293009360 1.634940e+00  
## [3913,] 1.4492827875 -3.131190e+00 6.257359e-01 -0.3630877113 -9.706814e-02  
## [3914,] 0.7463837693 5.693685e-01 4.694003e-02 -0.5515296710 -4.877525e-01  
## [3915,] 0.6456110074 5.867639e-01 -8.086967e-01 0.1152052054 -6.080692e-01  
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## [3920,] 1.2469872906 -2.997840e+00 -2.714088e-02 -0.3852143511 9.460942e-01  
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## [3941,] 0.7761747197 4.038096e-01 5.593804e-01 -0.8440012614 -1.916871e-01  
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## [3947,] 0.7845469842 -1.464289e+00 -5.089165e-01 -1.3258044045 1.720590e-01  
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## [3951,] 1.0446891354 -1.287524e+00 4.511015e-01 0.5843528541 -3.696160e-01  
## [3952,] 0.7661044770 4.250435e-01 8.120878e-01 -0.4937111010 1.094733e-01  
## [3953,] -8.1550496243 -2.362613e+00 1.345868e+00 -1.0620034507 -5.721839e-01  
## [3954,] 0.9500909474 1.114684e-01 -8.517311e-01 2.1999563401 -5.915027e-01  
## [3955,] -8.3740771492 -1.007020e+00 1.176107e+00 -0.6881019363 -9.430768e-01  
## [3956,] -0.1966610716 2.210594e+00 1.645511e+00 -0.1509435607 2.221617e+00  
## [3957,] 0.7879324076 6.267089e-01 3.493389e-01 -1.2570203373 -1.390675e-01  
## [3958,] 0.9434959003 -1.373917e+00 -3.395901e-02 0.6389660019 -3.279027e-01  
## [3959,] -0.3618823314 7.227893e-02 2.698483e-01 -0.2189781592 1.198218e+00  
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## [3961,] 0.7707067271 3.897362e-01 7.368986e-01 -0.5573162206 4.804176e-02  
## [3962,] 0.7096934993 1.056210e+00 7.099242e-01 -0.5525731934 -1.196783e-01  
## [3963,] -0.8851493199 7.360913e-02 -5.769635e+00 1.1243840476 4.176267e+00  
## [3964,] 0.6414380970 -2.698568e+00 -4.410221e-01 -0.6574583184 6.303812e-01  
## [3965,] -1.8062873555 -2.571817e+00 1.592046e-02 -0.3335400759 -4.939842e-01  
## [3966,] 0.8684436440 2.722126e-01 1.373634e+00 1.3082223095 -3.428762e-01  
## [3967,] 0.8184807650 -3.166735e-02 -1.280114e+00 -2.4500055190 1.498754e-01  
## [3968,] 0.7895883149 4.909435e-01 3.550987e-03 -0.4681149297 -5.427430e-01  
## [3969,] 1.1439393504 -1.592272e+00 1.402180e-01 -0.9347805013 2.409011e-02  
## [3970,] -0.6062499255 -1.841109e+00 1.436687e+00 -1.3922946874 6.702678e-01  
## [3971,] 0.5228029940 -9.299124e-01 -1.492352e+00 0.9565705910 -1.039724e+00  
## [3972,] -0.1071616702 1.394391e+00 1.325745e+00 0.0463869451 7.337511e-01  
## [3973,] 1.0332350384 -1.431436e+00 1.356363e-01 -1.2936203496 2.101701e-02  
## [3974,] 1.0045682256 -7.572235e-01 7.306540e-01 -0.3665348197 3.008893e-02  
## [3975,] 0.9957526063 -9.547757e-01 5.926610e-01 -0.5205337641 -2.164556e-01  
## [3976,] -0.1503543810 1.976891e+00 1.172042e+00 -0.0066856009 1.632572e+00  
## [3977,] 0.0671567258 5.561388e-01 2.118890e+00 2.0611675043 1.165947e+00  
## [3978,] -3.7478675604 -5.041935e-01 -4.874606e-01 0.2671586102 -1.960076e+00  
## [3979,] 0.7734328020 4.981090e-01 3.031533e-01 -1.3653131493 -1.431426e-01  
## [3980,] 0.5490454686 -1.042515e+00 -1.515931e+00 0.8864013459 -1.024206e+00  
## [3981,] 0.0337391430 5.543049e-01 2.115574e+00 1.7564520485 1.270487e+00  
## [3982,] 0.1295809912 8.644268e-02 1.110979e+00 0.1866493798 1.654521e+00  
## [3983,] 1.0361509004 -7.380129e-01 6.475455e-01 -0.0262130378 -2.083084e-01  
## [3984,] 0.6019835921 3.616468e-01 -8.661601e-01 -1.0308070267 -2.530560e-01  
## [3985,] 1.2259434306 -1.901101e+00 1.207092e+00 0.1343532482 2.942718e-03  
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## [3990,] -0.1541406304 2.054956e+00 1.615975e+00 -0.2151863255 2.227387e+00  
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## [3993,] -2.7095434666 9.621928e-01 -1.033853e-02 -0.5005020532 -5.269910e-01  
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## [4001,] 0.9117562384 -5.491067e-01 6.137836e-01 -1.3316333126 5.874706e-01  
## [4002,] 0.4832683671 -1.614153e+00 -1.898729e+00 0.4566167368 -1.384745e+00  
## [4003,] -3.6692490088 -6.899527e-01 -3.924887e-01 -0.4434125239 -1.338452e+00  
## [4004,] -0.5175727098 -2.874705e+00 -9.045345e-01 3.2474626591 -8.704023e-01  
## [4005,] -0.1604437861 2.067690e+00 1.684769e+00 -0.0338844971 2.210857e+00  
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## [4010,] 0.3739472464 3.836733e-01 -1.071769e+00 -0.7623646851 -1.714055e-01  
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## [4060,] 0.9586789414 -7.234291e-01 2.134008e+00 3.8733323811 -8.708477e-01  
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## [4062,] 1.0432798663 -1.361167e+00 4.131825e-01 0.3227945862 -2.801848e-01  
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## [4122,] -3.7417180086 -6.183892e-01 -2.997404e-01 0.6098667703 -1.934152e+00  
## [4123,] -8.3641881303 -1.031315e+00 1.162372e+00 -0.7046730838 -9.299026e-01  
## [4124,] 0.9554418894 -9.256096e-01 3.338119e-01 0.7108582781 -3.509878e-01  
## [4125,] 0.8407550036 2.720772e-02 6.160652e-01 -1.0201080848 9.479551e-03  
## [4126,] 0.8087175038 1.198721e+00 -5.165222e-02 1.7040275302 2.185208e-01  
## [4127,] -0.0244783939 9.420060e-01 1.223946e+00 0.4528882465 3.768499e-01  
## [4128,] -3.6573869461 -7.252076e-01 -4.543479e-01 -0.6075079723 -1.291213e+00  
## [4129,] 0.8968146771 3.160008e-01 7.010972e-01 0.6951559841 -4.667407e-01  
## [4130,] 0.4973872034 -2.494259e+00 -1.204089e+00 0.4485171743 5.434754e-01  
## [4131,] -3.7388153266 -6.194737e-01 -3.942669e-01 0.4279814761 -1.941694e+00  
## [4132,] 0.5821766974 9.095061e-01 5.155170e-01 0.0060731069 -8.147922e-02  
## [4133,] 1.1198443055 -1.040411e+00 1.013015e+00 0.4541864288 -2.253875e-01  
## [4134,] 1.0809488931 -1.059386e+00 1.527895e+00 1.0331250064 -1.314376e-01  
## [4135,] 0.6295591229 6.674948e-01 -5.110531e-01 0.3231110231 -5.916042e-01  
## [4136,] 0.9057732269 -1.226744e+00 -2.899396e-02 0.5722015373 -2.750571e-01  
## [4137,] 0.7548470562 -5.885938e-01 2.493786e-01 2.0325328463 -7.880838e-01  
## [4138,] -0.1570596841 2.140258e+00 1.625228e+00 -0.0568791103 2.199476e+00  
## [4139,] 0.8854321665 4.734407e-01 7.218375e-01 -0.2323584519 -1.361938e-01  
## [4140,] 1.0051100877 -4.503371e-02 2.457875e-01 1.8709778662 -1.151861e+00  
## [4141,] -1.7703421649 -2.651366e+00 1.018044e-01 0.0340439507 -5.524317e-01  
## [4142,] -8.1385868879 -2.486699e+00 1.405479e+00 -1.0615814500 -4.907471e-01  
## [4143,] 0.8928174598 4.275103e-01 7.703849e-01 -0.1577851356 -1.329860e-01  
## [4144,] 0.9597530516 -6.591352e-01 2.093384e+00 3.8410306950 -8.841256e-01  
## [4145,] 1.0206757163 -7.894575e-01 8.756442e-01 -0.3103063248 -3.242701e-02  
## [4146,] -0.8765419453 1.041534e+00 6.924716e-01 1.6541374063 2.987058e+00  
## [4147,] -1.0078583933 -2.139642e+00 -3.354563e+00 2.8969765126 3.765257e+00  
## [4148,] 0.7388267763 6.247369e-01 -3.105808e-01 -0.1468330863 -5.255756e-01  
## [4149,] 1.1944969847 -8.825332e-01 7.631986e-01 0.6223470061 -4.598803e-01  
## [4150,] 0.0866868529 -2.684557e-01 1.835130e+00 0.1204090133 1.208809e+00  
## [4151,] 0.7735556181 8.092646e-01 4.294877e-01 -0.9722480067 -1.399585e-01  
## [4152,] 0.6264054535 2.875802e-01 -8.728100e-01 -0.9281600401 -2.840728e-01  
## [4153,] 1.0337263022 -9.082824e-01 1.409296e+00 0.9695997922 -3.136964e-02  
## [4154,] 0.8729016404 -7.598056e-01 1.849800e+00 4.2078842353 -9.330739e-01  
## [4155,] -0.0329039253 9.836777e-01 1.277078e+00 0.5137265239 4.022657e-01  
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## [4158,] 0.8471725151 -9.260088e-02 -1.023691e+00 -2.1076342338 7.229490e-02  
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## [4170,] 0.7711523131 3.563379e-01 3.289838e-01 -1.0356213477 -1.331755e-01  
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## [4173,] 0.8316414464 2.030445e-02 1.736248e-01 -0.9853048795 -2.973600e-01  
## [4174,] 1.3331723946 -3.275689e+00 1.285992e+00 -0.6551579648 3.821038e-01  
## [4175,] 0.1600451748 5.454069e-01 -1.000269e+00 4.0413203760 -4.375962e-01  
## [4176,] 1.3531086141 -3.223975e+00 1.153333e+00 -0.7185026003 3.179213e-01  
## [4177,] 0.7551891103 1.259002e+00 -4.410964e-01 1.6055210011 -2.192795e-01  
## [4178,] -2.7378129748 1.087074e+00 -8.329533e-02 -0.6735619479 -5.141586e-01  
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## [4180,] 0.9448612355 -6.623293e-01 5.342931e-01 -0.5020153490 -2.026593e-01  
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## [4197,] -0.5583128026 -1.764206e-01 -5.385394e-01 -0.6787784422 -5.958463e-01  
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## [4203,] 0.6753021543 -8.482498e-01 -3.167473e-01 2.3528887466 -7.689192e-01  
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## [4210,] 1.0579686446 -1.014139e+00 1.537376e+00 0.9698627549 -1.144266e-01  
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## [4212,] 1.0245271834 -1.381835e+00 -4.908039e-02 -1.2500486659 4.668562e-02  
## [4213,] -0.6768712846 8.881901e-01 2.105169e+00 0.9990616809 2.348668e+00  
## [4214,] 0.1191969258 -3.845780e-01 1.782558e+00 0.0588608748 1.192637e+00  
## [4215,] 0.9877413774 -6.445197e-01 8.710412e-01 -0.4684787717 4.961525e-02  
## [4216,] -1.6749955416 -3.652877e+00 -1.738831e+00 -1.1361854129 -1.061139e+00  
## [4217,] 0.7185413716 1.031745e+00 8.013568e-01 -0.4345671525 -4.373942e-02  
## [4218,] 0.8758764286 1.290196e-01 5.942259e-01 -0.1825747215 -1.934251e-01  
## [4219,] 0.5016164706 1.854984e+00 1.633639e+00 0.4786246402 4.346983e-01  
## [4220,] -0.1359405880 2.023784e+00 1.458902e+00 -0.1229218545 2.268902e+00  
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## [4222,] 0.7713391557 2.606878e-01 -5.582232e-01 -0.2310238939 2.008057e-01  
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## [4229,] -2.2234253107 -2.297853e+00 -8.107846e+00 5.6604895780 2.524530e+00  
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## [4232,] 0.9887143390 1.139920e-01 7.675664e-01 0.5002637420 -2.153774e-01  
## [4233,] 0.9396852093 -2.803310e-01 3.397923e-01 -0.4751650051 -5.930198e-02  
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## [4239,] 0.9596133421 -7.112809e-01 2.108491e+00 3.8261493743 -8.692061e-01  
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## [4244,] -0.5953244349 2.778929e-02 -3.255396e-01 -0.7546413484 -5.342999e-01  
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## [4254,] 0.7831657077 1.321002e+00 1.629236e+00 1.9005994414 -2.003527e-01  
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## [4257,] -0.6873859506 9.291712e-01 2.114070e+00 0.9117852046 2.418393e+00  
## [4258,] -1.6217591219 -3.785523e+00 6.697508e-02 0.7690816862 -1.817255e+00  
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## [4279,] -0.6917186715 1.007915e+00 1.195412e+00 1.9352191954 -1.095741e+00  
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## [4289,] 0.7485108747 9.279293e-01 7.271342e-01 -0.6005849874 -1.701132e-02  
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## [4296,] 1.0492588447 -1.622385e+00 1.099610e+00 0.1314390381 -1.164677e-01  
## [4297,] 1.1814928992 -8.911158e-01 8.787364e-01 1.2103323750 -6.682957e-01  
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## [4299,] 0.1473176284 -2.952954e-01 1.053529e+00 -0.3619074206 8.672217e-01  
## [4300,] 0.9338504748 -2.929018e-01 3.298277e-01 -0.5776666767 -1.764061e-02  
## [4301,] 0.8970373154 4.243856e-01 8.043320e-01 -0.1113989591 -8.588090e-02  
## [4302,] 0.7011445190 1.400883e+00 -5.034407e-03 -1.5188158074 1.997329e-01  
## [4303,] -3.6715140489 -7.339845e-01 -4.621585e-01 -0.6825414485 -1.272315e+00  
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## [4306,] 0.9525052610 -4.451769e-01 5.817713e-01 -0.4519246625 -4.895257e-02  
## [4307,] 0.7531181754 1.249865e+00 1.211301e+00 1.7709133230 -6.529659e-01  
## [4308,] 0.6363669893 -9.098906e-02 1.295093e-01 -0.9825471399 1.277886e-01  
## [4309,] -8.1156660598 -1.422944e+00 1.402535e+00 -0.2373671782 -5.942064e-02  
## [4310,] 1.1177643817 -1.067473e+00 1.006371e+00 0.3362547299 -1.622317e-01  
## [4311,] 0.1277576757 -2.650991e-01 8.060248e-01 -0.5078546441 8.762614e-01  
## [4312,] 0.7125149628 1.142593e+00 5.903456e-01 2.1966943150 -8.688721e-01  
## [4313,] 0.7530751616 1.101515e+00 2.592914e-01 -0.0051853792 -5.482287e-01  
## [4314,] 0.8060934607 4.102239e-01 3.406751e-03 -0.4305711603 -5.296079e-01  
## [4315,] 0.1651122945 -3.766609e-01 9.823342e-01 -0.4612902601 8.498615e-01  
## [4316,] -0.0516504614 1.133894e+00 1.307583e+00 -0.0373133174 7.959279e-01  
## [4317,] 0.9609216720 -4.313962e-01 9.564668e-01 0.2852207808 -9.767880e-02  
## [4318,] -0.4427177315 -1.911970e-01 -3.174703e-01 -0.0190521263 1.280830e+00  
## [4319,] 0.4217210638 2.509707e+00 1.406082e-01 -1.7590901788 3.782002e-01  
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## [4321,] -1.6233531151 -3.858011e+00 3.555557e-02 0.5417118956 -1.746549e+00  
## [4322,] -9.0077632638 -1.220488e+00 9.344075e-01 -0.1423778453 1.764957e+00  
## [4323,] -3.6398473245 -8.758578e-01 -3.832487e-01 -0.4717387487 -1.299373e+00  
## [4324,] 0.7744447864 4.635912e-01 -5.145573e-01 0.2600534825 2.650227e-01  
## [4325,] -5.3515242342 7.437348e-01 -4.239747e-01 -0.0229895979 2.264237e+00  
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## [4327,] 0.8011397530 3.501928e-01 3.646349e-01 -0.8129755236 -1.555191e-01  
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## [4345,] -0.7869622753 8.093077e-01 1.769314e+00 1.3879652614 2.385291e+00  
## [4346,] 1.3309189903 -4.969632e+00 -1.229662e+00 -0.4039321742 7.611775e-01  
## [4347,] 0.3320302435 -7.056933e-01 -2.671431e+00 3.0873369102 -9.201042e-02  
## [4348,] 1.1165525576 -2.132634e+00 -4.094952e-02 -0.4203951638 8.070060e-01  
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## [4399,] 0.7177772444 1.108545e+00 6.908130e-01 2.4025200233 -8.559427e-01  
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## [4401,] 0.0673090500 4.918502e-01 2.114078e+00 1.7299820614 1.350192e+00  
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## [4404,] 1.3456562465 -1.990330e+00 1.089569e+00 0.7278451451 -2.087530e-01  
## [4405,] 0.8553910850 1.023048e-01 5.696458e-01 -0.2340380279 -2.454171e-01  
## [4406,] 0.6257664236 -1.343141e-01 -1.561494e+00 0.2218142793 1.556786e-01  
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## [4409,] 1.1722076043 -2.330491e+00 1.285628e+00 -0.3467752174 2.883055e-01  
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## [4414,] -7.4856762133 -1.764704e+00 8.937186e-01 -0.6785329404 -1.697452e+00  
## [4415,] 0.7363617518 9.178278e-01 1.722468e-01 -1.1366122587 -1.014797e-01  
## [4416,] 1.1465447655 -1.129587e+00 9.175275e-01 0.2748070185 -1.883272e-01  
## [4417,] -0.7806233628 7.643720e-01 1.765963e+00 1.4060904658 2.378830e+00  
## [4418,] 0.9948792187 -7.290915e-01 2.290928e+00 3.9587762179 -8.979251e-01  
## [4419,] -9.0971052167 -1.013778e+00 2.621090e+00 0.1773066496 1.461686e+00  
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## [4422,] 0.8424204274 -7.388664e-01 2.708281e-01 0.8522688214 -3.833432e-01  
## [4423,] 0.6292550840 -3.799841e-02 -7.306050e-01 -0.8132970022 -3.355978e-02  
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## [4425,] -5.3736547229 8.118511e-01 9.634858e-01 -0.0395517723 1.840518e+00  
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## [4428,] 1.0261188347 -9.553795e-02 5.461949e-01 2.1235878477 -1.115270e+00  
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## [4432,] -1.7712498558 -6.762108e+00 -2.310208e+00 3.0713728105 -7.262754e-01  
## [4433,] 0.7226872967 1.031521e+00 -8.052309e-01 -0.1529755851 2.881358e-01  
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## [4436,] 0.6480618798 1.012248e+00 -5.873293e-01 -0.0557804858 9.854803e-02  
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## [4466,] 0.9653611195 -6.632825e-01 7.471920e-01 0.4457662661 -4.362548e-01  
## [4467,] 0.8276842921 1.184993e-01 7.524094e-02 -1.1113803867 -2.872504e-01  
## [4468,] 1.2484592638 -2.015891e+00 1.192860e+00 -0.0445241004 1.339586e-01  
## [4469,] -0.5445891742 5.965927e-01 -4.578967e+00 2.3604486227 3.708486e+00  
## [4470,] 0.6925723727 -3.658993e-01 -2.178264e+00 -1.1986187848 8.080535e-01  
## [4471,] 0.9924512135 -8.656191e-01 2.179272e+00 4.0056602932 -8.579080e-01  
## [4472,] 0.1270055976 -3.658932e-01 -2.154660e+00 1.4570538158 -3.335374e-02  
## [4473,] 0.7385089610 1.233059e+00 4.929645e-01 0.5730459152 -5.666875e-01  
## [4474,] 0.8862610285 -4.777040e+00 -4.925456e+00 -6.4394739350 -2.607576e+00  
## [4475,] -0.0019860890 -3.801429e-01 1.421068e+00 0.3919224190 1.254206e+00  
## [4476,] -7.5069520430 -1.724821e+00 9.982143e-01 -0.5856940266 -1.631388e+00  
## [4477,] 0.1248948409 -3.747529e-01 1.749868e+00 0.0982427033 1.166683e+00  
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## [4479,] 0.1352654075 -2.491716e-01 1.088304e+00 -0.3169103183 9.031749e-01  
## [4480,] -7.5027195877 -1.730757e+00 9.632956e-01 -0.6151768145 -1.647398e+00  
## [4481,] 0.8276959031 2.775455e-02 2.250370e-01 -0.9919139330 -1.987112e-01  
## [4482,] -7.5065516037 -1.784006e+00 9.387729e-01 -0.7911619203 -1.607941e+00  
## [4483,] 0.8082327716 4.287903e-01 2.908252e-01 -0.2383512886 -4.986156e-01  
## [4484,] 1.0613672856 -1.645834e+00 1.144101e+00 0.2322582707 -1.085500e-01  
## [4485,] 0.9661824052 -7.857544e-01 4.755658e-01 -0.7256553636 -1.132078e-01  
## [4486,] -0.0449128045 1.122964e+00 1.265432e+00 -0.1043288701 8.137772e-01  
## [4487,] 0.9491299721 -6.800607e-01 5.784343e-01 -0.4224483166 -1.664199e-01  
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## [4489,] 1.0398573399 -8.699309e-02 4.403686e-01 1.9517864111 -1.115918e+00  
## [4490,] 0.9298918084 -3.177340e-01 5.988575e-01 -0.5568364345 6.205030e-02  
## [4491,] 0.1675183933 8.669269e-01 1.270290e+00 0.0972990810 1.567924e+00  
## [4492,] 1.1779097858 -9.182156e-01 6.408311e-01 0.9680656164 -5.870451e-01  
## [4493,] -0.9635902656 1.274235e+00 1.755423e+00 -0.1417799423 2.012189e-01  
## [4494,] 0.7295880568 1.104819e+00 6.108754e-01 2.3080559745 -8.694052e-01  
## [4495,] 0.8087513334 4.888018e-01 2.454045e-01 -0.3368606408 -4.849132e-01  
## [4496,] 0.8102711062 2.521800e-01 4.497008e-01 -0.4771768261 -4.312151e-03  
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## [4498,] 0.8194870329 1.921987e-01 3.892613e-01 0.0968153908 -4.186810e-01  
## [4499,] 0.6355141863 5.052532e-01 -6.843340e-01 0.3214208937 4.378142e-01  
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## [4538,] 0.7420234435 9.836807e-01 -1.336549e-01 -1.4052537731 -4.532787e-02  
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## [4565,] 1.6755146179 -5.152856e+00 7.624459e-01 -0.3929033655 -1.272731e-02  
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## [4569,] 0.8851979938 4.403518e-01 7.177098e-01 -0.4175919847 -1.365432e-02  
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## [4571,] 0.1002141169 -2.998400e-01 1.825361e+00 0.0487227907 1.294747e+00  
## [4572,] -0.0747590042 1.229973e+00 1.405268e+00 0.1125852861 8.465646e-01  
## [4573,] -8.3011951539 -9.812433e-01 1.369042e-01 -0.6565166414 6.511062e-01  
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## [4575,] -0.6664559488 9.193865e-01 1.334036e+00 2.1571557357 -1.008010e+00  
## [4576,] -7.4941878850 -1.689283e+00 9.557847e-01 -0.5316068812 -1.675911e+00  
## [4577,] 0.9557954853 -6.684799e-01 4.973492e-01 -0.6230705366 -1.199937e-01  
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## [4582,] -9.0950742372 -1.032957e+00 2.657312e+00 0.1998426130 1.507043e+00  
## [4583,] 1.0249888798 -7.298344e-02 5.316746e-01 2.0098753723 -1.058757e+00  
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## [4585,] -2.7256507592 9.841042e-01 2.456007e-02 -0.4691455726 -4.740556e-01  
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## [4587,] 0.8273924430 1.070908e+00 1.577793e+00 1.7522945998 -1.455630e-01  
## [4588,] 1.0881790826 -1.102909e+00 -1.058517e+00 -2.1843123263 -1.349336e-01  
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## [4591,] 1.1514563127 -2.030716e+00 -3.520775e-01 -0.5390782005 8.501707e-01  
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## [4593,] 0.8159263013 7.748080e-01 -6.465953e-01 0.0367260839 4.721701e-01  
## [4594,] -0.0112642852 8.912584e-01 -2.724393e+00 1.5862627939 3.586429e+00  
## [4595,] -0.3705407860 -1.717121e+00 -4.997644e+00 3.8719303343 3.608400e+00  
## [4596,] 0.5202891416 1.897005e+00 -1.383313e+00 -1.3683575185 6.842926e-01  
## [4597,] 1.6479032512 -5.193292e+00 3.849666e-01 -0.6922823985 1.339732e-01  
## [4598,] 1.1369754438 -1.204936e+00 1.085958e+00 0.3444825587 -4.857936e-02  
## [4599,] 0.6670231817 2.006484e+00 1.176289e+00 1.2394179362 -2.572896e-01  
## [4600,] -7.1827021802 -3.979862e+00 1.232225e+00 -1.6553819724 -8.950655e-01  
## [4601,] 0.8629992327 2.463067e-01 8.360761e-01 0.0999556911 -2.768463e-01  
## [4602,] 0.7606313130 1.082022e-01 -7.772438e-01 0.1158934318 5.885058e-01  
## [4603,] 0.2144906724 1.494089e+00 -2.243895e+00 0.6788690323 5.835847e-01  
## [4604,] 1.3761146026 -3.382561e+00 1.368694e+00 -0.3949642363 4.022976e-01  
## [4605,] 0.8534122267 1.434597e-01 6.482448e-01 -0.1675407902 -1.537326e-01  
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## [4609,] 0.8854928678 1.459540e-01 5.843344e-01 0.0054916006 -2.889303e-01  
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## [4616,] 0.7413057874 9.367176e-01 -6.725531e-02 -1.2758370196 -3.941728e-02  
## [4617,] 0.8257556697 -1.755049e+00 -1.449556e+00 0.4649295963 4.963040e-01  
## [4618,] 0.1951573627 1.136947e+00 -2.340850e+00 1.2246653837 3.602530e+00  
## [4619,] 0.2043758329 2.867984e-01 -2.101991e+00 0.8609079183 2.748148e+00  
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## [4624,] 0.9496712269 -7.362867e-01 5.673354e-01 -0.4503020919 -1.621620e-01  
## [4625,] 1.1203703160 -1.072258e+00 9.701662e-01 0.1833458421 -8.631284e-02  
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## [4627,] 0.6958839139 -2.117071e-01 -6.005243e-01 -0.7597628157 -6.706371e-02  
## [4628,] 0.7651466917 9.074593e-01 1.511960e-01 -1.0172000311 -1.252498e-01  
## [4629,] 0.1094763945 -3.373278e-01 1.836951e+00 0.0760273448 1.298131e+00  
## [4630,] 0.9613282409 -2.462574e-01 1.026698e-01 2.4165947778 -1.108426e+00  
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## [4636,] 1.1173418778 -1.637307e+00 1.107996e+00 0.0412409806 -4.878416e-02  
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## [4645,] -7.4982654691 -1.788381e+00 9.157037e-01 -0.8068583591 -1.599965e+00  
## [4646,] 1.1238824276 -1.642715e+00 1.021572e+00 -0.0999614769 -7.388441e-02  
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## [4648,] 0.7203294546 1.206883e+00 1.450248e-01 -0.0698275544 -3.992588e-01  
## [4649,] -0.6614365031 8.272239e-01 2.095269e+00 0.9110997117 2.447463e+00  
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## [4655,] 0.7309793577 1.249376e-01 6.229015e-01 -0.0232656842 2.089702e-01  
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## [4663,] 1.0015285315 5.890576e-02 9.903325e-01 0.4024553279 -8.261168e-02  
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## [4665,] 0.7837538936 -1.842969e-01 -5.165428e-01 -0.5672934472 -1.519344e-01  
## [4666,] 0.8911534616 -1.600905e+00 6.629952e-01 -0.4461657753 4.354930e-01  
## [4667,] 0.7903940047 -1.551094e-01 -4.863583e-01 -0.4769594202 -1.555489e-01  
## [4668,] 0.8788899616 5.040801e-01 4.703351e-01 -0.3842733975 -4.394075e-02  
## [4669,] 0.7544643934 -4.492823e-01 -1.247718e+00 -0.9589074820 9.371601e-01  
## [4670,] 0.6047685485 6.392464e-01 -1.148033e+00 -0.6252050608 4.830532e-01  
## [4671,] -1.6491675107 -6.788727e+00 -6.526209e-01 2.5031288100 -1.159976e+00  
## [4672,] -5.3278683265 6.542955e-01 9.449693e-01 -0.0726450862 1.870266e+00  
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## [4691,] 0.7359840798 9.829292e-01 1.897946e-01 -1.1289091615 -4.524202e-02  
## [4692,] 1.2042361497 -1.028137e+00 6.651577e-01 1.0166394924 -5.440062e-01  
## [4693,] 0.8637631347 -8.044527e-01 3.280758e-01 0.9765354644 -3.406169e-01  
## [4694,] -0.7685876893 7.397517e-01 1.785026e+00 1.3242280083 2.489164e+00  
## [4695,] -0.6343293477 7.111830e-01 2.091158e+00 0.9363613349 2.433233e+00  
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## [4697,] 0.6306436203 -1.216908e+00 -1.138758e+00 -0.9765969278 5.203216e-01  
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## [4715,] 1.0246846653 -9.344601e-01 -2.682791e-01 1.1906844932 -1.404935e-01  
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## [4721,] 0.1684095394 -5.100290e-01 -2.720635e+00 2.0613686735 -3.616749e-01  
## [4722,] 0.0514368089 1.944438e+00 1.985074e+00 1.5380006441 1.849908e+00  
## [4723,] 1.2105401242 -1.806520e+00 -1.031473e-01 1.3080813329 2.548150e-01  
## [4724,] 0.8913336468 -7.050411e-01 -8.144414e-01 0.4625235881 3.598596e-01  
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## [4726,] 1.2753184611 -2.639191e+00 -4.103689e-01 0.2769801028 6.019192e-01  
## [4727,] 1.2865705397 -3.264986e+00 -7.912319e-02 -0.2565020223 8.804898e-01  
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## [4730,] -0.7672083742 8.569126e-01 -2.292923e+00 0.2942995293 1.610830e+00  
## [4731,] 1.0405570398 -1.496968e+00 -2.325270e-01 -1.0455782166 1.269191e+00  
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## [4733,] 1.2986364717 -2.824125e+00 -5.052767e-01 -1.2167137524 1.360897e+00  
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## [4750,] 0.9367116864 -1.643103e+00 -1.861028e+00 -0.0760212347 1.648213e-01  
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## [4752,] 0.3910292259 -1.285816e-01 -1.842179e+00 -0.8497533801 7.691511e-01  
## [4753,] -0.4397800347 5.026277e-01 -2.231007e+00 4.2100891306 4.832464e+00  
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## [4767,] 1.0847802976 -2.012047e+00 -1.285900e+00 0.1327286254 -9.891027e-03  
## [4768,] 0.9940762953 -3.848092e+00 -2.609921e+00 0.3234855131 4.759459e-01  
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## [4773,] -1.2664077305 -3.432888e+00 -1.534632e+00 -0.0340814823 1.979716e+00  
## [4774,] 0.8216622208 1.075201e+00 -7.788484e-02 0.2595638833 8.632994e-01  
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## [4776,] 0.1831368804 -2.249815e+00 -3.643051e+00 1.3536546807 8.437472e-01  
## [4777,] -0.1894008915 -1.857833e+00 -4.553248e+00 2.3722993870 1.318122e+00  
## [4778,] 0.2564522699 -3.843662e-01 -3.415756e+00 -1.5342036070 1.452119e+00  
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## [4784,] -5.3403138961 6.861718e-01 1.010551e+00 0.0713126571 1.867023e+00  
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## [4804,] 1.0324328213 -1.379991e+00 -1.273168e-01 -0.9241991430 -2.659469e-01  
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## [4814,] 0.8287561473 6.049583e-02 6.315474e-01 -0.5514743911 -2.142004e-01  
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## [4816,] -0.5189006818 8.846440e-01 -3.561765e-01 0.2874639981 9.348652e-01  
## [4817,] -0.4164037794 -8.850029e-01 -4.952672e-01 2.2177939228 -1.524271e+00  
## [4818,] -0.6799621116 8.654548e-01 1.335589e+00 1.9051148830 -8.832428e-01  
## [4819,] 1.2534741145 -2.248085e+00 8.431946e-01 -0.8776563551 2.210201e-01  
## [4820,] 0.0651412573 1.851378e+00 2.043767e+00 1.6337817036 1.856001e+00  
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## [4822,] 0.9022247507 1.236396e-01 6.880318e-01 -0.2569806986 -1.561690e-01  
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## [4824,] 0.7620758206 -1.754050e-01 -6.998100e-01 -0.7538996096 -5.314569e-02  
## [4825,] 0.8816546884 -7.842716e-01 5.039177e-01 1.0806784533 -3.881833e-01  
## [4826,] 0.8742342482 2.033865e-01 8.263197e-01 0.0624862569 -2.366579e-01  
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## [4833,] 1.1312367512 -1.660432e+00 1.015732e+00 -0.2443665008 2.789851e-02  
## [4834,] 0.8212118889 7.850042e-02 4.326428e-01 -0.0427367002 -2.869038e-01  
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## [4865,] 0.0186367460 1.851546e-01 8.204463e-01 0.2858018271 1.621367e+00  
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## [4923,] 0.6624080137 4.373474e-01 9.474148e-02 -0.7353643220 -1.232716e-02  
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## [4986,] 1.0223681395 -1.498567e+00 -5.160943e-01 -0.6609277973 9.305876e-01  
## [4987,] 1.2046209745 -1.957682e+00 8.664029e-01 -1.4455903241 5.926521e-01  
## [4988,] 1.4604740045 -5.392242e+00 -9.825043e-02 -0.5880729355 2.490194e-01  
## [4989,] -3.2985276169 -3.381137e+00 -4.858025e-01 -1.0426428999 -1.112583e+00  
## [4990,] 0.8630262238 6.375404e-01 4.265129e-01 0.5409635033 -3.412854e-01  
## [4991,] -1.6912501818 -7.108593e+00 -1.077739e+00 2.8520443346 -1.154437e+00  
## [4992,] 1.4605874237 -3.295032e+00 6.313321e-01 -1.5983381710 7.121978e-01  
## [4993,] 0.6061798824 -3.199854e-01 -1.112557e+00 -0.3722265897 -2.056967e-01  
## [4994,] 0.6162751190 1.542533e+00 1.363377e-01 -1.4979028474 2.844541e-01  
## [4995,] -0.6323359365 7.817948e-01 -5.423175e-01 -0.0298114141 1.164707e+00  
## [4996,] 1.1704594554 -1.835627e+00 7.938765e-01 -1.2882149870 6.265717e-01  
## [4997,] 0.0518370329 1.864456e+00 2.084581e+00 1.6396439489 1.908734e+00  
## [4998,] 1.0416163759 -2.426316e-01 5.015812e-01 0.3193569975 -5.541499e-01  
## [4999,] 1.6819457366 -5.207411e+00 7.474870e-01 -0.6128221472 1.452024e-01  
## [5000,] -3.3503754314 1.158420e+00 8.027354e-01 0.4692566515 1.351308e+00  
## [5001,] 1.2870613183 -2.045697e+00 1.245614e+00 1.0924257623 -2.963834e-01  
## [5002,] 0.9936704071 -9.003808e-01 9.576750e-01 -0.0299908160 -1.768188e-01  
## [5003,] 0.0895119148 1.753115e+00 1.974587e+00 1.6355204409 1.809482e+00  
## [5004,] 1.0151230266 -8.748533e-01 1.099061e-01 -1.0918222751 -3.406049e-02  
## [5005,] 0.4173826051 9.681800e-01 1.477184e+00 0.9335181736 5.050775e-01  
## [5006,] 0.4860776082 1.023643e+00 -2.271232e+00 -0.7793970261 8.148421e-01  
## [5007,] 0.5147216777 1.882575e+00 -5.643220e-01 -0.5324115739 6.881413e-01  
## [5008,] -0.1224912349 -9.094979e-02 -3.198845e+00 1.3784079143 3.841476e+00  
## [5009,] 0.9989352554 -5.955881e-01 3.375648e-02 -1.1640315496 -2.098489e-01  
## [5010,] 0.9176498912 -1.637111e+00 5.075523e-01 -0.3508881527 4.984840e-01  
## [5011,] 0.0961432069 1.766469e+00 2.023137e+00 1.7921644963 1.786307e+00  
## [5012,] -0.3091868843 -7.560503e-01 1.005765e-01 1.9991498576 -1.540936e+00  
## [5013,] 0.2478131490 2.362091e-01 1.341227e+00 0.3542435053 1.537399e+00  
## [5014,] 0.3416363347 -8.207389e-01 -3.030495e+00 1.0521446022 3.102891e-01  
## [5015,] 1.2561103498 -2.469952e+00 6.383544e-01 -0.9136993312 3.217170e-03  
## [5016,] 0.9281869201 -2.334979e-01 7.629363e-02 0.5531705035 -5.314799e-01  
## [5017,] 0.8126931917 -1.417185e+00 -3.624673e-01 -0.8351643551 -9.793638e-02  
## [5018,] 0.8059056271 -7.907162e-01 -5.206547e-01 -1.2037878336 -1.386310e-01  
## [5019,] 1.2493221910 -2.332546e+00 7.851560e-01 -0.8087896819 3.508710e-01  
## [5020,] 1.0556888128 -1.106044e+00 -2.822628e-01 -1.2121887185 -3.809794e-01  
## [5021,] -0.3270746069 -7.511363e-01 1.433470e-01 1.9412841598 -1.476478e+00  
## [5022,] 1.1013548017 -1.726324e+00 5.708973e-01 -0.9827931009 3.563359e-01  
## [5023,] 1.1271097024 -1.696737e+00 1.034371e+00 -0.2160759950 4.198186e-02  
## [5024,] 1.3356551298 -2.443593e+00 6.951202e-01 -0.3363598714 -9.609074e-02  
## [5025,] 0.5601734038 8.092883e-01 -8.464008e-01 -0.8204693400 2.477053e-01  
## [5026,] 1.2424277965 -2.367494e+00 6.438815e-01 -0.9308005699 2.334154e-02  
## [5027,] 1.0897026512 -9.733323e-01 5.806978e-01 0.6956544609 -6.211986e-01  
## [5028,] 0.2645847892 1.684546e-01 1.256578e+00 0.2417432277 1.499196e+00  
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## [5030,] 1.0752228683 5.254723e-01 7.834793e-01 2.6928390459 -1.103507e+00  
## [5031,] 1.4279288990 -3.709830e+00 8.545864e-01 -0.8829355842 3.470500e-01  
## [5032,] 1.0969946318 -1.716050e+00 8.612534e-01 -0.7573387880 3.492236e-01  
## [5033,] 0.6966968227 1.915311e+00 9.703335e-01 1.0925356627 -1.074027e-01  
## [5034,] 1.3246043752 -2.783341e+00 1.185983e+00 0.4875597148 -1.499015e-01  
## [5035,] 1.1597434841 -1.638857e+00 9.240116e-01 -0.5110958503 4.029777e-01  
## [5036,] 1.3708729588 -2.537984e+00 6.515093e-01 -0.3760496164 -1.017605e-01  
## [5037,] 1.1687031427 -6.628043e-01 1.161148e+00 0.7095230325 3.973369e-02  
## [5038,] 1.3036277629 -2.791068e+00 1.101746e+00 0.2141120569 -1.315383e-01  
## [5039,] 1.1273435114 -1.605061e+00 1.140005e+00 -0.5212896331 4.035717e-01  
## [5040,] 0.0716677999 8.289305e-02 -1.008723e+00 -0.4862171398 1.352590e+00  
## [5041,] 1.0784689873 -1.652767e+00 6.627115e-01 -0.8429141248 3.757109e-01  
## [5042,] 0.8668562592 6.460715e-01 5.889428e-01 0.6269432711 -4.108849e-01  
## [5043,] 0.7856485652 9.376904e-01 -4.940957e-01 -1.0040872875 9.719612e-02  
## [5044,] 1.2951343189 -2.468344e+00 6.917163e-01 -0.9278506990 3.431645e-01  
## [5045,] -1.6381899390 -6.812169e+00 -6.209213e-01 2.5417863399 -1.097399e+00  
## [5046,] 1.5877678050 -2.942122e+00 -5.001956e-01 -1.5309296356 -5.005617e-01  
## [5047,] 0.9226940272 8.123138e-01 -3.114043e-01 -1.7748262759 -4.295863e-01  
## [5048,] 0.9846417244 -8.210931e-01 9.597465e-01 -0.0282150922 -1.641227e-01  
## [5049,] -3.1743609208 1.329522e+00 1.171969e+00 -0.0366744877 1.348238e+00  
## [5050,] 1.0981548587 -9.353767e-01 4.831705e-01 0.6232577285 -6.763174e-01  
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## [5052,] -1.7262453930 -3.118359e+00 -8.299098e-01 -0.0059129775 -1.232415e+00  
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## [5055,] 0.8944915705 5.486344e-01 4.709951e-01 -0.3054062709 -2.737467e-01  
## [5056,] 0.8105210558 -1.501782e+00 -5.770745e-01 -0.9699833753 -5.618704e-02  
## [5057,] 0.5624171911 3.869825e-01 -3.748084e-01 -0.6050819609 2.511308e-02  
## [5058,] -1.7265697499 -3.082219e+00 -5.568246e-01 0.1915952862 -1.243953e+00  
## [5059,] 0.9367807623 3.739735e-02 6.659720e-01 -0.3359148314 -7.756504e-02  
## [5060,] -0.3478697821 -6.947890e-01 -3.034032e-02 1.8806416875 -1.433488e+00  
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## [5062,] 1.0642236051 -1.036775e+00 9.039149e-01 0.8340919584 -5.745309e-01  
## [5063,] 0.9808104459 -5.991799e-01 -1.383831e-01 -1.3010584422 -1.152539e-01  
## [5064,] 0.8765487195 4.882395e-01 1.114137e-01 -0.7762741450 -2.437055e-01  
## [5065,] 0.1994961852 1.685673e+00 -2.461846e-01 0.6906687202 -4.514411e-02  
## [5066,] 1.3411322427 -2.760323e+00 1.057343e+00 0.4014829436 -2.305247e-01  
## [5067,] 0.6866245344 6.772298e-01 -1.145239e+00 -0.9284326240 6.704545e-01  
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## [5070,] 1.0175858462 1.052065e-01 7.742968e-01 1.2663078894 -7.205750e-01  
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## [5073,] 0.7188398846 2.215210e-01 2.758340e-01 2.0250551580 -2.342365e-01  
## [5074,] 1.0881229140 4.633303e-01 7.544161e-01 2.6686220468 -1.115029e+00  
## [5075,] 0.0821301869 1.817524e+00 2.013296e+00 1.6283657948 1.868723e+00  
## [5076,] -3.1585272728 1.289130e+00 1.194203e+00 0.0483477184 1.340143e+00  
## [5077,] 0.5182717700 1.345171e-01 -1.319447e+00 0.1730403281 6.496181e-01  
## [5078,] 1.4803468538 -2.736453e+00 1.421458e+00 1.5091210553 2.223799e-01  
## [5079,] 0.5596402733 7.266861e-01 -1.041698e+00 -1.0075205585 3.430715e-01  
## [5080,] -0.3819343440 8.131136e-01 7.554825e-02 0.0107570279 9.892926e-01  
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## [5085,] -0.5405434499 9.602679e-01 -2.179928e-01 0.3803932498 1.072015e+00  
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## [5091,] 1.0350476305 -1.219991e+00 1.634534e-01 -0.0741471642 -1.826485e-01  
## [5092,] 0.8080508382 -1.478884e+00 -5.819548e-01 -0.9560911224 -6.186712e-02  
## [5093,] -0.2292564436 -1.877498e-01 -3.933116e+00 -0.6501152740 2.940060e-01  
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## [5095,] 0.4595602643 2.502821e-01 -1.935117e-01 1.8050287260 6.007696e-03  
## [5096,] 0.9487006048 1.013830e-01 6.429757e-01 -0.1807095071 -1.662139e-01  
## [5097,] 1.0257928896 -6.168657e-01 -1.580007e-02 -1.1210894958 -2.529394e-01  
## [5098,] -0.4630497057 -7.106585e-01 -2.253026e-01 2.2862957548 -1.464275e+00  
## [5099,] 0.9883574430 -9.724385e-01 1.808037e-01 -0.0796421086 -1.511925e-01  
## [5100,] 0.8021884323 4.518823e-01 8.117450e-01 1.5016695125 -1.716881e-01  
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## [5104,] 0.7554486927 8.913918e-01 -6.946263e-01 -1.2650707044 1.979551e-01  
## [5105,] 0.0803773503 1.705661e+00 1.038212e+00 0.6207738593 1.735752e+00  
## [5106,] 1.1313050724 -2.017801e+00 1.012835e+00 0.0126620421 5.624746e-01  
## [5107,] -3.1301775581 1.159349e+00 1.241270e+00 0.2325237498 1.300741e+00  
## [5108,] 1.3340625354 -2.822914e+00 1.075599e+00 0.3503053490 -1.921432e-01  
## [5109,] 0.2735577167 2.215009e-01 1.385094e+00 0.5936750721 1.496317e+00  
## [5110,] 1.3675542357 -2.481854e+00 5.922238e-01 -0.3726150277 -1.542150e-01  
## [5111,] 1.1460733101 -6.636831e-01 1.222087e+00 0.6185199914 1.370193e-01  
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## [5113,] -3.3453859209 1.161359e+00 7.711585e-01 0.3654741358 1.401111e+00  
## [5114,] 0.0250588351 1.292037e-01 8.321027e-01 0.2225848822 1.695991e+00  
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## [5121,] 0.8386136041 -2.011475e-01 -6.980782e-01 -0.3981490116 -3.425583e-01  
## [5122,] 1.1687667992 -6.636434e-01 1.202790e+00 0.6479752799 1.368505e-01  
## [5123,] 1.2649785461 -2.373183e+00 9.575534e-01 -0.8171372303 3.590496e-01  
## [5124,] 0.8178333222 -1.644170e+00 -8.400448e-01 -0.8049349461 1.334720e+00  
## [5125,] -0.7007292172 -8.739177e-01 9.767418e-01 -0.9142196181 1.687855e+00  
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## [5127,] -3.3737282349 1.175649e+00 7.828530e-01 0.1680458732 1.478971e+00  
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## [5147,] 1.0433942701 -1.216493e+00 1.989355e-01 -1.1657564655 3.828655e-01  
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## [5158,] 0.8706576207 1.663799e-01 9.742052e-01 -0.3365022131 2.545665e-01  
## [5159,] 0.8103151141 2.729196e-01 1.107528e-01 -1.1100804023 7.103426e-04  
## [5160,] 1.3451861870 -2.813149e+00 1.130274e+00 0.4639837022 -1.563512e-01  
## [5161,] 0.2043968133 9.836034e-02 -2.244940e+00 1.5282969042 -3.967461e-01  
## [5162,] -0.1456443209 -5.210363e-01 -4.051619e+00 4.3147558711 3.545470e+00  
## [5163,] 1.1203367658 -1.326018e+00 9.025869e-01 0.9513124517 -6.370941e-01  
## [5164,] 0.9904903635 -8.931630e-01 7.226235e-01 -0.2359061275 -9.153377e-02  
## [5165,] -3.3458386604 1.156269e+00 8.296599e-01 0.4045326168 1.446344e+00  
## [5166,] -1.7034274248 -3.251192e+00 -7.619400e-01 -0.0174431893 -1.138341e+00  
## [5167,] 1.1740530510 -2.058655e+00 5.531219e-01 -1.3703076998 5.684625e-01  
## [5168,] 0.7774498993 9.289412e-01 -5.039681e-01 -1.0366667792 1.089628e-01  
## [5169,] 1.0727434102 -7.764424e-01 7.704794e-01 0.8730778870 -6.801655e-01  
## [5170,] 1.1395062605 -1.561749e+00 1.058593e+00 -0.0012028259 2.454671e-02  
## [5171,] 1.0312357709 -1.329170e+00 1.424146e-01 -0.7145922324 -2.226513e-01  
## [5172,] 0.7075017286 1.842483e+00 1.000103e+00 1.1125378954 -8.225714e-02  
## [5173,] 0.6697090932 3.668889e-01 1.770589e-01 -0.1089179359 2.115012e-01  
## [5174,] 1.1160478998 -1.739937e+00 8.675166e-01 -0.6706864167 3.470162e-01  
## [5175,] 1.3159077971 -2.690488e+00 1.052759e+00 0.3145211419 -1.813440e-01  
## [5176,] 1.4424010755 -3.652160e+00 1.028327e+00 -0.7094190991 2.711224e-01  
## [5177,] 0.6813592599 3.454649e-01 8.690950e-02 -0.8327345811 6.177751e-02  
## [5178,] 1.0850884887 -9.482416e-01 5.982323e-01 0.6804996078 -5.642358e-01  
## [5179,] 1.2557729435 -2.341591e+00 7.655444e-01 -0.7950135631 3.511106e-01  
## [5180,] 1.0529027431 -8.468146e-01 5.889712e-01 0.6559929739 -5.950902e-01  
## [5181,] 1.0161634875 -5.731950e-01 -1.736974e-02 -1.0688829094 -2.707526e-01  
## [5182,] 0.1301712116 -1.350854e-01 -3.186051e+00 -1.2054691072 1.864033e-01  
## [5183,] 1.1578221378 -1.901059e+00 7.649940e-01 -1.6591052710 7.941438e-01  
## [5184,] 1.2173248347 -2.506630e+00 2.774240e-01 -0.1843515221 -3.052045e-02  
## [5185,] 0.8165771487 3.489558e-01 6.597268e-02 -1.1893243763 2.476807e-02  
## [5186,] 1.0805126651 -1.253630e+00 3.218191e-01 -1.0745981597 3.003199e-01  
## [5187,] 0.9273358874 -2.002512e+00 2.169678e-01 -1.0763018552 6.976535e-01  
## [5188,] 0.0205530470 1.745992e-01 -1.184636e+00 -0.7881795871 1.522763e+00  
## [5189,] 0.8444848354 -1.887477e-01 -4.629374e-01 -0.2982339436 -3.227632e-01  
## [5190,] 0.9681712575 -2.887458e-01 -3.552278e-01 -0.8339615301 -3.376516e-01  
## [5191,] 1.2811163205 -2.367085e+00 9.409168e-01 -0.7620261843 3.369159e-01  
## [5192,] -0.4373137870 -8.720274e-01 -3.449832e-01 2.3408737120 -1.391227e+00  
## [5193,] 0.8498866945 -4.206136e-01 4.257946e-02 0.3759743479 -4.071447e-01  
## [5194,] 1.0169249260 -5.626810e-01 8.823485e-02 -0.9883248671 -1.651811e-01  
## [5195,] -2.1718812680 -1.124018e+00 -3.907773e+00 -1.8846313193 3.075895e-01  
## [5196,] 0.5887200356 -1.599703e+00 -3.004503e+00 0.9150911414 4.717486e-01  
## [5197,] -0.0684985727 2.371214e-01 -4.016633e+00 1.2518129330 4.760823e-01  
## [5198,] 0.8102924449 -1.477605e+00 -5.317569e-01 -0.9078069788 -1.935899e-02  
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## [5204,] 0.7778221292 -1.559374e-01 -1.249030e+00 0.0667281152 3.275966e-01  
## [5205,] 0.2067464856 -1.750038e+00 -3.397356e+00 1.6729626994 -1.640006e-01  
## [5206,] 1.0781083946 -1.254655e+00 3.929517e-01 -1.0352129299 3.558261e-01  
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## [5210,] 0.9320378554 -2.064909e-01 1.320688e-01 0.6635824947 -4.824212e-01  
## [5211,] 0.5920244317 6.916282e-01 -1.100522e+00 -0.9295744446 2.962503e-01  
## [5212,] 0.9519331623 -2.577937e-01 -2.844532e-01 -0.7757926555 -2.912634e-01  
## [5213,] 1.0980845099 -1.347009e+00 3.504206e-01 -1.1191043411 3.624134e-01  
## [5214,] 1.1844034069 -1.222510e+00 1.703966e+00 1.0259393501 4.395835e-01  
## [5215,] 0.8825027072 5.858412e-01 4.480930e-01 0.7057551308 -3.572886e-01  
## [5216,] 1.4494296603 -3.748772e+00 1.085943e+00 -0.5855127791 2.659423e-01  
## [5217,] 0.2427221927 2.589343e-01 1.429257e+00 0.4770158694 1.598449e+00  
## [5218,] 1.1739352343 -1.904743e+00 1.025959e+00 -1.2924190167 6.938615e-01  
## [5219,] 1.1017485496 -1.005404e+00 6.237672e-01 -0.4172835995 -8.869975e-02  
## [5220,] 0.8304030102 4.225256e-01 8.084643e-01 1.7038020015 -2.402969e-01  
## [5221,] 1.2155549065 -2.028613e+00 7.479931e-01 -1.2921788308 6.152593e-01  
## [5222,] 1.0420039347 -6.285122e-01 -4.756136e-01 -0.9333638270 -3.504499e-01  
## [5223,] 1.0182403141 -5.766977e-01 3.042011e-02 -1.0302236033 -2.146765e-01  
## [5224,] 0.0963759785 1.747951e+00 1.018562e+00 0.7384328890 1.707029e+00  
## [5225,] 1.0799996751 -1.663305e+00 9.282181e-01 -0.7337101323 4.263828e-01  
## [5226,] 1.0007351867 -6.606980e-01 -2.770587e-01 -0.2035280552 9.794211e-01  
## [5227,] 1.0009419092 -6.374419e-01 -2.004713e-01 -1.3228131317 -1.407706e-01  
## [5228,] 1.0938526488 -8.810976e-01 5.343655e-01 0.7077132545 -6.193180e-01  
## [5229,] -3.2794335680 -3.328507e+00 -4.986321e-01 -0.9329289499 -1.109704e+00  
## [5230,] -3.3102758512 -3.362680e+00 -3.682436e-01 -1.0460377483 -9.401226e-01  
## [5231,] 1.5276324902 -2.862878e+00 1.858752e+00 1.8352121840 1.509187e-01  
## [5232,] 0.6806315289 -8.851082e-01 1.085926e+00 2.2635652876 2.843376e-01  
## [5233,] 1.0392906475 -9.642041e-01 3.156477e-01 -1.0714312087 1.439774e-02  
## [5234,] 0.9535700593 4.442364e-02 6.761966e-01 -0.2563822778 -5.988703e-02  
## [5235,] 0.8903378238 5.333306e-01 4.249049e-01 0.5456960048 -3.014191e-01  
## [5236,] 1.1753107594 -1.961267e+00 7.310757e-01 -1.7012882385 7.937138e-01  
## [5237,] 1.4621352925 -3.349062e+00 5.110466e-01 -1.5367610008 7.955289e-01  
## [5238,] 1.5665383289 -4.028876e+00 7.132036e-01 -1.0097784972 2.742206e-01  
## [5239,] 1.1878116041 -1.236923e+00 1.656010e+00 0.9648050602 4.101373e-01  
## [5240,] 1.3088851144 -2.122133e+00 1.031693e+00 1.0629351091 -2.428423e-01  
## [5241,] 0.8035483920 5.068461e-01 9.085635e-01 1.7738934949 -1.678786e-01  
## [5242,] 1.4491346375 -3.744593e+00 8.871582e-01 -0.7391932418 3.520356e-01  
## [5243,] 0.5594367100 7.446229e-01 -1.095566e+00 -1.0115028600 2.990089e-01  
## [5244,] 1.5658261843 -4.022537e+00 4.319475e-01 -1.1609970644 2.679356e-01  
## [5245,] 1.0308740358 5.147613e-02 8.050488e-01 1.2125827669 -6.212797e-01  
## [5246,] -2.0148909290 -1.635649e+00 -3.054945e+00 -2.4652677522 -3.816229e-01  
## [5247,] 1.1533016080 -1.160565e+00 5.586150e-01 -0.2793572645 -2.209056e-01  
## [5248,] -3.3189507492 1.108826e+00 7.923252e-01 0.4201297549 1.433184e+00  
## [5249,] 1.1155946461 -1.909839e+00 -1.206882e-01 -0.4098543860 -2.436097e-01  
## [5250,] 1.2424379475 -1.922117e+00 7.499719e-01 1.4949871375 -1.105164e+00  
## [5251,] 0.8001880195 6.982198e-01 -6.462419e-01 -1.1088007551 1.980009e-01  
## [5252,] 1.1174073533 -1.030212e+00 5.867888e-01 -0.3814861321 -1.245517e-01  
## [5253,] -3.2667109463 -3.485779e+00 -4.577107e-01 -1.0233313604 -1.029401e+00  
## [5254,] 0.6421125211 1.538488e+00 4.203796e-01 -1.2849850948 3.400567e-01  
## [5255,] 1.0893938370 4.443987e-01 1.038984e+00 2.7808078771 -1.041269e+00  
## [5256,] 1.0246247812 -1.068359e+00 1.065649e-01 -0.1709835869 -1.492788e-01  
## [5257,] 1.0072782921 -8.198936e-01 4.066646e-01 -0.9711659359 5.838651e-02  
## [5258,] 1.1517125270 -1.987364e+00 3.326383e-01 -1.6096192986 6.822523e-01  
## [5259,] 1.0788502252 5.444852e-01 1.073176e+00 2.9332766923 -1.076361e+00  
## [5260,] 0.5430977973 7.810975e-01 -1.089663e+00 -1.1937052670 4.022823e-01  
## [5261,] 1.0519418724 -8.632999e-01 9.073165e-01 -0.4593316874 4.512473e-01  
## [5262,] 0.7084324027 1.381505e+00 3.814448e-01 -1.1262795754 2.567988e-01  
## [5263,] 1.0338414302 -1.862071e+00 5.918642e-01 1.6139986277 5.580553e-02  
## PC6 PC7 PC8 PC9 PC10  
## [1,] -0.9929702400 0.5026395766 6.715742e-01 3.453284e-01 -1.0481757576  
## [2,] -1.4662429230 -0.6533268780 6.613880e-01 7.800966e-02 -1.7168938590  
## [3,] -0.8508115372 -0.0902530102 1.017749e+00 5.184164e-01 -0.5542043484  
## [4,] -3.6375764477 0.7690174314 2.722716e+00 -1.369846e+00 3.1765441061  
## [5,] -1.8142862682 -0.5981151908 6.587597e-01 3.021448e-01 -1.3038555716  
## [6,] -0.2802111955 0.1521632875 1.810668e-01 -5.047840e-01 -0.0450724369  
## [7,] -0.2641229848 -1.0760086990 -4.149818e-01 2.915522e-01 -1.3333078663  
## [8,] -0.4737401236 0.1253129905 1.380167e-01 -8.699160e-01 -0.3559489125  
## [9,] -0.9315781791 -0.7610469244 1.052791e+00 6.106593e-01 -0.9959790887  
## [10,] -0.6325414967 -0.3664345087 7.013757e-01 7.240958e-01 -1.7846432986  
## [11,] -5.1126612430 3.1529821557 1.015642e+00 -2.150522e+00 3.3347620237  
## [12,] -0.8661274484 0.3399539983 6.911573e-01 2.927498e-01 -1.2294824253  
## [13,] -0.9247714969 -0.1950780617 8.372237e-01 8.869947e-01 -0.2824749369  
## [14,] -1.4396887855 -0.8209614649 1.070855e+00 5.082408e-01 -0.6981369436  
## [15,] -1.4671884570 -0.3961062868 7.177049e-01 2.102752e-01 -1.4551674788  
## [16,] 0.2836330414 -1.0036880476 2.974036e+00 7.125480e-01 -0.9271868886  
## [17,] -0.7936203264 -1.7854448943 -3.512511e-01 1.523093e-01 -2.5534638091  
## [18,] -5.5206557321 2.2707785865 -2.169955e+00 -1.083771e+00 4.7379905489  
## [19,] -1.0664427883 0.0025642485 6.794445e-01 2.934369e-01 -0.7835140501  
## [20,] -1.3254137770 -1.0082335783 -3.252147e-01 -2.549842e-01 -0.2905041992  
## [21,] -1.0660930914 -0.4303738030 8.112618e-01 4.226097e-01 -0.9313298158  
## [22,] -2.2029266382 1.0941687235 1.191385e+00 1.372901e+00 -0.8588324046  
## [23,] -0.7131146565 0.6766508341 6.456560e-01 6.981571e-01 -0.6186644473  
## [24,] -3.2096766636 1.0255895919 -1.403744e-01 -3.409446e+00 2.1226543960  
## [25,] 0.9727000916 -0.5421586161 1.830237e+00 1.350416e+00 -1.3110244550  
## [26,] -0.1892920769 0.2364430066 2.626963e-01 -5.395507e-01 0.0759296614  
## [27,] -1.3274882186 -0.8815936804 -4.850665e-01 -1.554544e-01 -0.2991237937  
## [28,] -0.6175302531 0.9004365817 8.695411e-01 5.077281e-01 -0.8155823511  
## [29,] -0.5726205676 -0.6407005075 8.757816e-01 4.195599e-01 -1.2771785713  
## [30,] 0.2304062237 -0.6400108456 2.779148e+00 5.172318e-01 -0.7736510627  
## [31,] -1.2675618876 -0.3752522701 1.218526e+00 7.186925e-01 -0.8932007137  
## [32,] 0.3326879744 -1.9184066463 -9.448727e-01 -5.410548e-02 -4.4013423998  
## [33,] 0.6213276865 0.4602920698 -7.232109e-01 7.365005e-01 -0.8950023821  
## [34,] -0.7722971548 -0.3942741419 6.089879e-01 1.280776e+00 -0.3823079124  
## [35,] -1.3457496408 -1.1185108684 -4.147317e-01 -1.604160e-01 -0.2014420009  
## [36,] -1.3582020309 -1.0521176544 -4.340212e-01 -1.299104e-01 -0.2429914220  
## [37,] 0.9868061099 0.3901325403 -9.728308e-01 -6.709153e-02 0.0446202972  
## [38,] 0.6707783647 -0.6717059291 2.053060e+00 4.872149e-01 1.5541270886  
## [39,] -1.3016658067 -0.9914550948 -3.092880e-01 -2.975280e-01 -0.2924636152  
## [40,] -0.1606688243 0.9745821488 4.381768e-01 1.423956e+00 0.0272797737  
## [41,] -0.7302734936 -1.3824599347 6.173435e-01 3.563072e-01 -1.8323785091  
## [42,] -0.7113940277 -1.1149627847 3.330931e-01 5.053622e-01 -1.8415323942  
## [43,] -1.9464291576 -0.5313048260 7.048867e-01 6.459606e-01 -1.3185977429  
## [44,] -1.0349555319 -0.5445624878 1.200293e+00 3.487212e-01 -0.5988738639  
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## [46,] -0.6238635689 -1.6261263105 1.008387e+00 7.495005e-01 -1.0202325081  
## [47,] -0.0502764381 0.4861552536 1.079873e+00 2.342547e+00 0.2658586092  
## [48,] -1.2673987012 -0.1764825919 4.325923e-01 -3.045486e-01 -1.8736394329  
## [49,] -0.4533054884 -1.0103154157 3.041895e-01 7.864060e-02 -1.2838448116  
## [50,] -0.9240852169 0.6960938121 1.014030e+00 4.966195e-01 -1.1121838818  
## [51,] -0.9894788454 -0.4004374047 1.021985e+00 6.240364e-01 -0.4851665208  
## [52,] -0.7245282132 0.3088845512 2.521811e+00 1.486800e+00 -1.1655450591  
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## [55,] 0.9550383939 -1.0384209079 2.371108e+00 1.632319e-02 0.2974227058  
## [56,] -0.7631009742 -0.1187500360 8.381850e-01 1.297203e+00 -0.0706420535  
## [57,] -0.3739566100 -0.5465972442 1.140993e+00 -4.989117e-01 -0.0115868828  
## [58,] -3.7835176568 -0.1325335702 -3.582921e+00 -2.173476e+00 3.6155825903  
## [59,] -1.3840024865 -0.8668644251 5.994006e-01 7.558903e-01 -0.9011569908  
## [60,] -1.0794319225 -2.1423235189 -7.668972e-02 -5.335557e-01 -1.6736857390  
## [61,] -1.2184185838 -0.6511314110 9.600600e-01 2.020920e-01 -1.1738030082  
## [62,] -0.9677189534 0.1857225263 9.862110e-01 2.563158e-01 -0.9413739087  
## [63,] -1.0969109553 -0.0568256908 8.018527e-01 -2.935123e-02 -1.0022914455  
## [64,] -2.4567793070 1.9293901731 8.851219e-01 8.096420e-01 -0.8295270555  
## [65,] -0.9995554531 0.2956952475 4.899379e-01 5.565725e-01 -0.8777487820  
## [66,] -1.2248851183 -0.4979170854 1.091145e+00 1.047910e+00 -0.4919450997  
## [67,] 0.3952354128 -1.2072970794 1.081167e-01 -1.074153e+00 -0.3836027630  
## [68,] -1.2780608451 -0.7072033165 -5.618523e-01 -1.751679e-01 -0.3465708627  
## [69,] -0.9065022042 -0.6256095062 4.779348e-02 -2.908985e-01 -2.3692584206  
## [70,] -0.8078713125 0.0134650746 -8.252016e-01 6.137437e-01 0.0961219111  
## [71,] -0.4679603987 -0.3641223830 -4.714913e-01 1.448510e-01 0.4278240699  
## [72,] -0.5731455452 -2.0381470096 6.296001e-01 4.464948e-01 -1.7397862651  
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## [2037,] -0.0264240615 -0.1271491862 9.643570e-01 -5.158637e-01 0.2086411054  
## [2038,] -0.9096857836 -0.3044887435 6.039308e-01 5.084376e-02 -1.6477187928  
## [2039,] -0.4681315954 0.0267015749 7.502553e-01 7.350877e-01 -0.4711575425  
## [2040,] -0.2381708042 0.3738599540 9.239212e-01 1.324984e+00 0.0422822666  
## [2041,] -0.5057752025 -0.3170090643 1.455775e+00 5.736858e-01 -0.2464565940  
## [2042,] 0.3573196493 -0.7744834214 2.863406e+00 8.227357e-01 -0.5830169102  
## [2043,] -0.7610525823 0.2059753430 9.870005e-01 8.489410e-01 -0.6986253939  
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## [3818,] -1.0842371809 -0.1939472734 4.117674e-01 -1.100145e-01 -1.3996166461  
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## [5223,] 0.2653978848 0.2936351068 5.070114e-02 -8.232368e-01 0.2722339966  
## [5224,] 1.2402175905 1.2150810512 -1.073874e+00 1.739508e-01 -0.5328426082  
## [5225,] -0.2755415701 -0.6240463175 -9.331855e-02 1.723386e-01 0.4524747843  
## [5226,] -0.7252076336 0.9107316044 2.455145e-01 3.678414e-01 -1.2064781662  
## [5227,] 0.4412907346 0.3486170145 4.576998e-02 -4.857517e-01 0.5526438213  
## [5228,] 0.6948734733 0.4032387980 6.887132e-01 -2.075578e-01 0.6710025393  
## [5229,] 0.7629739537 -1.1372401230 -2.068324e+00 -1.254733e+00 -0.1666014006  
## [5230,] 0.5471833864 -1.3719241055 -2.366248e+00 -1.036650e+00 -0.1267509279  
## [5231,] -0.1324573582 1.2184026163 1.738829e-01 -9.626403e-02 -0.7723898632  
## [5232,] -0.7734531290 -0.6795247463 -2.337779e+00 1.640959e+00 0.2309715515  
## [5233,] 0.2994173865 -0.1568116142 5.919326e-01 -6.628777e-01 0.4098582277  
## [5234,] 0.1419589128 0.5522986888 -6.691046e-02 -1.020877e+00 -0.1864537576  
## [5235,] 0.7729092927 1.4300738329 -3.441514e-01 -9.074755e-02 0.3688242176  
## [5236,] -0.3289689258 -0.2429510043 1.327012e-01 -5.580622e-01 -0.1931114833  
## [5237,] -0.4252532973 0.5452838480 -3.222903e-01 -2.127327e-01 -0.4891022794  
## [5238,] -0.7619663189 -0.4064289727 8.269397e-02 -5.861693e-01 -0.3989948354  
## [5239,] -0.6016956549 1.0134804341 -1.291777e+00 -2.795997e-02 -0.7157566560  
## [5240,] 0.2221319952 0.5691875596 2.190490e-01 2.088059e-01 0.2534889780  
## [5241,] 0.0002621651 1.1131917347 -1.241945e+00 -3.405447e-01 -0.5709859599  
## [5242,] -0.2875853030 -0.7969958520 7.368870e-01 1.144474e-01 0.3436876922  
## [5243,] 1.7158869693 2.0041281243 -1.072512e+00 8.400187e-01 1.0291674332  
## [5244,] -0.5344838112 -0.0896278609 1.548296e-02 -3.346249e-01 -0.2239651745  
## [5245,] 0.5474997690 1.1569948237 1.361805e-01 -7.770613e-01 -0.0402531968  
## [5246,] 3.4728943473 2.0580144234 -1.412926e+00 1.229101e+00 1.7888047708  
## [5247,] 0.1542234940 0.2733893384 4.359226e-01 -9.945700e-01 -0.0652035199  
## [5248,] 1.3539828842 -0.6433882277 -2.760541e+00 -3.369694e-01 -0.7759964711  
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## [5250,] 0.6634810324 -0.4380336642 1.391632e+00 -5.924163e-02 1.0905874770  
## [5251,] 1.4125951437 2.1988335788 -6.812990e-01 7.828853e-01 0.9837552157  
## [5252,] -0.0126635319 0.2529259696 6.483910e-02 -9.066984e-01 -0.1106561153  
## [5253,] 0.6815434988 -1.2463825003 -2.120012e+00 -1.196719e+00 -0.1643448727  
## [5254,] 0.3780954526 0.4904397970 -2.320621e-01 -9.776119e-01 0.0984631203  
## [5255,] 1.0892543083 2.2796810185 4.196217e-01 -8.059659e-01 -0.2561417959  
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## [5263,] -0.2866019004 0.1951606860 -6.404341e-01 -2.979146e-01 -0.8474559828  
## PC11 PC12 PC13 PC14 PC15  
## [1,] -0.4566717301 5.220010e-01 4.556279e-01 0.3013484620 6.230414e-01  
## [2,] -0.1700520187 -4.121260e-01 -3.379518e-02 -0.1174615761 4.409574e-01  
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## [4,] -1.5372892917 6.069701e-01 -6.394276e-01 0.9629769465 2.207945e-01  
## [5,] -0.4042678877 6.326919e-01 4.380239e-01 0.3718485039 6.003907e-01  
## [6,] -0.6299296876 2.568295e-01 -5.725969e-01 -0.4377678043 3.272833e-01  
## [7,] 1.0088686061 1.737848e+00 -6.198344e-01 -0.4435233554 -3.276290e-01  
## [8,] -0.5499081043 4.345089e-01 -6.268204e-01 -0.2573596382 2.465808e-01  
## [9,] 0.0773879805 -7.081105e-01 6.408308e-01 -0.8840669541 5.579412e-01  
## [10,] -2.4531779470 7.692461e-01 2.431720e-01 0.8089745667 -1.230214e+00  
## [11,] -0.8512147260 9.659102e-01 3.706880e-01 0.0670521984 4.363485e-01  
## [12,] -0.2957167676 -2.237482e-02 3.175750e-01 -0.0746022916 5.769050e-01  
## [13,] -0.2398721766 8.650768e-02 5.254574e-01 1.0855116014 1.523091e-01  
## [14,] -0.0714930633 4.687416e-01 8.074352e-01 0.7288419910 1.915339e-01  
## [15,] -0.2775861562 1.500822e-01 2.103092e-01 0.2504066553 4.438747e-01  
## [16,] 0.9475543199 1.347300e-01 -7.013735e-02 -0.2579672079 2.290898e+00  
## [17,] 0.8286546088 -1.006355e+00 -1.757772e+00 -1.1865557972 -1.694835e-01  
## [18,] -0.0182784091 2.964801e-01 -8.487171e-01 0.3792332495 9.069567e-01  
## [19,] -0.1482634839 2.429535e-01 5.447706e-01 0.8256437379 2.808932e-01  
## [20,] -0.4227829340 3.134955e-01 -6.704466e-01 -0.1667953878 4.525470e-01  
## [21,] -0.0458329023 -2.496486e-01 5.433457e-01 0.0237627253 4.131583e-01  
## [22,] 0.8503190568 1.267146e+00 3.815756e-02 -2.0337026260 -4.260121e-01  
## [23,] -0.4858388651 3.067715e-01 1.937976e-01 1.2425478265 2.266522e-01  
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## [26,] -0.6529002084 2.561988e-01 -8.730000e-01 0.5771752734 -1.508328e-01  
## [27,] -0.4060946679 3.337619e-01 -7.207737e-01 -0.0782572563 4.966569e-01  
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## [32,] 1.3337934502 -5.780922e+00 -5.075974e+00 -1.7095933353 -1.080433e+00  
## [33,] 0.8237582885 3.818181e+00 -3.674181e-01 -0.6688419665 -5.001164e-02  
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## [36,] -0.3553153101 2.870329e-01 -6.201246e-01 -0.1799770525 4.943528e-01  
## [37,] 0.2490372289 2.788029e+00 -1.296587e+00 -1.1446404407 -7.703679e-02  
## [38,] -0.8461027087 -5.422180e-02 6.318859e-02 -0.3104818943 -5.283806e-01  
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## [68,] -0.4273353302 3.539346e-01 -7.949006e-01 0.0758178380 4.495196e-01  
## [69,] 0.4157920477 -6.110807e-01 -9.805771e-01 -0.3496581262 -5.151341e-03  
## [70,] -0.2718180783 5.082252e-01 -6.862208e-01 0.4498328375 4.643219e-01  
## [71,] 0.0197409638 -1.018328e-01 -1.774073e-01 -0.3082384833 4.365828e-01  
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## [74,] -0.1318350135 -2.003500e-01 -1.541223e+00 0.5534671394 -8.874328e-01  
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## [83,] -2.0648615382 -1.117975e+00 1.174789e-01 -0.3426343106 -1.049256e+00  
## [84,] -0.5897734587 4.437281e-01 -4.088846e-01 -0.5130063774 9.770085e-02  
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## [93,] -0.9910199209 2.376258e-01 5.598418e-01 -1.5808559904 -2.221760e+00  
## [94,] -0.1336211382 4.915853e-01 7.214862e-01 0.4376879748 4.050503e-01  
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## [96,] 0.1975674663 -3.188168e-01 4.784255e-01 -0.9442594724 1.015594e+00  
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## [98,] -0.8153365706 6.684743e-01 -2.983107e-01 -0.5657983202 2.235427e-01  
## [99,] -0.6644994292 9.956482e-02 -4.735113e-01 -0.9112498001 1.754874e-01  
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## [128,] -0.9015950771 7.430553e-01 2.074025e-01 0.4601235500 9.793589e-01  
## [129,] -0.1473787426 -3.759137e-03 6.448713e-01 0.6607353261 3.498882e-01  
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## [133,] 0.3909981283 -1.658800e+00 -1.369222e+00 0.2417406288 -5.077908e-02  
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## [137,] -0.0744834666 1.000547e-01 -1.939710e-01 -0.3299931561 1.861732e-01  
## [138,] -0.4971166432 3.316646e-01 -3.833968e-01 -0.3098588645 -1.585805e-02  
## [139,] -0.6413223324 2.015899e-01 2.831058e-01 0.4704226051 6.621683e-01  
## [140,] -0.3326599251 1.298408e-01 -2.840772e-01 0.8305259283 -1.072655e+00  
## [141,] 0.1418551301 1.047531e+00 -1.316904e+00 1.4597629803 2.411460e+00  
## [142,] -0.0927583383 -5.953537e-02 -1.455848e+00 -0.7623514141 -2.365333e-01  
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## [145,] -0.4259430752 -1.419013e-01 -1.419341e+00 0.3206565035 -1.291681e+00  
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## [150,] -0.3232204152 4.205650e-01 5.224490e-01 0.2246883714 6.404401e-01  
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## [163,] -0.3352526450 -4.380168e-02 6.439730e-01 0.1669898217 6.497036e-01  
## [164,] 0.1406714592 -5.795302e-01 1.182151e+00 0.5723592279 -2.254119e-01  
## [165,] -1.7372301470 5.613427e-01 4.664132e-01 0.1100426965 -2.437224e+00  
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## [167,] -0.3697637802 2.054884e-01 7.589481e-01 -0.1690143064 7.799281e-01  
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## [664,] -0.3877722524 2.704389e-01 5.410574e-03 0.1852732132 5.982824e-01  
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## [668,] -0.0706651166 1.040117e+00 2.121529e-01 -0.1233768036 2.025841e-01  
## [669,] 0.4572812162 3.902782e-01 8.593937e-01 -0.4397644911 -6.372845e-01  
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## [682,] -0.5383579651 -2.780907e-01 -3.523867e-01 -0.5274312612 2.606274e-01  
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## [685,] 0.3289089258 -5.823122e-01 -4.123264e-01 0.0926244674 -9.887286e-02  
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## [687,] -1.9140012527 1.150474e+00 1.109555e+00 -0.7123844803 -1.228530e+00  
## [688,] 0.0787810885 2.553627e-01 -3.294861e-01 -1.1072339066 -9.988670e-01  
## [689,] -0.1448768421 -1.349784e-01 -2.815807e-02 -0.2072381555 1.940547e-01  
## [690,] -2.0370355803 9.859063e-05 -2.899535e-01 -0.3530903234 -1.514552e+00  
## [691,] -0.2136854657 -5.404226e-01 -1.041732e-01 0.0927081979 8.807613e-02  
## [692,] -0.8803396055 8.202376e-01 3.009478e-01 1.0844727340 1.493937e+00  
## [693,] 0.2780430497 -8.789676e-02 -3.842618e-01 0.6353918346 6.929562e-02  
## [694,] -1.2782588780 8.356676e-01 -8.641553e-01 0.4332216958 7.875524e-03  
## [695,] -0.6787458658 -1.221420e+00 -8.599686e-01 0.2075658306 6.872216e-01  
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## [1014,] -1.0417873719 3.199256e-01 -5.553698e-01 -0.0072131039 3.510455e-02  
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## [1063,] -0.3158930618 5.251492e-01 5.681372e-01 0.0588265228 8.563251e-01  
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## [1105,] -0.1876960339 1.014376e-01 -2.794418e-02 0.3154934683 -4.095675e-01  
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## [1186,] 0.9638250416 1.095823e+00 -1.501428e-01 0.8103132560 -9.196312e-01  
## [1187,] 1.9540533331 2.540285e+00 -1.040297e+00 0.5295518853 1.455827e+00  
## [1188,] -0.9985640683 1.242488e+00 4.151762e-01 0.2519513467 6.785272e-01  
## [1189,] 0.2786918883 3.611373e-01 1.666330e+00 -0.1880417009 2.437774e-01  
## [1190,] -0.4148731152 -3.240517e-02 4.858382e-01 -0.1073765930 9.236510e-01  
## [1191,] -0.3118628069 -3.969581e+00 -2.506074e+00 -1.8942168903 6.053522e-01  
## [1192,] 1.2035646523 1.963649e+00 -2.324965e-01 1.5146110412 -1.322820e+00  
## [1193,] 3.5393655558 4.859181e+00 -1.880420e+00 -2.1162186278 -1.901379e+00  
## [1194,] 0.6799428733 2.022311e+00 2.780619e-01 -0.2833159505 2.033140e-01  
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## [1197,] 0.2769125723 4.507675e-01 -1.048075e+00 -0.6098349877 -3.056697e+00  
## [1198,] -2.5739228558 6.169316e-01 8.924399e-01 -0.5675908914 -7.273785e-01  
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## [1202,] -0.0200301599 2.412913e+00 -1.772957e-01 -0.4568990059 5.759410e-01  
## [1203,] 0.0646100223 3.025745e-01 1.784479e+00 -1.3259600955 8.700065e-01  
## [1204,] -0.4089197469 4.119505e-02 8.552511e-02 -1.9997440132 4.647323e-01  
## [1205,] -0.4442368757 -7.837006e-01 -6.503819e-01 -0.7524710655 2.104349e-01  
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## [1209,] -0.2157010351 -2.192912e-01 -6.480307e-01 -0.4157324964 1.581261e-01  
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## [1214,] -0.9588958424 3.615750e-01 -4.279866e-01 -0.7564441613 3.224869e-01  
## [1215,] -0.2187920030 2.176999e-01 -3.715970e-01 -0.4393733560 2.801938e-01  
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## [1358,] 0.3179321555 -1.099708e+00 -1.184870e+00 -0.8971304221 -4.909723e-01  
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## [1369,] -0.0625664024 3.195581e-02 -3.439708e-01 0.2165025289 -1.331433e-01  
## [1370,] -0.5812612832 4.304478e-01 -3.921592e-01 -0.3464399495 2.978689e-01  
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## [1376,] 0.2564274105 -3.175501e-01 -4.146961e-01 0.5665569630 1.367342e-01  
## [1377,] -0.1514277536 -1.529960e-01 -1.028315e+00 -0.1762734684 5.391310e-01  
## [1378,] -0.1051233454 1.481814e-01 -1.592951e-01 -0.0652798807 -7.926037e-02  
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## [1382,] 0.3880584928 -1.159857e-01 -2.930440e-01 1.3170383396 -4.173026e-01  
## [1383,] 0.1899262083 4.335458e-02 8.996281e-01 0.7830739234 1.377096e-01  
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## [1385,] -0.6132060699 -2.690901e-01 -1.389997e+00 -0.0057598378 -2.495386e-01  
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## [1530,] -0.1837028608 2.365152e-01 -6.305442e-01 1.8655897976 -8.488864e-01  
## [1531,] -0.6904655604 -3.823563e-01 -9.445497e-01 -0.0504840620 -2.364771e-01  
## [1532,] -2.4636373869 -2.433018e-01 1.553287e+00 0.0441276207 2.151650e-01  
## [1533,] 0.0146442619 -1.316521e-01 1.056201e-01 -1.5098555791 8.027171e-01  
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## [1535,] -0.2781754419 -3.487363e-02 1.595188e-01 -2.0176207696 4.956463e-01  
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## [1537,] 0.0703179436 -1.194653e-01 -3.870801e-01 0.1593530648 3.537157e-01  
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## [1541,] -0.5898533733 4.134452e-01 -2.909504e-01 -0.3362469181 1.228516e-01  
## [1542,] -0.4741500611 -6.359230e-02 -3.651672e-01 0.1827431366 -2.045061e-01  
## [1543,] -0.3394442567 1.381470e-03 2.331504e-01 -2.1292400074 4.532087e-01  
## [1544,] 0.1455901281 -1.416576e-01 1.096543e-01 -0.3285750982 2.548208e-01  
## [1545,] -0.4572383367 1.571567e-02 -1.028291e+00 0.4280630129 -3.471165e-01  
## [1546,] -2.4824391104 4.609125e-01 -4.035183e-01 0.0414668125 -1.835064e+00  
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## [1550,] 0.2480476603 -5.038323e-01 -1.594599e-01 -1.6361032108 7.115963e-01  
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## [1621,] -0.4048574233 5.302059e-01 -3.670753e-01 -0.1659994147 1.439849e-01  
## [1622,] -0.6459870791 4.004174e-01 -5.735409e-01 -0.2251352688 3.239967e-01  
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## [1638,] 0.2898560079 -7.617031e-01 -1.982425e-01 -1.6385367042 8.472049e-01  
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## [1702,] 1.5829562023 1.559261e+00 4.424899e-01 -0.8903416300 -1.901317e-02  
## [1703,] -0.2287029866 3.119355e-01 -4.732645e-01 0.7221527581 5.271761e-03  
## [1704,] -0.1512226478 4.968721e-01 -1.522642e-01 0.0294741830 1.086267e-01  
## [1705,] 1.1535805214 -1.042951e+00 -1.805388e+00 -0.2129676807 1.917033e+00  
## [1706,] -0.1012269458 -1.681242e-01 -1.054013e+00 -0.1254119881 5.659839e-01  
## [1707,] -0.0499600400 7.250712e-02 -3.510076e-01 0.4565861256 -1.988090e-01  
## [1708,] 0.0666015607 9.908420e-02 -3.090830e-01 0.9839577572 -4.362626e-01  
## [1709,] -0.8063649903 2.738731e-01 -5.157130e-01 -0.1193755215 -3.673045e-01  
## [1710,] -0.4581529936 2.884447e-02 -1.037709e+00 0.4106632526 -3.349575e-01  
## [1711,] 0.5509914218 2.741469e-01 -1.052424e+00 -0.8719099593 -6.861180e-01  
## [1712,] 0.9358630721 -2.720846e-02 4.316786e-01 0.0734484353 -3.226351e-01  
## [1713,] 0.1833109239 3.038543e-01 1.030723e+00 0.3607186487 3.082366e-01  
## [1714,] -0.3228182780 -1.281673e-01 2.558251e-02 1.6130008101 -2.271282e-01  
## [1715,] -2.5645382093 -6.444911e-01 6.233339e-01 -0.2409630165 -3.020074e-01  
## [1716,] 0.4672015810 2.241867e-01 1.774496e+00 -0.0678876212 1.365275e-01  
## [1717,] -1.0167399143 1.095202e-01 2.198479e-02 0.6449406988 7.672218e-01  
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## [1719,] -0.5448348536 1.830011e-01 3.046313e-01 -0.2692147632 7.877586e-01  
## [1720,] -0.4972750911 1.811765e-01 4.745060e-01 1.0640609030 2.269669e-01  
## [1721,] 0.2857329134 2.306480e-01 1.144386e+00 0.6626281802 5.957308e-02  
## [1722,] 1.0235666300 2.796874e+00 3.615825e-01 0.2902027817 -6.096849e-01  
## [1723,] -1.1235596926 3.707146e-01 4.544597e-01 -0.2868944418 1.126982e+00  
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## [1725,] -0.7115202712 9.913057e-02 7.846298e-01 -1.5768433852 -2.312316e+00  
## [1726,] -0.0188518801 2.210702e-01 9.118763e-01 0.5469524563 2.712739e-01  
## [1727,] -0.2717427315 1.818897e-01 5.442595e-01 0.4659300553 5.523810e-01  
## [1728,] -0.2457631506 7.766604e-01 8.021014e-01 0.3888377065 3.728248e-01  
## [1729,] -0.2435497754 -2.778460e-01 9.421521e-01 -0.1902564576 7.494880e-01  
## [1730,] 0.4722811576 -1.236789e+00 1.036301e-01 0.0694565246 -1.488757e-02  
## [1731,] 0.2763855199 2.933884e-01 1.337916e+00 0.0765678471 2.858626e-01  
## [1732,] -0.1687479344 1.987492e-01 7.823201e-01 1.2725647177 -8.445625e-02  
## [1733,] 0.9197336174 5.925396e-02 -4.672555e-01 1.6137055145 1.812093e+00  
## [1734,] -0.9765195155 3.195468e-01 -7.779848e-03 0.9753931484 5.302313e-01  
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## [1738,] -0.2570528585 7.349306e-01 9.658462e-01 -0.2224571209 6.661931e-01  
## [1739,] -2.3879843026 -3.216517e+00 -1.777035e+00 -1.3186340119 -4.141706e-01  
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## [1752,] -0.4573824617 -7.699013e-02 -3.079018e-01 0.1586910852 -2.733651e-01  
## [1753,] -0.0629496176 3.829837e-01 -8.946553e-01 0.0029696092 -5.628484e-01  
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## [1755,] -0.5296331771 3.150408e-01 -3.598514e-01 -0.4124339776 3.210804e-01  
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## [1757,] -0.4099014418 1.683687e-01 -2.452199e-01 0.4964158507 -5.405178e-01  
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## [1766,] -0.7354909900 2.408160e-01 -3.419407e-01 -0.2143809281 1.643805e+00  
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## [1768,] 0.1425358521 -1.406915e+00 -1.043353e+00 -0.6186313919 -3.589510e-01  
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## [1771,] -0.4608356552 -9.996379e-03 -6.441774e-01 -0.8741182350 4.951947e-01  
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## [1790,] 0.9803838983 -4.046233e-01 5.256555e-01 -1.0827699997 -1.411105e+00  
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## [1874,] -0.2147277487 -1.944902e-03 -1.797434e-01 -0.1088402475 8.109110e-03  
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## [1876,] -0.0414778572 -1.842842e-01 -3.327050e-01 0.2684515236 -7.738563e-02  
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## [1882,] 0.9180286925 3.026786e-01 -3.895878e-01 1.7095057735 1.691085e+00  
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## [1948,] -1.5833327032 2.542779e-01 -6.683044e-01 -1.0970682405 6.693373e-01  
## [1949,] -0.2858359527 -6.690127e-02 -4.896045e-01 0.6096399819 7.769009e-03  
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## [2016,] -0.4991068224 -3.184839e-01 -1.438438e+00 0.1150370463 -1.497388e-01  
## [2017,] 0.5765716703 -1.361815e-01 3.714729e-02 0.0284581306 3.688385e-01  
## [2018,] 0.3222000883 1.980411e-01 1.090446e+00 0.6393970758 1.114066e-01  
## [2019,] 1.5534159927 1.341401e+00 4.953872e-01 -1.0042933721 6.120311e-02  
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## [2022,] -2.3890375195 5.730161e-01 -6.054214e-01 -0.1783732516 -1.098862e+00  
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## [2047,] 0.4771924822 1.565916e+00 -9.890460e-01 -0.8423533255 1.589343e-01  
## [2048,] -0.5498684282 1.561752e+00 6.540555e-01 0.3933680812 1.179192e+00  
## [2049,] -0.3972827379 6.760756e-02 -3.463414e-01 1.1152346182 2.519106e-01  
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## [2051,] 0.3410823793 -1.751251e+00 -2.251253e+00 -0.4687237903 -2.139592e-01  
## [2052,] 0.8919122159 -2.752475e-01 5.545828e-01 -1.2064921334 -7.162969e-01  
## [2053,] -0.0024113444 -6.957823e-01 -4.296323e-02 1.3652016328 -3.528345e-01  
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## [2060,] -0.1148126902 -3.415084e-01 1.004796e-01 0.3512700603 -6.686419e-01  
## [2061,] -2.3708421737 5.523839e-01 -6.271433e-01 -0.0716525632 -1.145038e+00  
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## [2064,] -0.0627250376 2.701398e-01 -4.371135e-01 -0.2358919480 5.717541e-01  
## [2065,] 0.1934344052 1.508679e-01 1.290766e-01 0.1545242052 -3.958194e-02  
## [2066,] -0.3952204122 -1.485123e-01 -4.973262e-01 -0.1473260202 1.828764e-01  
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## [2072,] -0.5794324852 -1.216218e-01 -2.010857e-01 0.3929574865 -4.759910e-01  
## [2073,] -1.8428147230 1.498317e-01 1.300220e+00 -0.0674278529 -1.615780e+00  
## [2074,] 0.3934852739 -1.013115e-01 -2.628282e-01 1.2821878117 -4.352032e-01  
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## [2076,] 0.9433374462 1.693189e+00 8.502038e-01 -0.6549376414 1.276364e-01  
## [2077,] -0.9427824720 -1.447368e-03 -1.163440e+00 0.6053118257 3.946737e-01  
## [2078,] -0.0224283881 -4.515289e-01 1.374274e-01 -0.1838535161 1.396356e-01  
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## [2081,] -0.4222564166 2.054649e-01 -3.160036e-01 -0.4666705637 2.551669e-01  
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## [2098,] 0.8407928676 -8.241770e-01 -2.713783e-01 0.2940238105 4.465153e-02  
## [2099,] -0.3577332896 -1.233423e-01 -5.711478e-01 -0.0430577540 2.755474e-01  
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## [2103,] 1.1464076034 1.802913e-01 -8.527960e-01 0.2479660203 1.781755e+00  
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## [2110,] -0.2282307002 9.484604e-03 -4.547437e-01 -0.0944814005 2.400829e-01  
## [2111,] -0.1411571117 -6.810310e-01 -4.022650e-01 -1.5805160788 4.928602e-01  
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## [2113,] -0.6081589204 -1.711632e-01 1.411523e+00 1.1574128397 1.028181e+00  
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## [2117,] -0.0648150376 -3.673952e-01 9.053891e-03 0.5840121129 -6.984748e-01  
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## [2125,] -2.4116263896 3.815785e-01 -5.994230e-01 -0.2454625837 -9.729104e-01  
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## [2136,] -0.5486113546 9.330961e-01 -8.291160e-01 -0.0372837667 -5.778095e-01  
## [2137,] -1.3994588082 1.561259e-01 -5.883652e-01 -1.0841479061 7.565403e-01  
## [2138,] 0.1756185822 7.291087e-03 5.457064e-01 -1.1491813213 1.873786e-01  
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## [2153,] -0.5592266724 6.221086e-01 -1.475768e-01 -0.7562473271 3.117089e-01  
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## [2159,] -1.0920791189 7.344324e-01 -9.154566e-01 -0.1447295775 2.035557e-01  
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## [2162,] -0.4781031605 4.882490e-01 6.693796e-02 -1.1048333341 2.358869e-01  
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## [2175,] -0.0370354976 7.959239e-02 1.080740e+00 -0.0024497774 5.108106e-01  
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## [2218,] 1.7384566750 -1.601228e-01 -1.126484e+00 0.0260587204 3.638919e-01  
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## [2221,] -0.4639965225 -5.382784e-02 -1.813232e-01 0.4355294002 -6.024577e-01  
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## [2230,] 0.7829614280 -3.259037e-01 -1.323040e+00 -1.0517374329 -7.141574e-01  
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## [2233,] -0.1631669937 2.720085e-01 -2.844946e-01 0.3428806816 -1.681829e-01  
## [2234,] -0.4535059183 -4.618987e-02 -5.941956e-01 -0.0860876693 2.429885e-01  
## [2235,] -0.0543275721 -3.023867e-01 -4.048577e-01 0.1623779869 1.805741e-01  
## [2236,] -0.5389291805 3.336094e-01 -4.643227e-01 -0.2599099342 2.981314e-01  
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## [2394,] -0.9054998876 -5.037177e-02 -1.168058e+00 0.6584169488 3.623720e-01  
## [2395,] 0.7491676154 -8.674915e-03 -1.505305e+00 0.9933970179 1.297855e+00  
## [2396,] 0.1842156627 -1.431597e-01 -4.266899e-01 0.8737940477 -1.760875e-03  
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## [2398,] 0.1912914341 -6.445319e-01 -4.469547e-01 2.0561880955 -8.550035e-01  
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## [2403,] 0.2850255756 -2.498481e-01 -3.799430e-01 0.9132419408 -3.429007e-02  
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## [2406,] 0.4428189748 -1.209255e-01 2.841578e-01 -0.3089435519 1.786233e-01  
## [2407,] -2.9841220118 -1.182216e-01 4.426285e-01 -0.1758591090 -5.793457e-01  
## [2408,] -1.1642220365 5.444294e-01 -8.574655e-01 -0.3508328518 2.801843e-01  
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## [2416,] -0.3338671475 -4.563659e-03 -4.660284e-01 -0.4618138282 2.633555e-01  
## [2417,] 1.0458300716 -2.890142e-01 9.936741e-02 -0.6401383592 -9.278084e-01  
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## [2517,] 0.2565225538 -2.305285e-01 4.400844e-01 0.3456479040 -6.979002e-01  
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## [2522,] 0.2594623151 3.382125e-01 7.738009e-01 1.6314575683 -2.974623e-01  
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## [2557,] -0.1264922305 8.564387e-01 7.953265e-01 0.8115989161 2.326662e-01  
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## [2563,] -0.8754514669 2.333816e-01 -1.245626e-01 0.8831687942 4.315763e-01  
## [2564,] 0.2549978039 3.033486e-01 1.104000e+00 0.3117326244 3.019834e-01  
## [2565,] 0.8946890475 2.498068e-01 3.029576e-01 -0.6674905133 -9.165104e-01  
## [2566,] -0.2979466001 3.699568e-01 1.273251e+00 -0.4188198964 6.377975e-01  
## [2567,] -0.0342623128 6.146434e-01 8.422896e-01 0.9210479120 4.067591e-02  
## [2568,] -0.2080810521 3.891130e-01 6.786650e-01 0.5190338297 4.412241e-01  
## [2569,] 0.3322528610 -8.596519e-01 6.407252e-01 -0.3272329177 3.823208e-01  
## [2570,] 0.4756527930 2.243095e-01 1.522157e+00 1.3029450103 -5.206137e-01  
## [2571,] -0.5687232942 4.693227e-01 4.881652e-01 0.0218641400 8.186001e-01  
## [2572,] 1.5615133316 -4.146390e-03 1.066625e-01 2.8547530638 7.824115e-01  
## [2573,] 0.2492281118 5.745094e-02 1.232269e+00 0.2728291152 2.705840e-01  
## [2574,] 0.4772713036 1.506308e-01 1.330548e+00 0.7458257780 -7.848745e-02  
## [2575,] 0.0974209700 2.641555e-01 1.254426e+00 -0.0820582337 5.133779e-01  
## [2576,] 0.2501942587 -7.785793e-01 9.832082e-01 -0.7096135066 3.807829e-01  
## [2577,] -1.0698909801 1.180033e-01 1.598288e+00 -0.0315698426 1.613756e+00  
## [2578,] -0.3647170377 9.443788e-01 8.400981e-01 0.1865185911 4.520996e-01  
## [2579,] 0.3039351631 2.036239e-01 1.005002e+00 1.1667437625 -1.573369e-01  
## [2580,] -0.0345300300 6.130744e-01 1.040592e+00 -0.1433026587 6.809439e-01  
## [2581,] -0.5252812389 8.126063e-01 8.762905e-01 -0.1181887198 6.489022e-01  
## [2582,] 0.6746342874 6.275139e-02 1.834423e+00 -0.0219337914 8.135277e-02  
## [2583,] 1.2054152625 -1.489661e+00 -2.414806e-01 -0.6866880459 -5.288955e-01  
## [2584,] 0.3194785982 7.609617e-03 -1.987558e-01 0.2494709229 -3.274940e+00  
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## [2587,] -0.6195157650 3.307553e-02 2.348905e-01 1.9137139503 6.123120e-01  
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## [2590,] -0.4054933858 2.224073e-01 3.537680e-01 0.4099485352 3.014828e-01  
## [2591,] 0.9320797793 8.839859e-01 1.247441e+00 -0.2438275550 1.160125e-01  
## [2592,] 0.4686474878 -2.115919e-01 9.533375e-01 -0.0583812329 2.982688e-01  
## [2593,] 0.0654722306 -1.091915e+00 -4.323012e-01 0.4410338593 4.838843e-02  
## [2594,] -3.5560276166 -2.789360e+00 -2.787574e-01 -0.1794303352 -4.254381e-01  
## [2595,] 0.3630721641 -1.096956e+00 7.172892e-01 -0.1698918472 1.615794e-01  
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## [2616,] -0.2826923989 -1.590662e-01 -3.357375e-01 -0.2688521406 2.200387e-01  
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## [2618,] 0.2798859212 -6.464593e-01 -3.561656e-01 -1.2139251076 -1.834462e+00  
## [2619,] 1.1356615402 -1.243539e-01 -9.814938e-01 1.9731565914 3.944127e-01  
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## [2625,] -1.0993984084 -1.188619e+00 -6.907842e-01 -0.3931258351 4.628444e-01  
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## [2631,] -1.8626290729 -3.221933e-01 3.780304e-02 -0.3601847765 -1.722051e+00  
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## [2655,] -0.2958502042 4.996492e-01 -2.603720e-01 -0.3693351149 4.817700e-01  
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## [2664,] -0.3156530246 5.135421e-01 -2.903931e-01 -0.3379283686 5.108323e-01  
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## [2667,] 0.3440793883 -2.977086e-01 7.151829e-01 0.0069869397 -6.670292e-01  
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## [2675,] 0.2124130331 3.895245e-01 4.387171e-01 0.2859563294 -3.594807e-01  
## [2676,] 0.1411593858 -3.604385e-01 3.626935e-01 -0.2599049592 -5.270717e-02  
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## [2689,] -0.0634650339 -2.428903e-02 5.538158e-01 -0.9470090375 -4.042163e-02  
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## [2695,] -0.1269628363 -1.111151e-01 7.806742e-01 0.4791571754 4.148198e-01  
## [2696,] -0.3174682127 -5.207496e-01 2.863014e-01 1.0249034994 -2.392042e-03  
## [2697,] -0.7780242037 1.301528e-01 8.691921e-01 0.3719971795 1.107778e+00  
## [2698,] -0.2074765281 -6.934764e-02 -5.307787e-02 -0.2318966880 -1.695668e-01  
## [2699,] 0.5999977427 4.174947e-01 -1.465147e+00 0.4221296484 1.788401e+00  
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## [2701,] 0.5171039985 -3.552778e-02 6.175663e-02 0.1601568731 3.032210e-01  
## [2702,] 0.0632323261 -3.427557e-02 -1.169609e-01 0.5382039730 -4.943684e-01  
## [2703,] -0.1088426983 -2.191153e-01 -2.012650e-01 0.1350537161 -5.407866e-02  
## [2704,] 0.1510315541 -1.233043e+00 -8.173134e-01 -0.7613191161 -3.585231e-02  
## [2705,] -1.8850435034 -3.131740e-01 -1.351181e-02 -0.2410885252 -1.777921e+00  
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## [2724,] 0.4276927175 2.321032e-02 -1.422493e-02 0.2063561870 2.748680e-01  
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## [2737,] 0.0543356654 1.653327e-01 -3.616007e-02 -0.1501931376 7.336344e-02  
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## [2739,] -1.5226181408 6.966847e-01 -3.805884e-01 -0.6477233174 6.987960e-01  
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## [2919,] -0.6532212572 8.123509e-01 -7.773671e-01 0.4106665834 9.674268e-02  
## [2920,] -0.1359625908 2.536864e-01 -3.230393e-01 0.4786373468 -2.036050e-01  
## [2921,] 0.2019546380 -8.104642e-02 -8.544171e-02 0.5431043731 -3.681601e-01  
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## [2925,] 0.1886996968 1.171218e-01 9.480862e-01 0.6691763913 1.727321e-01  
## [2926,] 0.0442526654 1.575778e-01 -4.044454e-01 0.0261122913 3.475846e-01  
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## [2930,] 0.5973984826 -2.396132e-01 3.939570e-01 0.2130669782 -2.732396e-01  
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## [3024,] -1.2650550620 -2.325823e-01 1.080395e+00 -1.3149133815 -1.326309e+00  
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## [3106,] -0.2236005387 4.485138e-01 -2.798133e-01 -0.3103517813 5.307927e-01  
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## [3302,] 0.2062921311 -3.727166e-01 -4.480966e-01 -0.2835244349 1.556693e-01  
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## [3417,] -0.7865737769 -1.393249e-01 -1.179697e+00 0.4215172092 2.437160e-01  
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## [3429,] -0.1685214977 7.162917e-02 6.568870e-01 -1.2652873289 -3.446852e-03  
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## [3436,] 0.7815453047 1.110133e-03 7.574938e-01 -0.4147305647 1.502355e-01  
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## [3513,] 1.7717622472 1.273900e+00 -5.858944e-01 -0.1449479095 1.718140e+00  
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## [3598,] 0.6995591618 3.558148e-01 -1.330860e+00 0.3405140551 1.741234e+00  
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## [3603,] -0.0560572556 2.403134e-01 -8.206138e-03 0.1835323324 -3.989447e-01  
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## [3621,] -0.6371453628 2.268626e-01 2.812648e+00 0.4146502148 1.722542e+00  
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## [3624,] 0.0197797850 2.869616e-01 2.354229e+00 1.0276987448 3.708367e-01  
## [3625,] -1.2376306552 7.229413e-01 1.121917e+00 0.7666906387 1.367444e+00  
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## [3701,] 0.8416243862 4.522074e-01 1.078936e+00 -0.1088959533 1.647722e-01  
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## [3769,] -0.3375156543 6.830282e-01 7.972241e-01 0.2026316695 1.379700e-01  
## [3770,] -0.8662749357 -6.910244e-02 2.150665e-01 -0.3776750104 1.321173e+00  
## [3771,] 0.3285296714 3.824261e-01 1.677539e+00 0.0745177396 1.438024e-01  
## [3772,] -0.0493596741 2.053439e-01 1.446084e+00 -0.5024360740 6.022719e-01  
## [3773,] -0.0472753253 3.595451e-01 8.443835e-01 0.6727817199 2.566305e-01  
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## [3775,] -0.1819445948 1.856526e-01 9.128525e-01 0.0946300817 6.492802e-01  
## [3776,] -1.6193786656 8.424809e-02 1.271787e+00 0.4043472893 -1.463801e+00  
## [3777,] 0.2156976667 2.210367e-01 2.333463e+00 0.5183504580 1.068544e+00  
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## [3779,] 0.4667458947 -1.210853e+00 3.634702e-01 0.2691428708 -2.649135e-01  
## [3780,] 0.7952350432 9.532201e-01 1.055937e+00 0.4207939209 -1.871851e-01  
## [3781,] -1.2016511467 1.442131e-01 2.383302e+00 -0.3678136606 -1.664965e+00  
## [3782,] 0.1997484873 3.866622e-01 9.076411e-01 1.4613692392 -2.551904e-01  
## [3783,] 0.2644539814 -3.844004e-01 3.434520e-01 0.6041991337 -1.668656e-01  
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## [3785,] -0.5116385710 -9.464670e-01 -4.524354e-01 -1.1852776596 7.487589e-01  
## [3786,] -1.8640199082 -4.845985e-02 1.051550e+00 0.0313738940 -1.134161e+00  
## [3787,] 0.2395786498 1.849822e-01 1.493171e+00 -0.3069109914 4.741593e-01  
## [3788,] 0.0336721405 7.338857e-01 2.596366e+00 -1.6410035132 5.976809e-01  
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## [3796,] -1.5409978133 -2.982305e-01 1.897933e+00 -0.3968102801 -1.247620e+00  
## [3797,] 1.4787012033 2.400277e-01 3.953251e-01 0.8025261983 1.796619e+00  
## [3798,] -0.6565526188 8.902335e-01 3.869968e-01 0.6076818058 5.284368e-01  
## [3799,] -0.3574760765 1.085747e-01 5.072780e-01 0.4626287142 6.108691e-01  
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## [3803,] 0.2728592840 2.321994e-01 7.249964e-01 1.4319065921 -1.224895e-01  
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## [3820,] 0.4512008889 -1.128466e+00 8.018805e-01 0.0298756674 1.772735e-02  
## [3821,] 0.3646886803 2.152522e-01 1.118736e+00 0.5699625409 1.506339e-01  
## [3822,] -0.3005717458 -2.654827e-01 2.624740e+00 -0.4907999044 1.116382e+00  
## [3823,] -0.1278473151 9.721106e-02 -1.400963e-02 -0.0001534015 -2.649409e-01  
## [3824,] -0.9327148267 -3.177759e-01 1.296829e+00 -0.7050163046 -1.649042e+00  
## [3825,] 0.2947992813 -7.404056e-01 -7.987742e-01 0.2065568096 -3.024914e-01  
## [3826,] 0.4658801195 -3.949522e-02 6.707450e-02 0.3296976507 -1.348289e-01  
## [3827,] -0.1865272936 1.374023e-01 -8.055294e-01 0.6321844583 2.716014e-01  
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## [3833,] 0.4256918805 9.911171e-01 -3.630343e-01 0.3528407334 -5.386121e-01  
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## [3859,] -1.2165545259 -1.660750e-01 1.435551e+00 1.1647269136 1.022863e+00  
## [3860,] -0.0254952214 -9.911957e-01 1.362519e+00 0.4222133057 1.189106e+00  
## [3861,] 0.3348574991 1.917070e-01 1.974510e-01 -0.1496647748 2.156150e-01  
## [3862,] 0.5888982863 9.143856e-02 -1.052437e+00 -1.4035695150 -7.987129e-01  
## [3863,] 0.0653227876 -1.101838e+00 -6.843688e-01 -0.2748618459 -5.839551e-01  
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## [3892,] -1.8675974932 -1.527965e-01 2.575124e-01 -0.3629600040 -1.880571e+00  
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## [3894,] 0.1787384829 -4.142671e-01 2.433219e-01 0.1512727359 -3.918765e-01  
## [3895,] 1.1123190760 1.336158e+00 1.420872e-01 -0.8702477126 -5.726098e-01  
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## [3902,] 1.2339661529 -2.524671e+00 -7.827904e-01 0.4366252952 -1.279672e+00  
## [3903,] 0.4707892099 -1.120293e-01 2.793616e-01 -0.2569239954 -9.833151e-04  
## [3904,] 0.4464108815 -1.469455e-01 2.585753e-01 0.1294035865 -2.956616e-01  
## [3905,] 0.9182975240 -3.148688e-02 -1.293351e+00 1.0091332638 1.306655e+00  
## [3906,] 0.7001121180 6.470815e-01 -6.824130e-02 -0.0822037722 -4.436198e-01  
## [3907,] -0.2362611032 8.195702e-02 -1.178346e-01 -0.5130652017 3.108884e-01  
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## [3912,] -1.5623255427 -6.165078e-01 7.436896e-01 -0.8016423288 -1.454016e+00  
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## [3934,] -0.9747094273 -5.863624e-01 1.603431e-01 0.8875408847 -1.936825e+00  
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## [3941,] 0.5174043419 -2.117130e-01 3.340818e-01 0.0492684858 -2.743694e-01  
## [3942,] 0.8574074249 5.494251e-01 3.760285e-01 -1.3962389132 -5.610319e-01  
## [3943,] -0.2985803828 -2.919472e-01 2.561281e+00 -0.4155329619 1.112696e+00  
## [3944,] 0.7152700029 -1.327538e-01 -1.324375e+00 0.8611402365 1.316427e+00  
## [3945,] -1.3870031354 -2.360566e-01 4.667105e-01 0.4013342102 5.511003e-01  
## [3946,] -0.9627024461 -5.467949e-01 1.148815e-01 0.9287763341 -1.837221e+00  
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## [3948,] -0.3846565946 4.667287e-01 2.072333e-01 -0.8853302877 1.247789e-01  
## [3949,] -0.6181432415 -2.828013e-01 -1.157599e-01 -0.6506335074 2.188082e-01  
## [3950,] -0.8728956413 -8.979762e-01 -7.939062e-01 0.2631119782 1.224513e-01  
## [3951,] -0.2714024667 -7.038663e-02 -3.188813e-01 -0.5581271955 -2.116809e-01  
## [3952,] 0.2342838291 -1.533895e-01 3.695543e-01 -0.7935266057 3.081649e-01  
## [3953,] 1.4651800837 4.558474e-03 -1.253189e+00 -0.2090843980 4.216704e-01  
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## [3956,] -1.2218406898 -5.030555e-01 3.109243e-02 0.0197634141 -1.126084e+00  
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## [3958,] -0.1614259164 -6.221745e-01 -6.477182e-01 -0.7549498941 -2.829958e-01  
## [3959,] 1.4454683001 1.752074e+00 -1.294618e+00 -0.6232085421 1.200500e+00  
## [3960,] -0.4843769897 5.430625e-01 3.503505e-01 -1.4358212503 2.048291e-01  
## [3961,] 0.2420525501 -1.749887e-01 4.421435e-01 -0.8204508539 2.242103e-01  
## [3962,] 0.5447075401 -1.317997e-01 2.415041e-01 -0.0886410379 -1.651283e-02  
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## [3964,] 0.5417547509 2.940406e+00 -1.084798e+00 -0.6078827962 -6.127725e-01  
## [3965,] -1.0082507837 4.520984e-01 1.827088e-01 0.2825149206 1.132240e+00  
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## [3968,] 0.1660828621 -3.925794e-01 1.790329e-01 0.2143054080 -3.643166e-01  
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## [3970,] 0.4558295593 -2.333580e-02 -1.165838e+00 -1.4138517322 -6.743279e-01  
## [3971,] 1.2353406587 -2.514713e+00 -8.076428e-01 0.5243796407 -1.307961e+00  
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## [4115,] -0.8729838745 6.076888e-01 -5.120674e-01 -0.2742864227 4.858903e-02  
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## [4118,] -0.3749604770 7.103117e-01 7.022853e-01 0.8383573082 1.773339e-01  
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## [4129,] -0.0441230765 1.051319e-01 -1.529925e-01 0.2139146105 -4.229378e-02  
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## [4131,] -0.2350781888 -3.257452e-01 2.641359e+00 -0.3960642701 1.056457e+00  
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## [4140,] -0.4808245892 5.734758e-02 -1.267893e-01 0.2526392752 -2.230934e-01  
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## [4287,] 0.1619497265 1.480353e+00 4.001949e-01 -0.4591227426 3.414743e-01  
## [4288,] -0.5331292649 3.728212e-01 -1.498657e-01 -0.7045627124 1.414292e-01  
## [4289,] 0.4868541391 -1.007604e-01 2.009905e-01 -0.1173031706 -2.282595e-02  
## [4290,] -0.4328243497 5.122018e-01 4.340028e-01 -1.4649107029 1.380128e-01  
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## [4293,] 0.5448272172 -1.745223e-01 7.731934e-01 -0.8718116435 4.510408e-03  
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## [4296,] 0.6526946802 -1.676573e-01 -1.736216e-01 1.3981185524 -2.471790e-01  
## [4297,] -0.4959262764 6.132932e-01 -3.416676e-01 0.2519531380 -3.034090e-01  
## [4298,] 0.2434593375 9.764659e-02 7.073122e-01 -0.7323282157 -2.640888e-01  
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## [4302,] -0.1864802612 -2.578145e-01 -3.902690e-01 -0.0927540929 5.658174e-02  
## [4303,] -0.6890215961 -1.304093e-01 1.810515e+00 -0.1553558766 1.318158e+00  
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## [4308,] 0.6811157806 6.806935e-01 8.658703e-03 -0.1916731063 -4.870292e-01  
## [4309,] -0.9740089951 -2.186646e-01 1.548437e-01 -0.6823742513 -2.890386e+00  
## [4310,] -0.1254381698 3.563749e-01 -3.100854e-01 0.3119714587 -6.127775e-02  
## [4311,] 0.8607868763 -2.076364e-01 -1.270516e+00 0.9364030786 1.336580e+00  
## [4312,] 0.3563625092 -2.877429e-01 -4.630242e-01 0.5125323417 -2.304016e-01  
## [4313,] 0.3068043384 -2.307323e-01 -1.928562e-01 0.9158259886 -4.214513e-01  
## [4314,] 0.2223917323 -4.317979e-01 2.389168e-01 0.2620850533 -4.368015e-01  
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## [4462,] 0.6498485010 -1.370968e-01 -6.257076e-02 1.1252057085 -1.457972e-01  
## [4463,] -1.4591156167 -4.164049e-01 4.123486e-01 0.4108137529 5.915294e-01  
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## [4468,] -0.4769924542 5.345931e-01 4.184376e-01 -1.5114759481 1.669607e-01  
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## [4471,] 0.4330960988 2.470189e-01 1.591375e+00 -1.9247530028 6.546610e-01  
## [4472,] 1.1097516691 -3.825867e+00 -1.965270e+00 -1.4438376718 -5.179325e-01  
## [4473,] 0.3686439878 -1.972511e-01 -1.241674e-01 0.8328042959 -2.891168e-01  
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## [4475,] 1.4767005770 -5.173671e-01 -1.396552e+00 0.5933546695 1.667644e+00  
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## [4484,] 0.6710554048 -1.576172e-01 -3.714713e-02 1.1883137056 -2.329473e-01  
## [4485,] 0.2292111034 -2.316682e-01 3.338952e-01 -0.0812921484 -2.903118e-01  
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## [4629,] 1.4074341433 -8.388752e-03 -1.094707e+00 0.8701206876 1.690513e+00  
## [4630,] -0.2496369063 -3.181470e-01 -3.756993e-01 0.1133712645 -3.805981e-01  
## [4631,] 0.0259580135 1.377701e+00 -6.253652e-01 -1.1055351184 -1.449879e-01  
## [4632,] -0.6005677976 1.082822e-01 -5.583712e-01 0.9363381447 -4.000595e-01  
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## [4635,] 0.2190025224 2.148660e-01 -4.914923e-01 0.5774663818 2.212167e-01  
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## [4644,] 0.2671296128 -3.364926e-01 -1.173630e-01 0.4673398556 -3.900848e-01  
## [4645,] 1.0882033674 -3.524119e-01 3.141318e-01 -0.8277166531 -1.138130e+00  
## [4646,] 0.1748399241 1.056158e-01 6.468513e-01 -0.7179946518 -1.712750e-01  
## [4647,] 0.1419812993 1.368227e-02 1.036427e-02 0.5467958203 -5.292227e-01  
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## [4653,] -0.1027041844 1.867852e-02 -4.471954e-01 0.4165452257 -1.261532e-01  
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## [4655,] 0.6167439066 -6.381971e-01 -3.101361e-01 0.0715438521 2.483194e-02  
## [4656,] 0.7265480102 -3.019721e-01 5.558697e-01 0.1891788698 -4.510260e-01  
## [4657,] -0.2743237212 -6.273676e-01 4.400150e-01 -0.3991216226 5.653305e-01  
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## [4712,] -0.3908325197 1.204241e-01 1.319977e-01 -0.5402602780 -9.041295e-01  
## [4713,] 0.7181531111 8.547981e-04 5.851504e-01 0.7430003022 -3.903253e-01  
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## [4716,] -1.2558891206 -4.151768e-01 2.180690e-01 1.6217950723 1.320433e+00  
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## [4719,] 0.7131154340 -3.648026e-01 2.918781e-01 0.4723811917 -4.738169e-01  
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## [4738,] 0.8082780473 3.710215e-01 1.226944e+00 0.8992392113 -4.790182e-01  
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## [4752,] 1.2964673327 1.502602e+00 7.794982e-01 0.7958363773 -6.307142e-01  
## [4753,] -2.5675292881 -2.773985e-01 2.539773e-01 0.8655372882 -7.881760e-01  
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## [4758,] 0.5169522090 -2.949118e+00 -8.503665e-01 -0.6873989130 2.834044e-02  
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## [4761,] 0.2991674405 2.039348e-01 5.387658e-01 -1.3502152782 5.031913e-01  
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## [4766,] -1.6035028117 -1.877350e+00 -1.590030e-01 -0.1356709713 -1.377174e+00  
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## [4805,] 0.3638022522 -3.548096e-01 -6.380810e-01 -0.1214109371 -3.948220e-01  
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## [4809,] -0.2804519226 5.273934e-01 2.849822e-01 -0.3871299125 -1.925291e-01  
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## [4815,] 0.7216341019 -3.120227e-01 6.872620e-01 -0.0193514557 -4.694286e-01  
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## [4827,] -0.0066815914 2.080798e-01 -1.566082e-02 -0.0230241426 -1.638066e-01  
## [4828,] -0.9713042561 9.909220e-01 -3.537390e-01 -1.1079298753 7.452740e-01  
## [4829,] -0.9084220495 -3.537368e-03 1.315800e+00 -0.4343463308 5.106929e-01  
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## [4851,] -1.2994736619 -4.088565e-01 2.153868e-01 1.6157794366 1.249514e+00  
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## [5145,] 0.3405147143 -4.612522e-03 7.171364e-01 -0.6782362232 -1.671159e-01  
## [5146,] 0.1596779277 -3.583410e-02 5.038092e-01 0.0007999846 -5.405461e-01  
## [5147,] -0.0087666552 -4.733636e-01 -2.616592e-01 0.3931974082 -1.474585e-02  
## [5148,] -0.4026751887 -2.867541e-01 1.376038e+00 1.4855786828 9.088161e-01  
## [5149,] 0.3435539711 -3.470904e-01 -1.491677e-02 0.9309967282 -7.678617e-01  
## [5150,] 0.3433731569 -4.780077e-01 -3.835865e-01 0.6613486717 -7.241924e-01  
## [5151,] -0.0761757909 5.461345e-01 -5.312958e-01 0.2415282199 4.561813e-01  
## [5152,] 0.8567609225 -1.351667e+00 -5.103052e-01 -0.0659070556 6.215079e-01  
## [5153,] 0.1297950560 -1.054324e+00 -3.109928e-01 0.2817341575 -5.727094e-01  
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## [5155,] -1.2373354708 -1.478223e+00 3.768334e-01 0.4853141438 -2.074139e+00  
## [5156,] -1.7346843863 1.038371e+00 -3.164457e-01 -1.5757409303 -9.085873e-01  
## [5157,] 0.3759691915 1.101095e-01 -2.511656e-01 0.4279127039 1.608909e-01  
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## [5162,] -0.2970551856 -5.534774e-01 -3.168365e-01 -0.6996866053 9.611126e-01  
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## [5171,] 0.4967203555 -6.102802e-01 3.499016e-01 0.7220651044 -6.444555e-01  
## [5172,] 0.2593463552 -9.249151e-03 -2.279765e-01 0.2537925683 2.466303e-01  
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## [5178,] 0.2222832235 -8.496287e-02 5.248393e-01 0.0321310522 -5.414667e-01  
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## [5188,] 1.2250957930 -5.154101e-01 -1.158884e+00 -0.3241402839 9.536405e-01  
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## [5197,] 1.3078765055 -8.906543e-01 -5.856852e-01 -0.1490492235 -6.551559e-01  
## [5198,] 0.7242721729 7.832721e-02 1.758350e-01 0.2811290195 -7.437927e-01  
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## [5219,] 0.1995884613 1.626710e-02 2.382151e-02 0.5127480624 -5.656761e-01  
## [5220,] 0.3522968176 -3.037804e-01 -5.230087e-01 0.3535679682 -8.073914e-02  
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## [5223,] 0.3213254989 -3.314033e-01 -4.475939e-02 0.9734596698 -8.038303e-01  
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## [5227,] 0.2584965051 -5.147618e-01 -2.118933e-02 0.8421814387 -7.204011e-01  
## [5228,] 0.1734953774 -5.909203e-02 5.090409e-01 0.0440539867 -6.055650e-01  
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## [5244,] -0.5134482871 1.905179e-01 -7.754014e-01 1.2021756126 -6.198547e-01  
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## [5246,] -2.0013805081 -1.376056e+00 3.951624e-01 -0.8952437901 1.340173e+00  
## [5247,] 0.0879849177 9.410271e-02 9.580251e-02 0.3741043621 -6.627893e-01  
## [5248,] -1.4135040269 -2.987294e-01 9.268527e-01 1.0712803223 -8.695512e-01  
## [5249,] 0.1806050151 -7.720541e-01 9.026606e-02 0.8936989098 -4.797271e-01  
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## [5251,] -0.4382874374 -8.288284e-01 -3.812939e-01 -0.0632557399 1.955639e-01  
## [5252,] 0.1715072106 3.151820e-02 -4.077766e-02 0.6362575774 -6.202152e-01  
## [5253,] -0.4902105868 -2.669933e-01 1.354070e+00 1.4663658976 8.297909e-01  
## [5254,] 0.5751668191 -4.711597e-01 5.852679e-01 -0.7166523344 -4.755591e-02  
## [5255,] -0.3633580189 6.713363e-01 -7.518354e-02 0.1450649293 -4.155827e-01  
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## PC16 PC17 PC18 PC19  
## [1,] -5.250597e-02 -1.751377e-03 0.0129325531 7.248569e-02  
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## [3,] -4.099219e-02 -5.048640e-03 0.0651622866 1.132229e-01  
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## [8,] 6.318964e-02 1.673476e-03 -0.0543421153 5.062547e-02  
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## [11,] 3.404184e-01 4.031928e-01 -0.5962371953 1.259636e-01  
## [12,] 3.960970e-02 -7.421052e-02 0.0191963736 9.178278e-02  
## [13,] -9.038092e-02 5.068113e-02 -0.0408500133 -4.418093e-02  
## [14,] -1.315831e-01 3.300365e-02 -0.0820826492 -3.828661e-02  
## [15,] -3.222724e-02 -1.500584e-01 0.0621174991 6.228174e-02  
## [16,] -1.918626e-01 -1.948804e-01 0.1122515280 1.459801e-01  
## [17,] 4.058522e-01 -3.945049e-01 -0.0875845192 1.159080e-01  
## [18,] 1.242813e-01 3.367876e-01 -0.6265535217 2.645757e-01  
## [19,] -1.362233e-01 6.935669e-02 -0.0314993897 5.063936e-03  
## [20,] -1.629867e-02 -8.090401e-02 0.0325287139 1.261335e-01  
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## [28,] -5.378511e-02 -9.156171e-02 0.0521712538 -3.114774e-02  
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## [34,] 1.458229e-02 6.157268e-02 -0.1582738862 -1.537777e-02  
## [35,] -4.129631e-02 -1.525135e-01 0.1400464580 1.679857e-01  
## [36,] -3.070577e-02 -1.110618e-01 0.0696735966 1.488465e-01  
## [37,] 2.597212e-01 3.042196e-01 -0.5034149714 4.274360e-02  
## [38,] 3.920845e-01 1.615278e-02 -0.1327607159 -1.400760e-01  
## [39,] -2.255521e-02 -9.170976e-02 0.0508611680 1.195438e-01  
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## [42,] -6.468525e-02 2.847150e-02 0.1490856919 2.665679e-01  
## [43,] -9.726896e-02 2.104154e-01 -0.4390350351 -1.526085e-01  
## [44,] -7.896730e-02 1.126694e-02 0.0294737196 9.732021e-02  
## [45,] 5.523912e-01 1.381867e-01 0.2321673725 4.431084e-01  
## [46,] -2.095224e-01 -7.367169e-02 0.2916122415 1.430981e-01  
## [47,] 3.224092e-01 9.437024e-02 -0.2932610636 -2.810970e-02  
## [48,] 1.491653e-03 -1.009451e-01 -0.0116898047 6.950255e-02  
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## [65,] -2.425952e-02 1.537620e-02 0.0898837047 1.867136e-01  
## [66,] -4.366005e-02 -6.874132e-03 -0.0852069183 -4.769295e-02  
## [67,] -1.688035e+00 9.969582e-01 0.6185411373 -5.757365e-02  
## [68,] -4.686633e-02 -1.466851e-01 0.0967688117 1.279338e-01  
## [69,] 1.814234e-01 -2.599222e-01 -0.0645147777 4.764184e-02  
## [70,] -6.008925e-02 -2.200652e-01 0.0520406784 5.937734e-02  
## [71,] -8.514720e-03 -2.250627e-02 0.0311980389 1.557842e-01  
## [72,] 4.823365e-01 2.610374e-01 -0.9282977557 -1.354377e-01  
## [73,] -6.622525e-02 -2.137571e-01 0.0454731546 5.890389e-02  
## [74,] -2.038637e-01 1.836181e-01 -0.3005203740 4.869008e-01  
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## [78,] 2.126110e-01 -2.134847e-01 -0.1422140009 -7.734636e-02  
## [79,] -5.627367e-02 -9.914618e-02 0.0690206977 1.455736e-01  
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## [81,] -5.557639e-02 -1.647595e-01 0.1636843896 1.787027e-01  
## [82,] -4.036754e-02 -2.657475e-01 0.1131597037 7.732014e-02  
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## [92,] 1.146458e-01 -1.473993e-01 0.1855121442 3.329935e-01  
## [93,] -6.386142e-01 -4.142685e-01 0.6015956954 -2.491560e+00  
## [94,] -1.363853e-01 -2.973271e-02 0.0532506530 6.555666e-02  
## [95,] -5.358534e-02 -1.695917e-01 0.1945311534 1.175726e-01  
## [96,] 2.829740e+00 9.236830e-01 1.0569515132 -1.597239e-01  
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## [98,] -1.779350e+00 9.782966e-01 0.7071430383 -3.535708e-02  
## [99,] -1.698293e+00 8.800008e-01 0.7555737307 -2.433717e-03  
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## [129,] -9.759138e-02 4.685499e-02 0.0384914540 6.133696e-02  
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## [159,] -1.022501e-01 2.548273e-01 -0.1902204764 5.771121e-02  
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## [277,] -2.478974e-02 9.971775e-03 -0.0215893581 -7.991057e-03  
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## [690,] 7.260147e-04 3.070860e-01 -0.1964958921 1.474667e-01  
## [691,] 1.946021e-01 2.949659e-01 -0.4354265519 -8.714508e-02  
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## [693,] -1.806204e-01 -9.442256e-02 0.1121636539 9.044808e-02  
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## [1104,] 1.755765e-01 -4.358817e-02 0.0285486390 1.036722e-01  
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## [1304,] 4.033079e-01 1.649375e-01 -0.1906398467 3.256267e-02  
## [1305,] -1.720284e-02 -3.624326e-03 0.0228268354 5.498459e-02  
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## [1316,] 1.056616e-01 1.874356e-02 0.0379065759 1.221545e-01  
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## [1328,] -3.104296e-04 7.520289e-02 -0.1514473579 -1.463265e-01  
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## [1503,] -7.787890e-03 -7.377673e-02 0.0479778795 2.603662e-02  
## [1504,] -7.227361e-02 -1.302285e-03 -0.1700427794 -9.530635e-02  
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## [1509,] -2.194188e-03 -1.499672e-02 0.0123198448 5.580652e-02  
## [1510,] 1.577161e-02 -9.257464e-02 0.0964562071 7.462465e-02  
## [1511,] -1.147259e-01 -1.419910e-02 -0.1101011549 8.622851e-02  
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## [1514,] 7.455002e-02 1.757640e-01 -0.3790552948 1.195252e-01  
## [1515,] 3.060065e-02 3.221101e-02 -0.0956445440 -1.912473e-02  
## [1516,] -1.004993e-01 -7.637563e-02 0.1273524855 1.551223e-01  
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## [1521,] 7.289272e-02 1.401694e-02 0.0077379447 4.172018e-02  
## [1522,] 3.794616e-02 1.280969e-01 -0.3261226124 3.085971e-02  
## [1523,] 2.752130e-01 -6.615317e-02 -0.0475336084 -1.060501e-01  
## [1524,] -1.060269e-04 2.998850e-01 -0.5013895155 2.574530e-02  
## [1525,] -8.933310e-02 -9.680114e-02 0.0417281981 -5.338932e-02  
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## [1530,] -8.878797e-02 -1.227240e-01 -0.0888805987 -2.601890e-01  
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## [1534,] -9.887307e-02 2.129697e-03 0.0136791013 1.232288e-01  
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## [1536,] -5.976654e-03 -1.913005e-02 0.0478878338 1.425689e-01  
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## [1705,] -9.938283e-02 -1.789696e-01 0.0157893620 1.353766e-01  
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## [1711,] 3.656633e-01 -1.334043e-01 -0.0454524653 6.711687e-02  
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## [1713,] -1.673842e-01 9.850266e-03 0.0649679089 9.271730e-02  
## [1714,] 4.359655e-03 -1.292513e-01 -0.0457636397 -1.745101e-01  
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## [1716,] -8.355326e-02 1.419234e-02 0.0179716700 6.316375e-02  
## [1717,] 1.377243e-01 3.363548e-02 -0.0687105929 3.450916e-02  
## [1718,] -1.215339e-01 -4.579989e-02 0.1300059497 1.196606e-01  
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## [1721,] -1.827143e-01 -3.685315e-02 0.1010027512 4.473911e-02  
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## [1728,] -6.373941e-02 -9.671265e-02 0.0600514745 3.278881e-02  
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## [1732,] -5.424241e-02 -3.154004e-02 -0.0256470166 -1.038704e-01  
## [1733,] -3.960563e-01 -9.027501e-03 0.0765178150 1.690507e-03  
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## [1735,] 4.744948e-02 -1.185268e-02 0.0536426685 6.580004e-02  
## [1736,] 1.014042e-01 2.827657e-01 -0.3252469759 4.476479e-01  
## [1737,] -6.802307e-04 -4.271115e-02 -0.1091809890 -4.056511e-02  
## [1738,] -3.927582e-02 -1.461030e-01 0.1512831795 1.558022e-01  
## [1739,] 7.075865e-01 2.273599e-02 -0.5569166921 -1.003011e-01  
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## [1742,] -1.908444e-01 -1.808464e-01 0.1922252558 1.883677e-02  
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## [1764,] 1.450952e-01 2.274801e-03 -0.1946605383 1.204267e-01  
## [1765,] 2.326815e-01 -6.218060e-02 -0.0155079719 1.172446e-01  
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## [2128,] 6.051607e-02 -8.234604e-02 0.1138975935 1.390051e-01  
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## [2131,] -5.957203e-02 -5.337089e-02 0.0866269103 1.673818e-01  
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## [2133,] -3.052109e-01 -7.103100e-02 0.1256372747 9.804367e-03  
## [2134,] -4.813962e-02 -1.361771e-01 0.0718435455 1.157577e-01  
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## [2139,] 1.854908e-01 -1.807106e-01 0.1200861866 6.194308e-02  
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## [2144,] -2.383337e-02 -1.944931e-01 0.1828138984 4.369361e-02  
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## [2146,] -1.520593e-02 -1.508543e-02 0.0012906664 1.050981e-01  
## [2147,] -4.062565e-03 -5.603954e-02 0.0594301110 5.897849e-02  
## [2148,] -1.663748e+00 1.297703e+00 0.5864061451 -4.903847e-02  
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## [2172,] -1.415834e-01 -9.600906e-02 0.0929759121 3.208873e-02  
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## [2179,] 5.367356e-01 2.315307e-01 -0.6179964320 4.829246e-02  
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## [2317,] -1.419428e-01 -1.104192e-01 0.1699919733 7.195700e-02  
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## [2321,] 1.858016e-01 1.360946e-01 -0.1613932750 -1.414513e-01  
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## [2536,] -3.257113e-01 -4.231309e-02 0.0460472208 1.388054e-02  
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## [2726,] -7.467783e-03 8.297279e-02 -0.1372468897 1.272678e-01  
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## [2728,] -2.219533e-02 6.240724e-02 -0.0135682646 1.894477e-01  
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## [2737,] -6.980757e-03 -4.668379e-02 0.0251587787 8.364090e-02  
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## [2742,] -4.319795e-02 3.727531e-04 -0.0341680470 1.367611e-01  
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## [2757,] 6.511970e-02 2.817249e-02 -0.0009442463 1.492849e-01  
## [2758,] 2.189581e-01 -2.542106e-01 0.1443149085 5.618336e-02  
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## [2928,] -1.696785e+00 1.166505e+00 0.6604417903 2.017916e-01  
## [2929,] 5.176127e-02 -1.600552e-01 0.0850525027 6.082599e-02  
## [2930,] -9.502554e-02 -5.416397e-04 0.0110144020 4.155555e-02  
## [2931,] -1.092572e-01 1.709342e-02 0.0415028030 8.686144e-02  
## [2932,] -1.784795e+00 -1.093644e+00 -0.5486638047 4.956325e-02  
## [2933,] 6.555133e-02 8.147487e-01 -1.2343297120 -2.593800e-01  
## [2934,] 1.633002e-01 6.316986e-02 -0.0150893317 3.298842e-02  
## [2935,] -1.550876e-01 6.899391e-03 0.0018916307 1.425819e-01  
## [2936,] 2.886900e+00 8.614667e-01 1.0654102243 -4.236728e-01  
## [2937,] -1.540192e-01 -1.617636e-02 -0.0010443353 5.318500e-02  
## [2938,] -8.356339e-02 8.532051e-02 -0.0633852069 5.727473e-02  
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## [2940,] -1.760646e+00 -1.026494e+00 -0.8141288431 -6.191582e-02  
## [2941,] -1.761921e-01 5.104374e-02 -0.0892439295 4.686520e-02  
## [2942,] -1.767431e-02 9.292368e-02 -0.0599674412 1.739429e-01  
## [2943,] 9.360592e-02 -1.241002e-01 -0.0182675351 -3.765069e-02  
## [2944,] 7.618154e-02 -2.199663e-01 0.1100300401 1.678561e-01  
## [2945,] -1.820111e+00 1.398638e+00 0.2555489840 -1.135443e-01  
## [2946,] -2.315566e-01 3.283435e-01 -0.3133621561 8.620425e-02  
## [2947,] 9.803391e-02 -6.059806e-02 0.1237504517 1.896343e-01  
## [2948,] -1.693516e-01 7.529996e-02 -0.1081709270 3.575657e-02  
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## [2952,] -4.698572e-01 -6.866348e-01 0.7221001415 -2.541568e+00  
## [2953,] -1.650290e+00 -1.001090e+00 -0.9816781153 -3.360475e-01  
## [2954,] -9.978021e-02 -1.466584e-03 -0.0252920459 4.888782e-02  
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## [2956,] 8.093817e-01 1.179397e+00 -1.9115399732 -2.904452e-01  
## [2957,] 5.211095e-02 -2.469592e-01 0.1326701386 1.451414e-01  
## [2958,] 9.881404e-02 -8.392868e-02 0.1575608771 1.161412e-01  
## [2959,] 4.978839e-03 5.849237e-02 -0.0301438439 9.592995e-02  
## [2960,] 9.192925e-02 -1.956479e-02 -0.1335619065 7.613709e-02  
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## [3537,] 1.184058e-01 7.075890e-02 0.0137279042 -3.667061e-02  
## [3538,] 3.619825e-02 2.484056e-02 -0.0550284128 -2.321603e-02  
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## [3540,] -2.356804e-01 -2.842646e-01 0.2752925911 1.179264e-01  
## [3541,] 5.969177e-02 4.807041e-02 0.0070864631 1.594206e-01  
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## [3740,] -1.834699e+00 -1.484030e+00 -0.0877383232 7.992309e-03  
## [3741,] -1.839922e-01 8.245298e-02 -0.0203835932 1.010609e-01  
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## [3743,] -3.189866e-02 2.276679e-01 -0.2824070093 2.826576e-03  
## [3744,] 7.192804e-01 2.194289e+00 1.7250288118 -5.358241e-01  
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## [3747,] -6.092933e-02 5.675189e-02 -0.1132143650 4.241123e-01  
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## [3755,] -2.326219e-01 2.317417e-01 -0.3157765874 -1.229497e-01  
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## [3760,] -1.137697e-01 1.736041e-01 -0.0081188816 2.230015e-01  
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## [3766,] -1.193024e-01 -6.645223e-02 0.0335255171 2.850477e-02  
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## [3770,] 1.176113e-01 2.948555e-02 0.0957921293 2.939366e-01  
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## [3940,] 2.661529e-01 1.982655e-01 -0.0635096875 -2.602077e-02  
## [3941,] -6.934989e-02 1.089040e-01 -0.0821297341 3.337528e-02  
## [3942,] -6.419612e-01 -6.385290e-01 0.7469870368 -2.549709e+00  
## [3943,] 8.587418e-01 1.390799e-01 0.2024744075 -5.343570e-01  
## [3944,] -1.711544e-01 -5.481096e-02 0.0649834660 -1.593144e-02  
## [3945,] -1.601055e+00 -1.036258e+00 -0.9023717607 -3.114879e-01  
## [3946,] -3.036843e-01 -5.409839e-02 0.2806056782 2.367419e-01  
## [3947,] -3.368213e-02 -4.447701e-01 0.5806428175 1.921592e-01  
## [3948,] 1.732407e-01 -1.623195e-01 0.0627813380 1.072206e-01  
## [3949,] 3.160129e-01 1.742155e-01 -0.2409728440 3.340178e-02  
## [3950,] 3.054274e-01 7.769346e-02 0.0082748248 6.387117e-02  
## [3951,] 2.077862e-01 -2.006153e-01 0.0670172930 3.825280e-02  
## [3952,] 5.244264e-02 1.069001e-02 0.0267977959 1.890663e-01  
## [3953,] -3.482350e-02 -5.021850e-02 -0.0193294406 4.780633e-01  
## [3954,] 9.840803e-02 -1.361490e-01 0.0692438332 -5.587675e-02  
## [3955,] -8.578231e-02 4.577692e-03 -0.0391062635 4.526283e-01  
## [3956,] -1.836476e-01 1.658390e-01 0.0028708628 3.113066e-01  
## [3957,] 2.480570e-04 5.730358e-02 0.0249407766 6.297915e-02  
## [3958,] 2.828494e-01 -1.538914e-01 -0.0690763868 4.389945e-03  
## [3959,] -8.855773e-02 -1.445045e-01 0.1899984009 1.873996e-01  
## [3960,] 2.516074e-01 -1.437427e-01 0.0890978888 1.534408e-01  
## [3961,] 6.661473e-02 1.572691e-02 0.0280641755 1.775477e-01  
## [3962,] -6.214231e-02 3.777367e-01 -0.4427844496 -2.834584e-02  
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## [3964,] 7.753802e-02 -2.790027e-01 0.2372327605 1.919881e-01  
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## [3968,] 6.353158e-02 6.062032e-02 -0.0334099262 -2.775998e-03  
## [3969,] 2.920104e-01 2.623982e-01 -0.3862017902 -3.122659e-02  
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## [3972,] -2.397852e-01 -1.859894e-02 0.0675931968 7.472616e-02  
## [3973,] -6.672339e-02 -4.667462e-01 0.6093564452 1.571472e-01  
## [3974,] 1.239389e-02 -3.830970e-02 -0.0043882641 6.440941e-02  
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## [4143,] 2.798963e-02 1.330331e-02 -0.0225217561 6.060711e-02  
## [4144,] 2.697907e-01 -2.200096e-01 0.0223249941 2.159573e-01  
## [4145,] -3.769122e-02 -8.600073e-02 0.0635978475 5.787235e-02  
## [4146,] -3.347841e-01 -6.126905e-02 0.1623510993 1.476453e-01  
## [4147,] 5.253604e-02 -9.424113e-01 0.9209250316 1.472019e-02  
## [4148,] 1.287446e-01 1.296516e-02 -0.0628705929 -3.275309e-02  
## [4149,] 7.406000e-02 -8.455841e-03 -0.1403197602 -1.070172e-01  
## [4150,] -3.924493e-01 -7.686168e-02 0.0390724974 7.871512e-02  
## [4151,] -3.889388e-02 1.769944e-03 0.0882892219 7.565684e-02  
## [4152,] 5.634501e-02 4.846227e-02 -0.0118417472 -1.666226e-02  
## [4153,] 2.112214e-01 4.722871e-01 -0.7547401568 -1.948281e-02  
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## [4158,] 2.278017e-01 6.481175e-02 0.0414285422 6.790779e-02  
## [4159,] 1.126887e-01 -1.698100e-01 0.0501059251 -7.197968e-02  
## [4160,] 8.389177e-01 1.577002e-01 0.1880342377 -5.321055e-01  
## [4161,] 8.319233e-02 1.319197e-02 -0.0044019603 1.708348e-02  
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## [4163,] -1.698149e+00 -9.672062e-01 -0.7929055760 -9.267166e-02  
## [4164,] -8.759958e-02 1.028497e-01 -0.1771690070 -8.071874e-02  
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## [4169,] -4.056268e-02 -2.215925e-02 0.0063100429 4.362599e-02  
## [4170,] -7.412269e-03 1.379008e-01 -0.0926528337 4.708835e-02  
## [4171,] 1.780963e-01 1.417120e-01 -0.1471678098 6.118318e-02  
## [4172,] -2.468610e-01 -1.825891e-02 -0.0766847905 -2.309266e-02  
## [4173,] -8.622934e-02 3.320652e-02 0.0154080443 -1.001560e-02  
## [4174,] 1.213539e-01 -1.720847e-01 0.1098486366 1.514802e-01  
## [4175,] 3.857536e-01 -9.104401e-02 -0.5784366047 -4.791912e-03  
## [4176,] 1.144338e-01 -1.842707e-01 0.1248230029 1.193119e-01  
## [4177,] -2.648641e-02 -7.665623e-02 0.1024840369 4.530360e-02  
## [4178,] 2.652981e+00 -1.046513e+00 -0.4013885884 -3.721493e-01  
## [4179,] -3.230243e-01 -4.151931e-02 0.0563806895 2.681804e-01  
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## [4184,] -2.195328e-02 -1.237624e-01 0.0729597559 1.661815e-01  
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## [4357,] -2.165184e-01 1.174393e-02 0.1145384343 1.246326e-01  
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## [4553,] -1.110381e-01 2.258841e-01 -0.0455814137 3.104339e-01  
## [4554,] 7.055728e-02 1.461055e-04 -0.0342846525 5.039858e-02  
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## [4563,] 4.771537e-03 9.361568e-02 0.0070693532 4.187623e-02  
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## [4570,] -8.522186e-02 -7.032397e-02 0.1131756914 1.223737e-01  
## [4571,] -4.091563e-01 -8.986058e-02 0.0796735682 8.718041e-02  
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## [4583,] 1.762299e-01 -1.323279e-01 0.0294392043 -5.168760e-02  
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## [4752,] -2.080387e-01 1.300475e-01 -0.0386470881 3.216696e-02  
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## [4754,] -1.134931e-01 2.110527e-01 -0.0343673578 5.376137e-02  
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## [4761,] 2.611653e-01 -2.852238e-01 0.1788496225 2.700490e-01  
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## [4774,] -1.348756e-01 7.832008e-03 0.0587187175 1.365389e-01  
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## [4954,] 2.895425e-01 -7.019720e-02 0.1360072991 2.371518e-01  
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## [4956,] -4.857784e-02 1.128455e-01 -0.0789232875 -9.104794e-02  
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## [4958,] 1.149185e-01 1.193020e-01 -0.1417643180 9.570101e-02  
## [4959,] -1.798304e+00 9.664958e-01 0.7690181819 -6.053443e-02  
## [4960,] -8.111999e-03 -1.116728e-01 0.1173677775 1.598433e-03  
## [4961,] 9.262283e-02 -1.179313e-01 0.0409406934 -2.256587e-02  
## [4962,] -4.346765e-01 4.800781e-02 0.0800958019 3.529294e-02  
## [4963,] 1.077927e-01 -8.588557e-02 0.0638384465 6.480473e-02  
## [4964,] -6.114923e-02 -8.649202e-02 0.0423235362 1.150292e-01  
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## [4967,] 7.415024e-02 -1.623022e-01 0.1085484735 2.764988e-02  
## [4968,] 1.314194e-01 -3.371844e-02 -0.1195089098 -1.748499e-02  
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## [4970,] -3.935717e-02 -1.132730e-01 -0.0356008861 5.205099e-02  
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## [4982,] 8.498638e-02 8.427467e-02 -0.0847690339 6.339436e-02  
## [4983,] -1.665011e-02 -6.567529e-02 0.1264302434 6.018457e-02  
## [4984,] 2.587024e-02 1.762407e-01 -0.3271924079 6.405706e-02  
## [4985,] -2.189839e-03 1.617549e-01 -0.3027274228 8.581095e-02  
## [4986,] -3.777431e-02 -4.878139e-03 0.0901453570 1.348450e-01  
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## [4988,] 1.598900e-01 -4.373494e-01 0.3783810704 4.633115e-02  
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## [5008,] -4.269329e-02 -7.160948e-02 0.3693580708 7.086606e-02  
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## [5012,] -1.861461e+00 1.012142e+00 0.7944641088 -8.780528e-02  
## [5013,] -1.080411e-01 5.838265e-01 -0.6335587675 -1.322656e-01  
## [5014,] 2.387609e-01 -2.780266e-02 -0.2777705617 -4.888085e-02  
## [5015,] -1.075514e-02 -1.444286e-01 0.1716587270 1.026873e-02  
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## [5020,] 4.783823e-02 1.078994e-01 -0.0700758080 -1.146197e-01  
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## [5042,] -8.081336e-03 -1.176285e-01 0.1610185015 5.343335e-02  
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## [5047,] 4.302648e-01 2.554395e-01 -0.0908914984 1.214718e-02  
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## [5057,] 2.686706e-03 6.063670e-02 -0.1101209680 2.427225e-02  
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## [5067,] -5.785453e-02 1.469705e-01 0.0281951609 1.135624e-01  
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## [5155,] 9.361009e-02 -3.566093e-02 -0.0624534249 2.351153e-02  
## [5156,] 5.723618e-01 1.470917e-01 -0.0758676431 -1.116010e-01  
## [5157,] -1.553164e-01 -1.192797e-01 0.1609732681 1.405901e-01  
## [5158,] -1.512957e-01 -1.013173e-03 0.0499679680 9.985216e-02  
## [5159,] 1.017959e-01 8.229739e-02 0.0515441627 1.113582e-01  
## [5160,] 7.132260e-02 -2.157627e-01 0.1638584429 3.774901e-02  
## [5161,] -2.440220e-01 -1.017055e-02 0.0373374893 -1.288665e-01  
## [5162,] 4.215107e-01 -4.184167e-01 0.3235460517 6.964751e-02  
## [5163,] 2.473285e-02 -8.241183e-02 0.0366776937 -3.838724e-02  
## [5164,] 1.503433e-01 1.467282e-01 -0.1429136395 6.775051e-02  
## [5165,] 2.517204e+00 -1.095754e+00 -0.2368180844 -2.939258e-01  
## [5166,] -1.599653e+00 -1.105714e+00 -0.7651149513 -2.092982e-01  
## [5167,] 2.108967e-01 -4.355810e-02 0.1097870945 1.835280e-01  
## [5168,] 1.838531e-01 1.781003e-01 -0.0934336332 6.690119e-02  
## [5169,] 5.478952e-02 -4.193746e-02 0.0111545366 -4.685216e-02  
## [5170,] 8.380415e-02 -9.624185e-02 0.1079311735 1.057441e-01  
## [5171,] -2.141254e-02 1.882851e-02 0.0181087991 -3.204678e-02  
## [5172,] -7.634274e-02 -4.374465e-02 0.0684507876 1.297698e-01  
## [5173,] -3.703236e-02 -3.177944e-02 0.0789261479 1.107970e-01  
## [5174,] 5.313332e-02 -3.790433e-02 0.0621837705 1.258930e-01  
## [5175,] 7.514127e-02 -1.727016e-01 0.1308102130 2.869885e-02  
## [5176,] 1.359798e-01 -1.194103e-01 0.0868910836 6.287134e-02  
## [5177,] -9.301485e-02 1.253309e-01 -0.1105385297 1.339664e-02  
## [5178,] 9.946063e-02 -3.214422e-02 0.0040601355 -2.930975e-02  
## [5179,] 5.535716e-02 1.487148e-01 -0.2271279876 -1.676392e-02  
## [5180,] 1.061012e-01 2.289821e-02 -0.0540471121 -3.581426e-02  
## [5181,] -2.650643e-02 2.057017e-01 -0.1895422165 -1.383977e-01  
## [5182,] 5.162357e-01 -2.904908e-01 0.4660602312 2.613528e-01  
## [5183,] 9.834559e-02 -4.155100e-02 0.1197712108 1.918011e-01  
## [5184,] 3.644307e-02 -1.103092e-01 -0.0079802690 -7.570721e-02  
## [5185,] 1.068199e-01 1.337286e-01 -0.0114915731 8.823561e-02  
## [5186,] -1.060763e-02 3.588616e-02 -0.0123702498 2.514733e-02  
## [5187,] 1.933143e-01 -2.676260e-03 0.0372646123 2.062091e-01  
## [5188,] 5.667518e-02 -3.997476e-02 0.0782601863 4.626083e-01  
## [5189,] 1.138720e-01 3.166885e-02 -0.0538520345 -5.010453e-02  
## [5190,] 1.188311e-01 8.970829e-02 -0.0269904629 -5.244018e-02  
## [5191,] 2.447525e-02 1.124367e-01 -0.1833872977 -1.751766e-02  
## [5192,] -1.772555e+00 9.426186e-01 0.8090453641 -3.495577e-02  
## [5193,] -1.561178e-02 4.207496e-02 -0.0815465537 -9.374741e-02  
## [5194,] -6.307118e-02 1.346876e-01 -0.1097236333 -1.051441e-01  
## [5195,] -1.469136e+00 -8.053863e-01 -0.8756971583 -5.092776e-02  
## [5196,] 3.783821e-01 -6.660377e-02 -0.1819711422 7.463944e-03  
## [5197,] 2.813861e-01 -2.660503e-02 -0.1916516898 2.075901e-02  
## [5198,] 6.591784e-02 5.826225e-02 -0.0193343168 1.471804e-02  
## [5199,] -2.821412e-02 2.814408e-01 -0.5260860664 -5.698577e-02  
## [5200,] 6.246359e-01 1.378311e-01 0.1661316082 -6.494899e-01  
## [5201,] 6.406584e-02 -8.473727e-02 0.0262975373 -3.764942e-02  
## [5202,] 1.166432e-01 -1.431092e-01 0.0741330475 -9.695412e-02  
## [5203,] 1.419468e-01 -2.577091e-01 0.1729110864 -2.356565e-02  
## [5204,] -1.484789e-01 6.903652e-02 -0.0607488968 -6.567230e-02  
## [5205,] -1.749362e-01 -4.191985e-02 -0.1277762246 -2.606602e-01  
## [5206,] -8.841436e-03 8.151350e-02 -0.0750465569 2.386462e-02  
## [5207,] -1.661297e+00 1.220642e+00 0.8515949366 -2.143132e-01  
## [5208,] 1.987539e-01 2.091087e-02 -0.0160481246 5.745249e-02  
## [5209,] 6.087532e-02 1.384243e-01 -0.1496094922 5.804648e-02  
## [5210,] 1.807581e-02 7.433131e-04 -0.1053226333 -1.142737e-01  
## [5211,] 2.454404e-01 7.681527e-02 0.0221002908 1.390521e-01  
## [5212,] 9.119930e-02 7.387981e-02 -0.0082919100 -3.719035e-02  
## [5213,] 2.443812e-03 1.604652e-02 0.0150562643 4.327067e-02  
## [5214,] -7.072815e-02 1.834454e-01 -0.4007284966 -7.449071e-03  
## [5215,] 4.521218e-02 -1.051433e-01 0.1468242575 6.194588e-02  
## [5216,] 1.260433e-01 -1.761616e-01 0.1547338316 8.315876e-02  
## [5217,] -1.086009e-01 5.317298e-01 -0.5524370414 -9.095648e-02  
## [5218,] 4.542437e-02 -7.426269e-02 0.1385216166 1.770315e-01  
## [5219,] -4.623204e-02 -6.209278e-02 0.0934173360 -8.052058e-03  
## [5220,] -2.335886e-02 -9.680881e-02 -0.0345820595 2.539129e-02  
## [5221,] 1.597635e-01 -1.150099e-01 0.1903839842 1.859848e-01  
## [5222,] 2.923952e-01 1.193735e-01 -0.1397908522 -1.075372e-01  
## [5223,] -5.383101e-02 1.853252e-01 -0.1677215148 -1.313071e-01  
## [5224,] -5.311206e-02 -1.677932e-01 0.4021704033 2.152558e-01  
## [5225,] 3.845478e-02 -4.133235e-02 0.0853933375 1.587442e-01  
## [5226,] -1.117369e-01 -5.951591e-02 0.1536817771 1.350015e-01  
## [5227,] 9.033161e-04 2.366559e-01 -0.2114661215 -1.209657e-01  
## [5228,] 1.148148e-01 -2.432232e-02 -0.0022270382 -4.569370e-02  
## [5229,] 6.367239e-01 1.596688e-01 0.1356879796 -6.942836e-01  
## [5230,] 5.946418e-01 1.500240e-01 0.1551117268 -6.527727e-01  
## [5231,] 2.643845e-01 -1.448025e-02 -0.2495449788 2.500193e-02  
## [5232,] -8.894231e-02 -3.112448e-01 0.1109128255 2.288445e-01  
## [5233,] 8.255591e-02 6.630463e-02 0.0043193918 3.208870e-02  
## [5234,] -3.946578e-02 -8.565721e-02 0.1670116068 6.621221e-02  
## [5235,] 6.137809e-02 -8.555575e-02 0.1331787679 6.670559e-02  
## [5236,] 1.123538e-01 -5.674548e-02 0.1457600872 1.939346e-01  
## [5237,] 1.167986e-01 -1.685322e-01 0.1716581745 8.793513e-02  
## [5238,] -4.278483e-02 -2.574164e-01 0.2272115460 -4.860966e-02  
## [5239,] -4.731713e-02 2.148735e-01 -0.4318304771 -1.771002e-02  
## [5240,] 1.433975e-01 4.562020e-03 -0.1522037072 -4.302503e-02  
## [5241,] -4.874008e-02 -1.392435e-01 0.0220731905 6.253297e-02  
## [5242,] 1.805183e-01 -1.126324e-01 0.0795287117 7.922075e-02  
## [5243,] 2.516983e-01 1.724474e-01 -0.0846548587 1.258766e-01  
## [5244,] 5.506855e-04 -2.517448e-01 0.2287296485 -5.556748e-02  
## [5245,] 1.425800e-02 -5.473128e-02 0.0163157720 -5.369000e-02  
## [5246,] -1.203970e+00 -7.698165e-01 -0.9623765543 -9.598786e-02  
## [5247,] 1.367399e-02 -3.821978e-02 0.0512510272 -4.202581e-02  
## [5248,] 2.533702e+00 -1.106166e+00 -0.2205185067 -3.007319e-01  
## [5249,] 7.229676e-02 -2.403292e-02 0.0276776978 -3.504558e-02  
## [5250,] 1.041739e-01 -1.425163e-01 0.0737068881 -1.172306e-01  
## [5251,] 2.485100e-01 1.190553e-01 -0.0091079489 1.143505e-01  
## [5252,] -5.163249e-02 -6.843799e-02 0.0976727414 -2.460838e-02  
## [5253,] 6.300596e-01 1.484360e-01 0.1517293337 -6.790473e-01  
## [5254,] 6.109234e-03 1.656279e-01 0.0026793948 1.757521e-01  
## [5255,] 1.371597e-01 -2.688651e-01 0.1992311114 -2.365199e-02  
## [5256,] 6.454676e-02 -4.879087e-02 -0.0064470224 -4.720284e-02  
## [5257,] 6.480092e-02 1.134104e-01 -0.0573873369 3.431114e-02  
## [5258,] 2.283063e-01 5.015082e-02 0.0099166964 1.678790e-01  
## [5259,] 1.329899e-01 -2.330060e-01 0.1436654226 -3.990022e-02  
## [5260,] 2.309530e-01 1.762898e-01 -0.0749187776 1.415880e-01  
## [5261,] 2.001569e-02 1.629647e-02 -0.0051549767 1.169856e-01  
## [5262,] 5.860633e-02 1.425031e-01 0.0109415335 1.556372e-01  
## [5263,] 1.417899e-01 -2.903553e-01 0.0673214669 7.260660e-02  
## [ reached getOption("max.print") -- omitted 697 rows ]

#Display the Scree Plot of the PCA analysis

plot(pca2, type = "l")

 #Print the weights of the Principal Components. Use the weights to tell a story on what the Principal Components represent. PC1 - M\_CLNO / M\_NINQ / M\_CLAGE / M\_DELINQ / M\_DEROG : Credit history PC2 - IMP\_MORTDUE / IMP\_CLAGE / IMP\_CLNO : Financial Situation

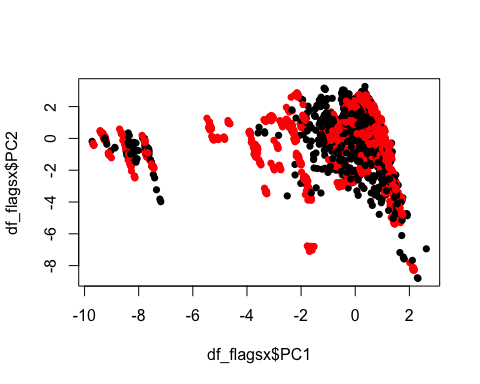
df\_new = predict( pca2, df\_pca )  
head(df\_new)

## PC1 PC2 PC3 PC4 PC5 PC6  
## [1,] 0.4290662 2.5778401 -1.03855364 -0.4291936 -0.2531232 -0.9929702  
## [2,] 0.3604417 1.3218033 -1.52485457 0.1037763 -0.1364533 -1.4662429  
## [3,] 0.3390211 2.7748917 -1.06629245 -0.4861323 -0.3544240 -0.8508115  
## [4,] -9.7215119 -0.1846459 -1.29779123 1.6744433 3.8884827 -3.6375764  
## [5,] 0.6519367 0.7711290 -0.70211529 -1.1721582 0.1993900 -1.8142863  
## [6,] 0.5004836 2.3331760 0.04280713 -0.8351715 -0.8023865 -0.2802112  
## PC7 PC8 PC9 PC10 PC11 PC12  
## [1,] 0.50263958 0.6715742 0.34532836 -1.04817576 -0.4566717 0.5220010  
## [2,] -0.65332688 0.6613880 0.07800966 -1.71689386 -0.1700520 -0.4121260  
## [3,] -0.09025301 1.0177487 0.51841638 -0.55420435 -0.1071618 0.2795503  
## [4,] 0.76901743 2.7227160 -1.36984644 3.17654411 -1.5372893 0.6069701  
## [5,] -0.59811519 0.6587597 0.30214478 -1.30385557 -0.4042679 0.6326919  
## [6,] 0.15216329 0.1810668 -0.50478401 -0.04507244 -0.6299297 0.2568295  
## PC13 PC14 PC15 PC16 PC17 PC18  
## [1,] 0.45562795 0.30134846 0.6230414 -0.05250597 -0.001751377 0.01293255  
## [2,] -0.03379518 -0.11746158 0.4409574 0.04277255 -0.282597268 0.16651402  
## [3,] 1.03220059 -0.05921498 0.5153971 -0.04099219 -0.005048640 0.06516229  
## [4,] -0.63942756 0.96297695 0.2207945 -0.02629120 0.429360547 -0.44450256  
## [5,] 0.43802386 0.37184850 0.6003907 -0.12617462 -0.116340722 0.13444666  
## [6,] -0.57259687 -0.43776780 0.3272833 0.12386140 -0.007867485 -0.01961611  
## PC19  
## [1,] 0.07248569  
## [2,] 0.12169036  
## [3,] 0.11322294  
## [4,] 0.22917537  
## [5,] 0.11175717  
## [6,] 0.08525785

df\_flags = df  
df\_flags$PC1 = df\_new[,"PC1"]  
df\_flags$PC2 = df\_new[,"PC2"]  
head(df\_flags)

## TARGET\_BAD\_FLAG TARGET\_LOSS\_AMT LOAN IMP\_MORTDUE M\_MORTDUE IMP\_VALUE M\_VALUE  
## 1 1 641 1100 25860 0 39025 0  
## 2 1 1109 1300 70053 0 68400 0  
## 3 1 767 1500 13500 0 16700 0  
## 4 1 1425 1500 65000 1 89000 1  
## 5 0 0 1700 97800 0 112000 0  
## 6 1 335 1700 30548 0 40320 0  
## IMP\_YOJ M\_YOJ IMP\_DEROG M\_DEROG IMP\_DELINQ M\_DELINQ IMP\_CLAGE M\_CLAGE  
## 1 10.5 0 0 0 0 0 94.36667 0  
## 2 7.0 0 0 0 2 0 121.83333 0  
## 3 4.0 0 0 0 0 0 149.46667 0  
## 4 7.0 1 1 1 1 1 174.00000 1  
## 5 3.0 0 0 0 0 0 93.33333 0  
## 6 9.0 0 0 0 0 0 101.46600 0  
## IMP\_NINQ M\_NINQ IMP\_CLNO M\_CLNO IMP\_DEBTINC M\_DEBTINC FLAG.Job.Mgr  
## 1 1 0 9 0 35.00000 1 0  
## 2 0 0 14 0 35.00000 1 0  
## 3 1 0 10 0 35.00000 1 0  
## 4 1 1 20 1 35.00000 1 0  
## 5 0 0 14 0 35.00000 1 0  
## 6 1 0 8 0 37.11361 0 0  
## FLAG.Job.Office FLAG.Job.Other FLAG.Job.ProfExe FLAG.Job.Sales FLAG.Job.Self  
## 1 0 1 0 0 0  
## 2 0 1 0 0 0  
## 3 0 1 0 0 0  
## 4 0 0 0 0 0  
## 5 1 0 0 0 0  
## 6 0 1 0 0 0  
## FLAG.Reason.DebtCon FLAG.Reason.HomeImp PC1 PC2  
## 1 0 1 0.4290662 2.5778401  
## 2 0 1 0.3604417 1.3218033  
## 3 0 1 0.3390211 2.7748917  
## 4 0 0 -9.7215119 -0.1846459  
## 5 0 1 0.6519367 0.7711290  
## 6 0 1 0.5004836 2.3331760

# This code takes a random sample of the data so that we can visualize it easier.  
df\_flags$RAND1 = sample(1000, size = nrow(df\_flags), replace = TRUE)  
df\_flags$RAND2 = sample(1000, size = nrow(df\_flags), replace = TRUE)  
  
df\_flags0 = df\_flags[ which(df\_flags$TARGET\_BAD\_FLAG == 0), ]  
df\_flags1 = df\_flags[ which(df\_flags$TARGET\_BAD\_FLAG == 1), ]  
  
df\_flags0 = df\_flags0[ df\_flags0$RAND1 < 1000, ]  
df\_flags1 = df\_flags1[ df\_flags1$RAND1 < 5000, ]  
  
df\_flagsx = rbind( df\_flags0, df\_flags1 )  
df\_flagsx = df\_flagsx[ df\_flagsx$RAND2 < 15, ]  
  
df\_flagsx = df\_flags  
  
colors <- c("#00AFBB", "#E7B800")  
colors <- c("red", "black")  
colors <- colors[df\_flagsx$TARGET\_BAD\_FLAG + 1]  
plot( df\_flagsx$PC1, df\_flagsx$PC2, col=colors, pch=16 )



#Comment on whether you consider the first two Principal Components to be predictive. If you believe the graph is too cluttered, you are free to do a random sample of the data to make it more readable. That is up to you.

PC1 - M\_CLNO / M\_NINQ / M\_CLAGE / M\_DELINQ / M\_DEROG : Credit history PC2 - IMP\_MORTDUE / IMP\_CLAGE / IMP\_CLNO : Financial Situation

From the PCA plot, it seems that the first two principal components are the good variance. However, there is overlap between the two so it is not the idealistic plot.  
- PC1 is influenced by the variables related to the individual’s credit history: number of credit lines (M\_CLNO), number of recent credit inquiries (M\_NINQ), age of credit line (M\_CLAGE), past delinquencies (M\_DELINQ), and derogatory loans (M\_DEROG). - This is the borrower’s reliability and credit history when it comes to predicting the future loan performance. - PC2 appears to be associated with the individual’s current financial situation, specifically the outstanding mortgage due (IMP\_MORTDUE), age of credit line (IMP\_CLAGE), and number of credit lines (IMP\_CLNO). This component reflects the borrower’s current financial burden and assets, which can influence their ability to repay a loan.

They both are very useful to evaluate borrower’s predictive performance.

* Clustering and Overlap: It is very ambiguous. There’s a notable clustering of red dots, especially in the right side of the plot along PC1. This shows that bad loans tend to have similar relation to the credit history. However, there is also a significant overlap between red and black dots, also in the middle points. Credit history can distinguish bad loans from good ones.
* PC1: The fact that many bad loans are clustered in one side of the PC1 axis. It shows that PC1 might be capturing risk factors that are more prevalent among bad loans. It prospects poor credit management or higher credit utilization, which are known risk factors for defaulting on loans.
* PC2: Good loans and bad loans’ patterns are aligned with financial situation which is influenced by variables like outstanding mortgage dues and the number of credit lines. However, this spread does not show a clear pattern of separation between the good and bad loans.
* In summary, PC1 seems to be good predictive of loan defaults, showing credit history that correlate with bad loans. While PC2 prospects the financial situation but does not provide a clear separation

Step 3: tSNE Analysis

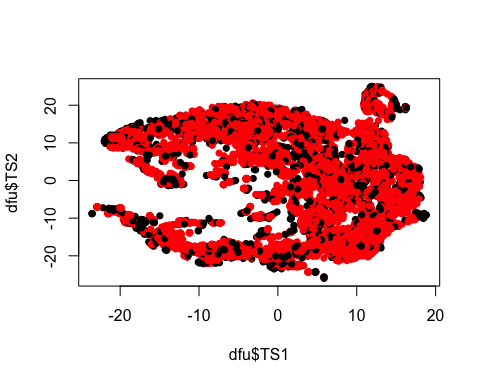
dfu = df  
dfu$TARGET\_LOSS\_AMT = NULL  
dfu = unique(dfu)  
head( dfu )

## TARGET\_BAD\_FLAG LOAN IMP\_MORTDUE M\_MORTDUE IMP\_VALUE M\_VALUE IMP\_YOJ M\_YOJ  
## 1 1 1100 25860 0 39025 0 10.5 0  
## 2 1 1300 70053 0 68400 0 7.0 0  
## 3 1 1500 13500 0 16700 0 4.0 0  
## 4 1 1500 65000 1 89000 1 7.0 1  
## 5 0 1700 97800 0 112000 0 3.0 0  
## 6 1 1700 30548 0 40320 0 9.0 0  
## IMP\_DEROG M\_DEROG IMP\_DELINQ M\_DELINQ IMP\_CLAGE M\_CLAGE IMP\_NINQ M\_NINQ  
## 1 0 0 0 0 94.36667 0 1 0  
## 2 0 0 2 0 121.83333 0 0 0  
## 3 0 0 0 0 149.46667 0 1 0  
## 4 1 1 1 1 174.00000 1 1 1  
## 5 0 0 0 0 93.33333 0 0 0  
## 6 0 0 0 0 101.46600 0 1 0  
## IMP\_CLNO M\_CLNO IMP\_DEBTINC M\_DEBTINC FLAG.Job.Mgr FLAG.Job.Office  
## 1 9 0 35.00000 1 0 0  
## 2 14 0 35.00000 1 0 0  
## 3 10 0 35.00000 1 0 0  
## 4 20 1 35.00000 1 0 0  
## 5 14 0 35.00000 1 0 1  
## 6 8 0 37.11361 0 0 0  
## FLAG.Job.Other FLAG.Job.ProfExe FLAG.Job.Sales FLAG.Job.Self  
## 1 1 0 0 0  
## 2 1 0 0 0  
## 3 1 0 0 0  
## 4 0 0 0 0  
## 5 0 0 0 0  
## 6 1 0 0 0  
## FLAG.Reason.DebtCon FLAG.Reason.HomeImp  
## 1 0 1  
## 2 0 1  
## 3 0 1  
## 4 0 0  
## 5 0 1  
## 6 0 1

#Justing using numbers   
theTSNE = Rtsne( dfu[,c(2,3,4,5,6,7,8,9,10,11,13,15,17,19)], dims = 2, perplexity=100, verbose=TRUE, max\_iter = 500)

## Performing PCA  
## Read the 5960 x 14 data matrix successfully!  
## Using no\_dims = 2, perplexity = 100.000000, and theta = 0.500000  
## Computing input similarities...  
## Building tree...  
## Done in 2.10 seconds (sparsity = 0.064896)!  
## Learning embedding...  
## Iteration 50: error is 77.907374 (50 iterations in 1.14 seconds)  
## Iteration 100: error is 64.310618 (50 iterations in 1.12 seconds)  
## Iteration 150: error is 61.905324 (50 iterations in 1.09 seconds)  
## Iteration 200: error is 61.393767 (50 iterations in 1.11 seconds)  
## Iteration 250: error is 61.227627 (50 iterations in 1.14 seconds)  
## Iteration 300: error is 1.343235 (50 iterations in 1.08 seconds)  
## Iteration 350: error is 1.033907 (50 iterations in 1.05 seconds)  
## Iteration 400: error is 0.895768 (50 iterations in 1.06 seconds)  
## Iteration 450: error is 0.816587 (50 iterations in 1.06 seconds)  
## Iteration 500: error is 0.769466 (50 iterations in 1.05 seconds)  
## Fitting performed in 10.89 seconds.

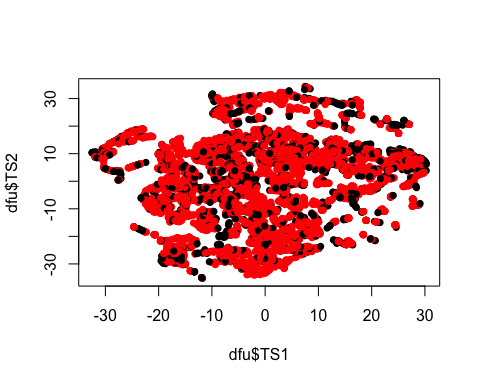
dfu$TS1 = theTSNE$Y[,1]  
dfu$TS2 = theTSNE$Y[,2]  
  
colors <- c("#00AFBB", "#E7B800")  
colors <- c("red", "black")  
colors <- colors[dfu$TARGET\_BAD\_FLAG + 1]  
plot( dfu$TS1, dfu$TS2, col=colors, pch=16 )



theTSNE = Rtsne( dfu[,c(2,3,4,5,6,7,8,9,10,11,13,15,17,19)], dims = 2, perplexity=30, verbose=TRUE, max\_iter = 500)

## Performing PCA  
## Read the 5960 x 14 data matrix successfully!  
## Using no\_dims = 2, perplexity = 30.000000, and theta = 0.500000  
## Computing input similarities...  
## Building tree...  
## Done in 0.54 seconds (sparsity = 0.019121)!  
## Learning embedding...  
## Iteration 50: error is 92.486170 (50 iterations in 1.40 seconds)  
## Iteration 100: error is 75.223702 (50 iterations in 1.03 seconds)  
## Iteration 150: error is 71.245496 (50 iterations in 0.80 seconds)  
## Iteration 200: error is 69.652971 (50 iterations in 0.77 seconds)  
## Iteration 250: error is 68.885391 (50 iterations in 0.80 seconds)  
## Iteration 300: error is 2.113892 (50 iterations in 0.79 seconds)  
## Iteration 350: error is 1.667750 (50 iterations in 0.82 seconds)  
## Iteration 400: error is 1.426505 (50 iterations in 0.80 seconds)  
## Iteration 450: error is 1.276909 (50 iterations in 0.84 seconds)  
## Iteration 500: error is 1.175206 (50 iterations in 0.83 seconds)  
## Fitting performed in 8.88 seconds.

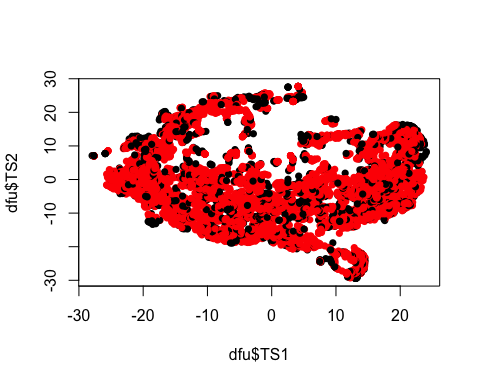
dfu$TS1 = theTSNE$Y[,1]  
dfu$TS2 = theTSNE$Y[,2]  
  
colors <- c("#00AFBB", "#E7B800")  
colors <- c("red", "black")  
colors <- colors[dfu$TARGET\_BAD\_FLAG + 1]  
plot( dfu$TS1, dfu$TS2, col=colors, pch=16 )



theTSNE = Rtsne( dfu[,c(2,3,4,5,6,7,8,9,10,11,13,15,17,19)], dims = 2, perplexity=70, verbose=TRUE, max\_iter = 500)

## Performing PCA  
## Read the 5960 x 14 data matrix successfully!  
## Using no\_dims = 2, perplexity = 70.000000, and theta = 0.500000  
## Computing input similarities...  
## Building tree...  
## Done in 1.36 seconds (sparsity = 0.045243)!  
## Learning embedding...  
## Iteration 50: error is 82.249191 (50 iterations in 1.02 seconds)  
## Iteration 100: error is 65.532206 (50 iterations in 1.07 seconds)  
## Iteration 150: error is 63.618326 (50 iterations in 1.22 seconds)  
## Iteration 200: error is 63.257961 (50 iterations in 1.16 seconds)  
## Iteration 250: error is 63.087798 (50 iterations in 1.09 seconds)  
## Iteration 300: error is 1.549218 (50 iterations in 0.97 seconds)  
## Iteration 350: error is 1.200705 (50 iterations in 1.08 seconds)  
## Iteration 400: error is 1.034509 (50 iterations in 0.92 seconds)  
## Iteration 450: error is 0.937427 (50 iterations in 1.04 seconds)  
## Iteration 500: error is 0.876644 (50 iterations in 1.04 seconds)  
## Fitting performed in 10.62 seconds.

dfu$TS1 = theTSNE$Y[,1]  
dfu$TS2 = theTSNE$Y[,2]  
  
colors <- c("#00AFBB", "#E7B800")  
colors <- c("red", "black")  
colors <- colors[dfu$TARGET\_BAD\_FLAG + 1]  
plot( dfu$TS1, dfu$TS2, col=colors, pch=16 )



#no predict modelling for tSNE  
#USe RF or LM  
P = paste(colnames(dfu)[c(2,3,4,5,6,7,8,9,10,11,13,15,17,19)], collapse = "+")  
F1 = as.formula( paste("TS1 ~", P ) )  
F2 = as.formula( paste("TS2 ~", P ) )  
  
print( F1 )

## TS1 ~ LOAN + IMP\_MORTDUE + M\_MORTDUE + IMP\_VALUE + M\_VALUE +   
## IMP\_YOJ + M\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ + IMP\_CLAGE +   
## IMP\_NINQ + IMP\_CLNO + IMP\_DEBTINC

print( F2 )

## TS2 ~ LOAN + IMP\_MORTDUE + M\_MORTDUE + IMP\_VALUE + M\_VALUE +   
## IMP\_YOJ + M\_YOJ + IMP\_DEROG + M\_DEROG + IMP\_DELINQ + IMP\_CLAGE +   
## IMP\_NINQ + IMP\_CLNO + IMP\_DEBTINC

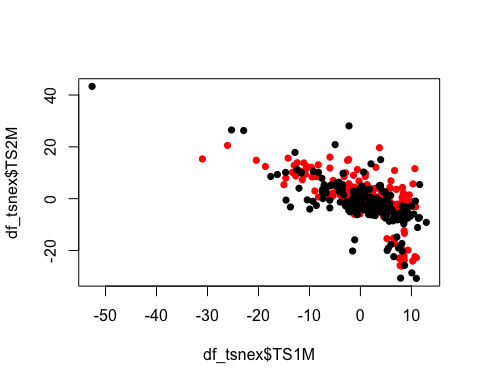
#Linear Regression  
ts1\_model = lm( F1,data=dfu )  
ts2\_model = lm( F2,data=dfu )

#Random Forest  
ts1\_model\_rf = randomForest( data=dfu, F1, ntree=500, importance=TRUE )  
ts2\_model\_rf = randomForest( data=dfu, F2, ntree=500, importance=TRUE )

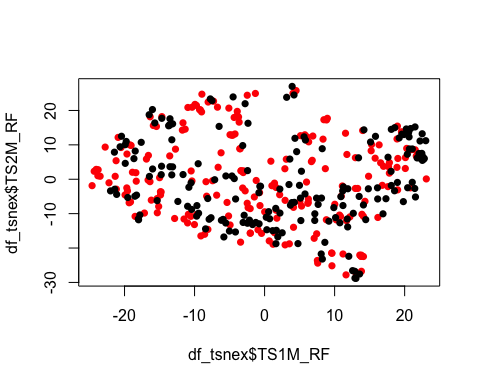
df\_tsne = df  
  
df\_tsne$TS1M = predict( ts1\_model, df\_tsne )  
df\_tsne$TS2M = predict( ts2\_model, df\_tsne )  
  
df\_tsne$TS1M\_RF = predict( ts1\_model\_rf, df\_tsne )  
df\_tsne$TS2M\_RF = predict( ts2\_model\_rf, df\_tsne )

# This code takes a random sample of the data so that we can visualize it easier.  
df\_tsne$RAND1 = sample(100, size = nrow(df\_tsne), replace = TRUE)  
df\_tsne$RAND2 = sample(100, size = nrow(df\_tsne), replace = TRUE)  
  
df\_tsne0 = df\_tsne[ which(df\_tsne$TARGET\_BAD\_FLAG == 0), ]  
df\_tsne1 = df\_tsne[ which(df\_tsne$TARGET\_BAD\_FLAG == 1), ]  
  
df\_tsne0 = df\_tsne0[ df\_tsne$RAND1 < 25, ]  
df\_tsne1 = df\_tsne1[ df\_tsne$RAND1 < 75, ]  
  
df\_tsnex = rbind( df\_tsne0, df\_tsne1 )  
df\_tsnex = df\_tsnex[ df\_tsnex$RAND2 < 20, ]

#LINEAR REGRESSION \_ tSNE  
#Not the good result  
f\_tsnex = df\_tsne  
  
colors <- c("#00AFBB", "#E7B800")  
colors <- c("red", "black")  
colors <- colors[df\_tsnex$TARGET\_BAD\_FLAG + 1]  
plot( df\_tsnex$TS1M, df\_tsnex$TS2M, col=colors, pch=16 )



#RF -tSNE  
colors <- c("#00AFBB", "#E7B800")  
colors <- c("red", "black")  
colors <- colors[df\_tsnex$TARGET\_BAD\_FLAG + 1]  
plot( df\_tsnex$TS1M\_RF, df\_tsnex$TS2M\_RF, col=colors, pch=16 )

 Step 4: Tree and Regression Analysis on the Original Data

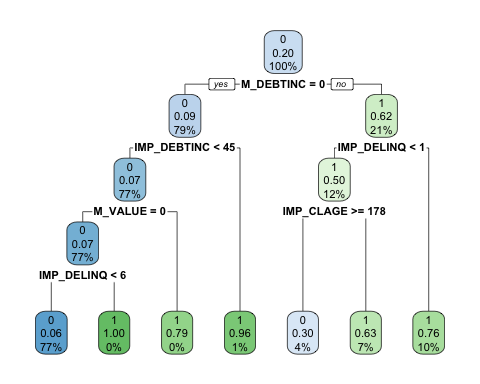
#Building models with original data #Flag

df\_model = df  
df\_model$TARGET\_LOSS\_AMT = NULL  
  
head( df\_model )

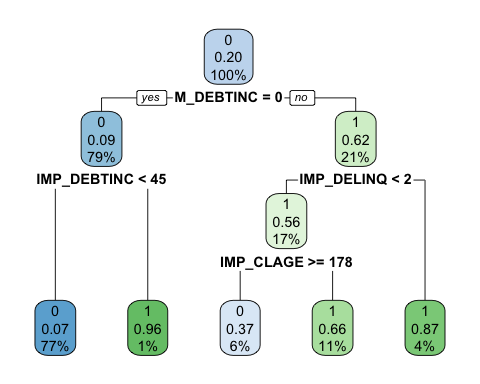
## TARGET\_BAD\_FLAG LOAN IMP\_MORTDUE M\_MORTDUE IMP\_VALUE M\_VALUE IMP\_YOJ M\_YOJ  
## 1 1 1100 25860 0 39025 0 10.5 0  
## 2 1 1300 70053 0 68400 0 7.0 0  
## 3 1 1500 13500 0 16700 0 4.0 0  
## 4 1 1500 65000 1 89000 1 7.0 1  
## 5 0 1700 97800 0 112000 0 3.0 0  
## 6 1 1700 30548 0 40320 0 9.0 0  
## IMP\_DEROG M\_DEROG IMP\_DELINQ M\_DELINQ IMP\_CLAGE M\_CLAGE IMP\_NINQ M\_NINQ  
## 1 0 0 0 0 94.36667 0 1 0  
## 2 0 0 2 0 121.83333 0 0 0  
## 3 0 0 0 0 149.46667 0 1 0  
## 4 1 1 1 1 174.00000 1 1 1  
## 5 0 0 0 0 93.33333 0 0 0  
## 6 0 0 0 0 101.46600 0 1 0  
## IMP\_CLNO M\_CLNO IMP\_DEBTINC M\_DEBTINC FLAG.Job.Mgr FLAG.Job.Office  
## 1 9 0 35.00000 1 0 0  
## 2 14 0 35.00000 1 0 0  
## 3 10 0 35.00000 1 0 0  
## 4 20 1 35.00000 1 0 0  
## 5 14 0 35.00000 1 0 1  
## 6 8 0 37.11361 0 0 0  
## FLAG.Job.Other FLAG.Job.ProfExe FLAG.Job.Sales FLAG.Job.Self  
## 1 1 0 0 0  
## 2 1 0 0 0  
## 3 1 0 0 0  
## 4 0 0 0 0  
## 5 0 0 0 0  
## 6 1 0 0 0  
## FLAG.Reason.DebtCon FLAG.Reason.HomeImp  
## 1 0 1  
## 2 0 1  
## 3 0 1  
## 4 0 0  
## 5 0 1  
## 6 0 1

#Create a Decision Tree to predict Loan Default (Target Flag=1). Comment on the variables that were included in the model.

tr\_set = rpart.control( maxdepth = 10 )  
t1G = rpart( data=df\_model, TARGET\_BAD\_FLAG ~ ., control=tr\_set, method="class", parms=list(split='gini') )  
t1E = rpart( data=df\_model, TARGET\_BAD\_FLAG ~ ., control=tr\_set, method="class", parms=list(split='information') )  
  
rpart.plot( t1G )



rpart.plot( t1E )



t1G$variable.importance

## M\_DEBTINC IMP\_DEBTINC IMP\_DELINQ M\_VALUE IMP\_CLAGE LOAN   
## 570.021010 128.539072 77.371518 51.334486 36.076295 25.645675   
## IMP\_DEROG M\_DEROG IMP\_VALUE M\_DELINQ M\_NINQ IMP\_YOJ   
## 22.501563 9.540586 8.551021 7.632469 6.311465 4.323751   
## M\_CLNO IMP\_CLNO IMP\_MORTDUE   
## 4.256569 2.837461 1.621407

t1E$variable.importance

## M\_DEBTINC IMP\_DEBTINC IMP\_DELINQ IMP\_CLAGE LOAN M\_VALUE   
## 762.591210 188.922871 68.152477 40.125205 34.053718 30.094365   
## IMP\_DEROG IMP\_VALUE IMP\_YOJ IMP\_CLNO IMP\_MORTDUE   
## 12.037746 10.263083 3.436136 3.075170 1.219274

#LOGISTIC REGRESSION MODEL

#Use every variable  
theUpper\_LR = glm( TARGET\_BAD\_FLAG ~ ., family = "binomial", data=df\_model )  
#Use no variable  
theLower\_LR = glm( TARGET\_BAD\_FLAG ~ 1, family = "binomial", data=df\_model )  
  
summary( theUpper\_LR )

##   
## Call:  
## glm(formula = TARGET\_BAD\_FLAG ~ ., family = "binomial", data = df\_model)  
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -7.217e+00 5.622e-01 -12.837 < 2e-16 \*\*\*  
## LOAN -7.945e-06 4.833e-06 -1.644 0.100181   
## IMP\_MORTDUE -3.604e-06 1.732e-06 -2.081 0.037446 \*   
## M\_MORTDUE 5.284e-01 2.031e-01 2.602 0.009270 \*\*   
## IMP\_VALUE 3.972e-06 1.248e-06 3.182 0.001464 \*\*   
## M\_VALUE 5.159e+00 5.358e-01 9.628 < 2e-16 \*\*\*  
## IMP\_YOJ -1.629e-02 6.898e-03 -2.361 0.018222 \*   
## M\_YOJ -6.176e-01 1.972e-01 -3.132 0.001739 \*\*   
## IMP\_DEROG 5.219e-01 6.258e-02 8.339 < 2e-16 \*\*\*  
## M\_DEROG -2.548e+00 2.983e-01 -8.540 < 2e-16 \*\*\*  
## IMP\_DELINQ 8.002e-01 5.263e-02 15.204 < 2e-16 \*\*\*  
## M\_DELINQ -1.603e+00 4.198e-01 -3.818 0.000135 \*\*\*  
## IMP\_CLAGE -5.976e-03 6.806e-04 -8.780 < 2e-16 \*\*\*  
## M\_CLAGE 1.109e+00 3.433e-01 3.230 0.001237 \*\*   
## IMP\_NINQ 1.453e-01 2.611e-02 5.565 2.61e-08 \*\*\*  
## M\_NINQ -1.492e-01 3.816e-01 -0.391 0.695827   
## IMP\_CLNO -1.306e-02 5.329e-03 -2.451 0.014266 \*   
## M\_CLNO 3.242e+00 6.324e-01 5.127 2.95e-07 \*\*\*  
## IMP\_DEBTINC 9.416e-02 8.783e-03 10.721 < 2e-16 \*\*\*  
## M\_DEBTINC 2.668e+00 9.545e-02 27.951 < 2e-16 \*\*\*  
## FLAG.Job.Mgr 2.243e+00 4.312e-01 5.201 1.98e-07 \*\*\*  
## FLAG.Job.Office 1.553e+00 4.333e-01 3.585 0.000337 \*\*\*  
## FLAG.Job.Other 2.339e+00 4.179e-01 5.597 2.19e-08 \*\*\*  
## FLAG.Job.ProfExe 2.104e+00 4.285e-01 4.909 9.14e-07 \*\*\*  
## FLAG.Job.Sales 3.421e+00 5.031e-01 6.801 1.04e-11 \*\*\*  
## FLAG.Job.Self 2.649e+00 4.827e-01 5.488 4.07e-08 \*\*\*  
## FLAG.Reason.DebtCon 4.464e-02 3.138e-01 0.142 0.886878   
## FLAG.Reason.HomeImp 1.655e-01 3.185e-01 0.520 0.603245   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 5956.5 on 5959 degrees of freedom  
## Residual deviance: 3233.3 on 5932 degrees of freedom  
## AIC: 3289.3  
##   
## Number of Fisher Scoring iterations: 6

summary( theLower\_LR )

##   
## Call:  
## glm(formula = TARGET\_BAD\_FLAG ~ 1, family = "binomial", data = df\_model)  
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -1.38944 0.03241 -42.87 <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: 5956.5 on 5959 degrees of freedom  
## Residual deviance: 5956.5 on 5959 degrees of freedom  
## AIC: 5958.5  
##   
## Number of Fisher Scoring iterations: 4

#Use either Forward, Backward, or Stepwise variable selection. Comment on the variables that were included in the model.

lr\_model = stepAIC(theLower\_LR, direction="forward", scope=list(lower=theLower\_LR, upper=theUpper\_LR))

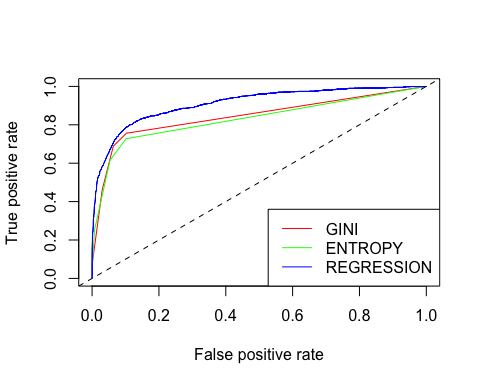
## Start: AIC=5958.47  
## TARGET\_BAD\_FLAG ~ 1  
##   
## Df Deviance AIC  
## + M\_DEBTINC 1 4431.3 4435.3  
## + IMP\_DELINQ 1 5411.8 5415.8  
## + M\_VALUE 1 5659.8 5663.8  
## + IMP\_DEROG 1 5689.5 5693.5  
## + IMP\_CLAGE 1 5771.5 5775.5  
## + IMP\_DEBTINC 1 5798.0 5802.0  
## + IMP\_NINQ 1 5807.6 5811.6  
## + LOAN 1 5919.8 5923.8  
## + FLAG.Job.Office 1 5921.4 5925.4  
## + M\_DEROG 1 5923.8 5927.8  
## + FLAG.Job.Other 1 5930.4 5934.4  
## + M\_DELINQ 1 5931.2 5935.2  
## + M\_YOJ 1 5935.5 5939.5  
## + IMP\_YOJ 1 5938.5 5942.5  
## + FLAG.Job.Sales 1 5943.0 5947.0  
## + IMP\_MORTDUE 1 5943.1 5947.1  
## + FLAG.Job.ProfExe 1 5944.8 5948.8  
## + FLAG.Job.Self 1 5945.0 5949.0  
## + M\_NINQ 1 5946.2 5950.2  
## + IMP\_VALUE 1 5948.0 5952.0  
## + FLAG.Reason.HomeImp 1 5948.2 5952.2  
## + FLAG.Reason.DebtCon 1 5949.6 5953.6  
## + FLAG.Job.Mgr 1 5950.4 5954.4  
## + M\_CLAGE 1 5950.9 5954.9  
## + M\_CLNO 1 5954.3 5958.3  
## <none> 5956.5 5958.5  
## + IMP\_CLNO 1 5956.3 5960.3  
## + M\_MORTDUE 1 5956.4 5960.4  
##   
## Step: AIC=4435.29  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC  
##   
## Df Deviance AIC  
## + IMP\_DELINQ 1 4134.4 4140.4  
## + IMP\_DEBTINC 1 4263.3 4269.3  
## + M\_VALUE 1 4265.9 4271.9  
## + IMP\_DEROG 1 4289.6 4295.6  
## + IMP\_CLAGE 1 4300.3 4306.3  
## + IMP\_NINQ 1 4371.4 4377.4  
## + M\_DEROG 1 4401.3 4407.3  
## + FLAG.Job.Office 1 4409.9 4415.9  
## + M\_DELINQ 1 4409.9 4415.9  
## + IMP\_YOJ 1 4412.0 4418.0  
## + FLAG.Job.Other 1 4412.3 4418.3  
## + M\_YOJ 1 4417.6 4423.6  
## + FLAG.Job.Sales 1 4419.9 4425.9  
## + FLAG.Job.ProfExe 1 4421.6 4427.6  
## + FLAG.Job.Self 1 4422.8 4428.8  
## + M\_NINQ 1 4423.8 4429.8  
## + FLAG.Reason.HomeImp 1 4427.4 4433.4  
## + FLAG.Job.Mgr 1 4427.8 4433.8  
## + LOAN 1 4428.4 4434.4  
## + FLAG.Reason.DebtCon 1 4428.7 4434.7  
## <none> 4431.3 4435.3  
## + M\_CLAGE 1 4429.4 4435.4  
## + IMP\_MORTDUE 1 4430.0 4436.0  
## + IMP\_CLNO 1 4430.8 4436.8  
## + M\_CLNO 1 4431.0 4437.0  
## + IMP\_VALUE 1 4431.0 4437.0  
## + M\_MORTDUE 1 4431.3 4437.3  
##   
## Step: AIC=4140.38  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ  
##   
## Df Deviance AIC  
## + IMP\_CLAGE 1 3970.7 3978.7  
## + IMP\_DEBTINC 1 3972.8 3980.8  
## + M\_VALUE 1 4010.8 4018.8  
## + M\_DEROG 1 4040.9 4048.9  
## + IMP\_DEROG 1 4061.8 4069.8  
## + IMP\_NINQ 1 4080.3 4088.3  
## + M\_DELINQ 1 4092.3 4100.3  
## + IMP\_YOJ 1 4105.9 4113.9  
## + FLAG.Job.Other 1 4107.8 4115.8  
## + FLAG.Job.Office 1 4109.3 4117.3  
## + M\_NINQ 1 4110.3 4118.3  
## + FLAG.Job.Sales 1 4117.7 4125.7  
## + IMP\_CLNO 1 4118.9 4126.9  
## + M\_YOJ 1 4120.1 4128.1  
## + FLAG.Job.Self 1 4126.0 4134.0  
## + FLAG.Job.ProfExe 1 4126.2 4134.2  
## + FLAG.Reason.HomeImp 1 4129.5 4137.5  
## + LOAN 1 4132.4 4140.4  
## <none> 4134.4 4140.4  
## + IMP\_MORTDUE 1 4132.4 4140.4  
## + FLAG.Reason.DebtCon 1 4132.8 4140.8  
## + M\_CLAGE 1 4133.3 4141.3  
## + FLAG.Job.Mgr 1 4133.8 4141.8  
## + M\_CLNO 1 4134.0 4142.0  
## + IMP\_VALUE 1 4134.3 4142.3  
## + M\_MORTDUE 1 4134.3 4142.3  
##   
## Step: AIC=3978.67  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE  
##   
## Df Deviance AIC  
## + IMP\_DEBTINC 1 3818.2 3828.2  
## + M\_VALUE 1 3849.9 3859.9  
## + M\_DEROG 1 3884.9 3894.9  
## + IMP\_DEROG 1 3911.2 3921.2  
## + M\_DELINQ 1 3923.8 3933.8  
## + IMP\_NINQ 1 3933.8 3943.8  
## + FLAG.Job.Office 1 3946.5 3956.5  
## + M\_NINQ 1 3946.9 3956.9  
## + FLAG.Job.Sales 1 3951.0 3961.0  
## + FLAG.Job.Other 1 3954.3 3964.3  
## + M\_YOJ 1 3960.3 3970.3  
## + IMP\_YOJ 1 3961.5 3971.5  
## + FLAG.Job.Self 1 3963.3 3973.3  
## + FLAG.Reason.HomeImp 1 3965.2 3975.2  
## + IMP\_VALUE 1 3965.4 3975.4  
## + FLAG.Reason.DebtCon 1 3967.8 3977.8  
## <none> 3970.7 3978.7  
## + M\_CLAGE 1 3968.9 3978.9  
## + FLAG.Job.ProfExe 1 3969.3 3979.3  
## + IMP\_MORTDUE 1 3970.2 3980.2  
## + FLAG.Job.Mgr 1 3970.5 3980.5  
## + M\_CLNO 1 3970.5 3980.5  
## + M\_MORTDUE 1 3970.5 3980.5  
## + IMP\_CLNO 1 3970.5 3980.5  
## + LOAN 1 3970.7 3980.7  
##   
## Step: AIC=3828.24  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC  
##   
## Df Deviance AIC  
## + M\_VALUE 1 3676.5 3688.5  
## + M\_DEROG 1 3731.6 3743.6  
## + IMP\_DEROG 1 3759.6 3771.6  
## + M\_DELINQ 1 3780.3 3792.3  
## + FLAG.Job.Office 1 3789.3 3801.3  
## + IMP\_NINQ 1 3791.3 3803.3  
## + FLAG.Job.Other 1 3802.8 3814.8  
## + FLAG.Job.Sales 1 3803.6 3815.6  
## + M\_NINQ 1 3805.6 3817.6  
## + M\_YOJ 1 3809.7 3821.7  
## + FLAG.Reason.HomeImp 1 3812.1 3824.1  
## + M\_CLAGE 1 3812.2 3824.2  
## + IMP\_YOJ 1 3812.5 3824.5  
## + FLAG.Job.Self 1 3812.8 3824.8  
## + FLAG.Reason.DebtCon 1 3813.7 3825.7  
## + IMP\_CLNO 1 3814.2 3826.2  
## <none> 3818.2 3828.2  
## + M\_MORTDUE 1 3816.5 3828.5  
## + IMP\_VALUE 1 3816.7 3828.7  
## + LOAN 1 3817.4 3829.4  
## + IMP\_MORTDUE 1 3818.0 3830.0  
## + FLAG.Job.ProfExe 1 3818.0 3830.0  
## + M\_CLNO 1 3818.1 3830.1  
## + FLAG.Job.Mgr 1 3818.2 3830.2  
##   
## Step: AIC=3688.49  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE  
##   
## Df Deviance AIC  
## + M\_DEROG 1 3569.9 3583.9  
## + M\_DELINQ 1 3624.3 3638.3  
## + IMP\_DEROG 1 3625.7 3639.7  
## + IMP\_NINQ 1 3647.4 3661.4  
## + FLAG.Job.Office 1 3647.8 3661.8  
## + M\_NINQ 1 3658.2 3672.2  
## + FLAG.Job.Other 1 3658.3 3672.3  
## + FLAG.Job.Sales 1 3660.8 3674.8  
## + M\_YOJ 1 3664.9 3678.9  
## + FLAG.Reason.HomeImp 1 3669.4 3683.4  
## + IMP\_YOJ 1 3669.7 3683.7  
## + FLAG.Job.Self 1 3671.6 3685.6  
## + IMP\_CLNO 1 3672.8 3686.8  
## + FLAG.Reason.DebtCon 1 3673.6 3687.6  
## + IMP\_VALUE 1 3674.3 3688.3  
## <none> 3676.5 3688.5  
## + M\_CLAGE 1 3674.5 3688.5  
## + LOAN 1 3674.6 3688.6  
## + M\_CLNO 1 3675.7 3689.7  
## + IMP\_MORTDUE 1 3676.0 3690.0  
## + FLAG.Job.ProfExe 1 3676.4 3690.4  
## + FLAG.Job.Mgr 1 3676.5 3690.5  
## + M\_MORTDUE 1 3676.5 3690.5  
##   
## Step: AIC=3583.94  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG  
##   
## Df Deviance AIC  
## + IMP\_DEROG 1 3482.7 3498.7  
## + M\_CLAGE 1 3511.6 3527.6  
## + M\_CLNO 1 3524.8 3540.8  
## + IMP\_NINQ 1 3534.5 3550.5  
## + FLAG.Job.Office 1 3537.5 3553.5  
## + FLAG.Job.Sales 1 3553.8 3569.8  
## + FLAG.Job.Other 1 3554.8 3570.8  
## + IMP\_YOJ 1 3560.8 3576.8  
## + IMP\_CLNO 1 3564.2 3580.2  
## + M\_NINQ 1 3564.3 3580.3  
## + FLAG.Reason.HomeImp 1 3564.8 3580.8  
## + M\_MORTDUE 1 3566.0 3582.0  
## + LOAN 1 3566.0 3582.0  
## + FLAG.Reason.DebtCon 1 3566.5 3582.5  
## + FLAG.Job.Self 1 3566.6 3582.6  
## + M\_YOJ 1 3567.5 3583.5  
## <none> 3569.9 3583.9  
## + IMP\_VALUE 1 3568.3 3584.3  
## + FLAG.Job.ProfExe 1 3569.0 3585.0  
## + IMP\_MORTDUE 1 3569.6 3585.6  
## + FLAG.Job.Mgr 1 3569.7 3585.7  
## + M\_DELINQ 1 3569.8 3585.8  
##   
## Step: AIC=3498.73  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG  
##   
## Df Deviance AIC  
## + M\_CLAGE 1 3428.4 3446.4  
## + M\_CLNO 1 3439.7 3457.7  
## + FLAG.Job.Office 1 3454.1 3472.1  
## + IMP\_NINQ 1 3459.5 3477.5  
## + FLAG.Job.Other 1 3469.8 3487.8  
## + FLAG.Job.Sales 1 3470.1 3488.1  
## + IMP\_CLNO 1 3473.2 3491.2  
## + FLAG.Reason.HomeImp 1 3476.0 3494.0  
## + M\_YOJ 1 3476.5 3494.5  
## + IMP\_YOJ 1 3476.6 3494.6  
## + LOAN 1 3477.2 3495.2  
## + FLAG.Reason.DebtCon 1 3478.3 3496.3  
## + FLAG.Job.Self 1 3478.3 3496.3  
## + IMP\_VALUE 1 3480.2 3498.2  
## <none> 3482.7 3498.7  
## + M\_MORTDUE 1 3481.0 3499.0  
## + M\_DELINQ 1 3481.3 3499.3  
## + M\_NINQ 1 3481.9 3499.9  
## + FLAG.Job.ProfExe 1 3482.1 3500.1  
## + FLAG.Job.Mgr 1 3482.6 3500.6  
## + IMP\_MORTDUE 1 3482.6 3500.6  
##   
## Step: AIC=3446.38  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE  
##   
## Df Deviance AIC  
## + IMP\_NINQ 1 3402.2 3422.2  
## + FLAG.Job.Office 1 3403.0 3423.0  
## + FLAG.Job.Sales 1 3413.3 3433.3  
## + M\_YOJ 1 3414.4 3434.4  
## + M\_DELINQ 1 3416.0 3436.0  
## + FLAG.Job.Other 1 3416.6 3436.6  
## + FLAG.Reason.HomeImp 1 3422.1 3442.1  
## + LOAN 1 3423.7 3443.7  
## + IMP\_YOJ 1 3424.0 3444.0  
## + FLAG.Job.Self 1 3424.1 3444.1  
## + M\_NINQ 1 3424.8 3444.8  
## + IMP\_VALUE 1 3424.9 3444.9  
## + M\_CLNO 1 3425.1 3445.1  
## + IMP\_CLNO 1 3425.1 3445.1  
## + FLAG.Reason.DebtCon 1 3426.0 3446.0  
## <none> 3428.4 3446.4  
## + FLAG.Job.Mgr 1 3427.8 3447.8  
## + M\_MORTDUE 1 3428.1 3448.1  
## + FLAG.Job.ProfExe 1 3428.2 3448.2  
## + IMP\_MORTDUE 1 3428.4 3448.4  
##   
## Step: AIC=3422.25  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ  
##   
## Df Deviance AIC  
## + FLAG.Job.Office 1 3379.3 3401.3  
## + FLAG.Job.Sales 1 3385.1 3407.1  
## + M\_YOJ 1 3388.7 3410.7  
## + M\_DELINQ 1 3391.9 3413.9  
## + FLAG.Reason.HomeImp 1 3392.0 3414.0  
## + FLAG.Job.Other 1 3392.1 3414.1  
## + LOAN 1 3395.0 3417.0  
## + M\_CLNO 1 3396.9 3418.9  
## + FLAG.Reason.DebtCon 1 3397.2 3419.2  
## + IMP\_CLNO 1 3397.4 3419.4  
## + FLAG.Job.Self 1 3398.2 3420.2  
## + IMP\_YOJ 1 3398.5 3420.5  
## + IMP\_VALUE 1 3398.7 3420.7  
## <none> 3402.2 3422.2  
## + M\_NINQ 1 3400.5 3422.5  
## + M\_MORTDUE 1 3401.5 3423.5  
## + FLAG.Job.Mgr 1 3402.0 3424.0  
## + IMP\_MORTDUE 1 3402.1 3424.1  
## + FLAG.Job.ProfExe 1 3402.2 3424.2  
##   
## Step: AIC=3401.27  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office  
##   
## Df Deviance AIC  
## + M\_YOJ 1 3362.7 3386.7  
## + FLAG.Job.Sales 1 3364.5 3388.5  
## + M\_DELINQ 1 3368.4 3392.4  
## + FLAG.Reason.HomeImp 1 3369.6 3393.6  
## + LOAN 1 3372.2 3396.2  
## + IMP\_CLNO 1 3373.7 3397.7  
## + M\_CLNO 1 3374.2 3398.2  
## + FLAG.Reason.DebtCon 1 3374.7 3398.7  
## + IMP\_YOJ 1 3375.0 3399.0  
## + IMP\_VALUE 1 3376.6 3400.6  
## + FLAG.Job.Self 1 3376.6 3400.6  
## + M\_NINQ 1 3376.8 3400.8  
## + FLAG.Job.Other 1 3376.9 3400.9  
## <none> 3379.3 3401.3  
## + FLAG.Job.ProfExe 1 3377.7 3401.7  
## + M\_MORTDUE 1 3378.3 3402.3  
## + IMP\_MORTDUE 1 3378.8 3402.8  
## + FLAG.Job.Mgr 1 3379.1 3403.1  
##   
## Step: AIC=3386.68  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ  
##   
## Df Deviance AIC  
## + FLAG.Job.Sales 1 3347.2 3373.2  
## + FLAG.Reason.HomeImp 1 3354.6 3380.6  
## + IMP\_CLNO 1 3355.2 3381.2  
## + M\_DELINQ 1 3355.2 3381.2  
## + M\_CLNO 1 3356.3 3382.3  
## + LOAN 1 3357.3 3383.3  
## + IMP\_YOJ 1 3357.7 3383.7  
## + FLAG.Reason.DebtCon 1 3358.2 3384.2  
## + FLAG.Job.Other 1 3358.4 3384.4  
## + M\_MORTDUE 1 3358.8 3384.8  
## + FLAG.Job.ProfExe 1 3359.3 3385.3  
## + FLAG.Job.Self 1 3360.1 3386.1  
## <none> 3362.7 3386.7  
## + IMP\_VALUE 1 3360.9 3386.9  
## + IMP\_MORTDUE 1 3361.6 3387.6  
## + M\_NINQ 1 3362.1 3388.1  
## + FLAG.Job.Mgr 1 3362.2 3388.2  
##   
## Step: AIC=3373.21  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales  
##   
## Df Deviance AIC  
## + FLAG.Reason.HomeImp 1 3338.2 3366.2  
## + IMP\_CLNO 1 3338.4 3366.4  
## + FLAG.Job.Other 1 3339.6 3367.6  
## + M\_DELINQ 1 3340.1 3368.1  
## + M\_CLNO 1 3340.5 3368.5  
## + FLAG.Reason.DebtCon 1 3341.9 3369.9  
## + IMP\_YOJ 1 3342.9 3370.9  
## + M\_MORTDUE 1 3343.0 3371.0  
## + LOAN 1 3343.1 3371.1  
## + FLAG.Job.Self 1 3344.2 3372.2  
## + FLAG.Job.ProfExe 1 3345.1 3373.1  
## <none> 3347.2 3373.2  
## + IMP\_VALUE 1 3345.5 3373.5  
## + IMP\_MORTDUE 1 3345.9 3373.9  
## + M\_NINQ 1 3346.9 3374.9  
## + FLAG.Job.Mgr 1 3347.0 3375.0  
##   
## Step: AIC=3366.16  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp  
##   
## Df Deviance AIC  
## + M\_DELINQ 1 3330.3 3360.3  
## + FLAG.Job.Other 1 3330.8 3360.8  
## + IMP\_CLNO 1 3331.7 3361.7  
## + M\_CLNO 1 3332.4 3362.4  
## + IMP\_YOJ 1 3333.8 3363.8  
## + M\_MORTDUE 1 3335.4 3365.4  
## + LOAN 1 3335.7 3365.7  
## + FLAG.Reason.DebtCon 1 3336.0 3366.0  
## + FLAG.Job.ProfExe 1 3336.1 3366.1  
## + FLAG.Job.Self 1 3336.1 3366.1  
## <none> 3338.2 3366.2  
## + IMP\_VALUE 1 3336.5 3366.5  
## + IMP\_MORTDUE 1 3337.1 3367.1  
## + M\_NINQ 1 3337.6 3367.6  
## + FLAG.Job.Mgr 1 3338.1 3368.1  
##   
## Step: AIC=3360.32  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp + M\_DELINQ  
##   
## Df Deviance AIC  
## + M\_CLNO 1 3314.5 3346.5  
## + FLAG.Job.Other 1 3322.6 3354.6  
## + IMP\_CLNO 1 3324.7 3356.7  
## + IMP\_YOJ 1 3325.5 3357.5  
## + M\_MORTDUE 1 3325.9 3357.9  
## + FLAG.Job.Self 1 3327.9 3359.9  
## + FLAG.Job.ProfExe 1 3328.1 3360.1  
## + LOAN 1 3328.3 3360.3  
## <none> 3330.3 3360.3  
## + FLAG.Reason.DebtCon 1 3328.3 3360.3  
## + IMP\_VALUE 1 3328.8 3360.8  
## + M\_NINQ 1 3329.1 3361.1  
## + IMP\_MORTDUE 1 3329.3 3361.3  
## + FLAG.Job.Mgr 1 3330.2 3362.2  
##   
## Step: AIC=3346.53  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp + M\_DELINQ +   
## M\_CLNO  
##   
## Df Deviance AIC  
## + IMP\_CLNO 1 3304.2 3338.2  
## + FLAG.Job.Other 1 3304.5 3338.5  
## + IMP\_YOJ 1 3309.3 3343.3  
## + M\_MORTDUE 1 3310.1 3344.1  
## + FLAG.Reason.DebtCon 1 3311.4 3345.4  
## + FLAG.Job.ProfExe 1 3311.8 3345.8  
## + FLAG.Job.Self 1 3312.0 3346.0  
## <none> 3314.5 3346.5  
## + IMP\_VALUE 1 3312.9 3346.9  
## + LOAN 1 3313.4 3347.4  
## + IMP\_MORTDUE 1 3313.7 3347.7  
## + FLAG.Job.Mgr 1 3314.4 3348.4  
## + M\_NINQ 1 3314.5 3348.5  
##   
## Step: AIC=3338.24  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp + M\_DELINQ +   
## M\_CLNO + IMP\_CLNO  
##   
## Df Deviance AIC  
## + FLAG.Job.Other 1 3297.2 3333.2  
## + IMP\_YOJ 1 3298.8 3334.8  
## + IMP\_VALUE 1 3300.7 3336.7  
## + FLAG.Reason.DebtCon 1 3301.1 3337.1  
## + FLAG.Job.Self 1 3301.2 3337.2  
## + M\_MORTDUE 1 3301.4 3337.4  
## <none> 3304.2 3338.2  
## + FLAG.Job.ProfExe 1 3302.9 3338.9  
## + LOAN 1 3303.6 3339.6  
## + M\_NINQ 1 3304.2 3340.2  
## + FLAG.Job.Mgr 1 3304.2 3340.2  
## + IMP\_MORTDUE 1 3304.2 3340.2  
##   
## Step: AIC=3333.16  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp + M\_DELINQ +   
## M\_CLNO + IMP\_CLNO + FLAG.Job.Other  
##   
## Df Deviance AIC  
## + IMP\_VALUE 1 3291.2 3329.2  
## + IMP\_YOJ 1 3291.4 3329.4  
## + FLAG.Job.Self 1 3291.4 3329.4  
## + M\_MORTDUE 1 3294.7 3332.7  
## + FLAG.Reason.DebtCon 1 3294.9 3332.9  
## <none> 3297.2 3333.2  
## + FLAG.Job.Mgr 1 3295.6 3333.6  
## + IMP\_MORTDUE 1 3296.8 3334.8  
## + LOAN 1 3296.8 3334.8  
## + FLAG.Job.ProfExe 1 3297.0 3335.0  
## + M\_NINQ 1 3297.1 3335.1  
##   
## Step: AIC=3329.21  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp + M\_DELINQ +   
## M\_CLNO + IMP\_CLNO + FLAG.Job.Other + IMP\_VALUE  
##   
## Df Deviance AIC  
## + IMP\_YOJ 1 3285.1 3325.1  
## + FLAG.Job.Self 1 3286.3 3326.3  
## + M\_MORTDUE 1 3288.5 3328.5  
## + IMP\_MORTDUE 1 3288.9 3328.9  
## + LOAN 1 3288.9 3328.9  
## + FLAG.Job.Mgr 1 3289.0 3329.0  
## + FLAG.Reason.DebtCon 1 3289.1 3329.1  
## <none> 3291.2 3329.2  
## + M\_NINQ 1 3291.2 3331.2  
## + FLAG.Job.ProfExe 1 3291.2 3331.2  
##   
## Step: AIC=3325.11  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp + M\_DELINQ +   
## M\_CLNO + IMP\_CLNO + FLAG.Job.Other + IMP\_VALUE + IMP\_YOJ  
##   
## Df Deviance AIC  
## + FLAG.Job.Self 1 3280.6 3322.6  
## + IMP\_MORTDUE 1 3281.7 3323.7  
## + M\_MORTDUE 1 3282.4 3324.4  
## + FLAG.Job.Mgr 1 3282.5 3324.5  
## <none> 3285.1 3325.1  
## + FLAG.Reason.DebtCon 1 3283.1 3325.1  
## + LOAN 1 3283.6 3325.6  
## + M\_NINQ 1 3285.1 3327.1  
## + FLAG.Job.ProfExe 1 3285.1 3327.1  
##   
## Step: AIC=3322.64  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp + M\_DELINQ +   
## M\_CLNO + IMP\_CLNO + FLAG.Job.Other + IMP\_VALUE + IMP\_YOJ +   
## FLAG.Job.Self  
##   
## Df Deviance AIC  
## + FLAG.Job.Mgr 1 3276.0 3320.0  
## + IMP\_MORTDUE 1 3277.4 3321.4  
## + M\_MORTDUE 1 3277.9 3321.9  
## + LOAN 1 3278.3 3322.3  
## <none> 3280.6 3322.6  
## + FLAG.Reason.DebtCon 1 3278.7 3322.7  
## + FLAG.Job.ProfExe 1 3280.0 3324.0  
## + M\_NINQ 1 3280.5 3324.5  
##   
## Step: AIC=3319.97  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp + M\_DELINQ +   
## M\_CLNO + IMP\_CLNO + FLAG.Job.Other + IMP\_VALUE + IMP\_YOJ +   
## FLAG.Job.Self + FLAG.Job.Mgr  
##   
## Df Deviance AIC  
## + FLAG.Job.ProfExe 1 3245.9 3291.9  
## + IMP\_MORTDUE 1 3272.8 3318.8  
## + M\_MORTDUE 1 3273.2 3319.2  
## + LOAN 1 3273.5 3319.5  
## <none> 3276.0 3320.0  
## + FLAG.Reason.DebtCon 1 3274.3 3320.3  
## + M\_NINQ 1 3275.9 3321.9  
##   
## Step: AIC=3291.89  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp + M\_DELINQ +   
## M\_CLNO + IMP\_CLNO + FLAG.Job.Other + IMP\_VALUE + IMP\_YOJ +   
## FLAG.Job.Self + FLAG.Job.Mgr + FLAG.Job.ProfExe  
##   
## Df Deviance AIC  
## + M\_MORTDUE 1 3240.7 3288.7  
## + IMP\_MORTDUE 1 3242.2 3290.2  
## + LOAN 1 3243.9 3291.9  
## <none> 3245.9 3291.9  
## + M\_NINQ 1 3245.8 3293.8  
## + FLAG.Reason.DebtCon 1 3245.9 3293.9  
##   
## Step: AIC=3288.73  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp + M\_DELINQ +   
## M\_CLNO + IMP\_CLNO + FLAG.Job.Other + IMP\_VALUE + IMP\_YOJ +   
## FLAG.Job.Self + FLAG.Job.Mgr + FLAG.Job.ProfExe + M\_MORTDUE  
##   
## Df Deviance AIC  
## + IMP\_MORTDUE 1 3236.3 3286.3  
## + LOAN 1 3238.1 3288.1  
## <none> 3240.7 3288.7  
## + M\_NINQ 1 3240.6 3290.6  
## + FLAG.Reason.DebtCon 1 3240.7 3290.7  
##   
## Step: AIC=3286.25  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp + M\_DELINQ +   
## M\_CLNO + IMP\_CLNO + FLAG.Job.Other + IMP\_VALUE + IMP\_YOJ +   
## FLAG.Job.Self + FLAG.Job.Mgr + FLAG.Job.ProfExe + M\_MORTDUE +   
## IMP\_MORTDUE  
##   
## Df Deviance AIC  
## + LOAN 1 3233.5 3285.5  
## <none> 3236.3 3286.3  
## + M\_NINQ 1 3236.1 3288.1  
## + FLAG.Reason.DebtCon 1 3236.2 3288.2  
##   
## Step: AIC=3285.51  
## TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE + IMP\_DEBTINC +   
## M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ + FLAG.Job.Office +   
## M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp + M\_DELINQ +   
## M\_CLNO + IMP\_CLNO + FLAG.Job.Other + IMP\_VALUE + IMP\_YOJ +   
## FLAG.Job.Self + FLAG.Job.Mgr + FLAG.Job.ProfExe + M\_MORTDUE +   
## IMP\_MORTDUE + LOAN  
##   
## Df Deviance AIC  
## <none> 3233.5 3285.5  
## + M\_NINQ 1 3233.4 3287.4  
## + FLAG.Reason.DebtCon 1 3233.5 3287.5

summary( lr\_model )

##   
## Call:  
## glm(formula = TARGET\_BAD\_FLAG ~ M\_DEBTINC + IMP\_DELINQ + IMP\_CLAGE +   
## IMP\_DEBTINC + M\_VALUE + M\_DEROG + IMP\_DEROG + M\_CLAGE + IMP\_NINQ +   
## FLAG.Job.Office + M\_YOJ + FLAG.Job.Sales + FLAG.Reason.HomeImp +   
## M\_DELINQ + M\_CLNO + IMP\_CLNO + FLAG.Job.Other + IMP\_VALUE +   
## IMP\_YOJ + FLAG.Job.Self + FLAG.Job.Mgr + FLAG.Job.ProfExe +   
## M\_MORTDUE + IMP\_MORTDUE + LOAN, family = "binomial", data = df\_model)  
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -7.198e+00 5.281e-01 -13.630 < 2e-16 \*\*\*  
## M\_DEBTINC 2.669e+00 9.539e-02 27.977 < 2e-16 \*\*\*  
## IMP\_DELINQ 7.989e-01 5.252e-02 15.210 < 2e-16 \*\*\*  
## IMP\_CLAGE -5.975e-03 6.789e-04 -8.801 < 2e-16 \*\*\*  
## IMP\_DEBTINC 9.445e-02 8.761e-03 10.780 < 2e-16 \*\*\*  
## M\_VALUE 5.164e+00 5.305e-01 9.735 < 2e-16 \*\*\*  
## M\_DEROG -2.546e+00 2.980e-01 -8.545 < 2e-16 \*\*\*  
## IMP\_DEROG 5.195e-01 6.212e-02 8.362 < 2e-16 \*\*\*  
## M\_CLAGE 1.111e+00 3.429e-01 3.241 0.001192 \*\*   
## IMP\_NINQ 1.459e-01 2.609e-02 5.592 2.25e-08 \*\*\*  
## FLAG.Job.Office 1.569e+00 4.188e-01 3.747 0.000179 \*\*\*  
## M\_YOJ -6.297e-01 1.952e-01 -3.226 0.001256 \*\*   
## FLAG.Job.Sales 3.443e+00 4.886e-01 7.046 1.84e-12 \*\*\*  
## FLAG.Reason.HomeImp 1.215e-01 1.050e-01 1.157 0.247415   
## M\_DELINQ -1.675e+00 3.763e-01 -4.452 8.51e-06 \*\*\*  
## M\_CLNO 3.166e+00 6.001e-01 5.276 1.32e-07 \*\*\*  
## IMP\_CLNO -1.304e-02 5.329e-03 -2.447 0.014408 \*   
## FLAG.Job.Other 2.354e+00 4.020e-01 5.855 4.76e-09 \*\*\*  
## IMP\_VALUE 3.951e-06 1.243e-06 3.178 0.001485 \*\*   
## IMP\_YOJ -1.636e-02 6.894e-03 -2.372 0.017672 \*   
## FLAG.Job.Self 2.653e+00 4.702e-01 5.642 1.68e-08 \*\*\*  
## FLAG.Job.Mgr 2.256e+00 4.173e-01 5.407 6.41e-08 \*\*\*  
## FLAG.Job.ProfExe 2.117e+00 4.145e-01 5.108 3.26e-07 \*\*\*  
## M\_MORTDUE 5.247e-01 2.027e-01 2.589 0.009616 \*\*   
## IMP\_MORTDUE -3.596e-06 1.728e-06 -2.080 0.037498 \*   
## LOAN -7.897e-06 4.827e-06 -1.636 0.101864   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 5956.5 on 5959 degrees of freedom  
## Residual deviance: 3233.5 on 5934 degrees of freedom  
## AIC: 3285.5  
##   
## Number of Fisher Scoring iterations: 6

#Create a ROC curve showing the accuracy of the model. #Calculate and display the Area Under the ROC Curve (AUC).

#ROC curve  
pG = predict( t1G, df\_model )  
pG2 = prediction( pG[,2], df\_model$TARGET\_BAD\_FLAG )  
pG3 = performance( pG2, "tpr", "fpr" )  
  
pE = predict( t1E, df\_model )  
pE2 = prediction( pE[,2], df\_model$TARGET\_BAD\_FLAG )  
pE3 = performance( pE2, "tpr", "fpr" )  
  
plr = predict( lr\_model, df\_model, type="response" )  
plr2 = prediction( plr, df\_model$TARGET\_BAD\_FLAG )  
plr3 = performance( plr2, "tpr", "fpr" )  
G = predict( t1G, df\_model )  
pG2 = prediction( pG[,2], df\_model$TARGET\_BAD\_FLAG )  
pG3 = performance( pG2, "tpr", "fpr" )  
  
pE = predict( t1E, df\_model )  
pE2 = prediction( pE[,2], df\_model$TARGET\_BAD\_FLAG )  
pE3 = performance( pE2, "tpr", "fpr" )  
  
plr = predict( lr\_model, df\_model, type="response" )  
plr2 = prediction( plr, df\_model$TARGET\_BAD\_FLAG )  
plr3 = performance( plr2, "tpr", "fpr" )  
  
plot( pG3, col="red" )  
plot( pE3, col="green", add=TRUE )  
plot( plr3, col="blue", add=TRUE )  
abline(0,1,lty=2)  
legend("bottomright",c("GINI","ENTROPY","REGRESSION"),col=c("red","green","blue"), bty="y", lty=1 )



aucG = performance( pG2, "auc" )@y.values  
aucE = performance( pE2, "auc" )@y.values  
aucR = performance( plr2, "auc" )@y.values  
  
print( aucG )

## [[1]]  
## [1] 0.8433084

print( aucE )

## [[1]]  
## [1] 0.8293732

print( aucR )

## [[1]]  
## [1] 0.9105166

Step 5: Tree and Regression Analysis on the PCA/tSNE Data

df\_model = df  
df\_model$TARGET\_CLM\_AMT = NULL  
  
head(df\_model)

## TARGET\_BAD\_FLAG TARGET\_LOSS\_AMT LOAN IMP\_MORTDUE M\_MORTDUE IMP\_VALUE M\_VALUE  
## 1 1 641 1100 25860 0 39025 0  
## 2 1 1109 1300 70053 0 68400 0  
## 3 1 767 1500 13500 0 16700 0  
## 4 1 1425 1500 65000 1 89000 1  
## 5 0 0 1700 97800 0 112000 0  
## 6 1 335 1700 30548 0 40320 0  
## IMP\_YOJ M\_YOJ IMP\_DEROG M\_DEROG IMP\_DELINQ M\_DELINQ IMP\_CLAGE M\_CLAGE  
## 1 10.5 0 0 0 0 0 94.36667 0  
## 2 7.0 0 0 0 2 0 121.83333 0  
## 3 4.0 0 0 0 0 0 149.46667 0  
## 4 7.0 1 1 1 1 1 174.00000 1  
## 5 3.0 0 0 0 0 0 93.33333 0  
## 6 9.0 0 0 0 0 0 101.46600 0  
## IMP\_NINQ M\_NINQ IMP\_CLNO M\_CLNO IMP\_DEBTINC M\_DEBTINC FLAG.Job.Mgr  
## 1 1 0 9 0 35.00000 1 0  
## 2 0 0 14 0 35.00000 1 0  
## 3 1 0 10 0 35.00000 1 0  
## 4 1 1 20 1 35.00000 1 0  
## 5 0 0 14 0 35.00000 1 0  
## 6 1 0 8 0 37.11361 0 0  
## FLAG.Job.Office FLAG.Job.Other FLAG.Job.ProfExe FLAG.Job.Sales FLAG.Job.Self  
## 1 0 1 0 0 0  
## 2 0 1 0 0 0  
## 3 0 1 0 0 0  
## 4 0 0 0 0 0  
## 5 1 0 0 0 0  
## 6 0 1 0 0 0  
## FLAG.Reason.DebtCon FLAG.Reason.HomeImp  
## 1 0 1  
## 2 0 1  
## 3 0 1  
## 4 0 0  
## 5 0 1  
## 6 0 1

#Append the Principal Component values from Step 2 to your data set.

df\_model$PC1 = df\_new[,"PC1"]  
df\_model$PC2 = df\_new[,"PC2"]  
df\_model$PC3 = df\_new[,"PC3"]  
df\_model$PC4 = df\_new[,"PC4"]  
head(df\_model)

## TARGET\_BAD\_FLAG TARGET\_LOSS\_AMT LOAN IMP\_MORTDUE M\_MORTDUE IMP\_VALUE M\_VALUE  
## 1 1 641 1100 25860 0 39025 0  
## 2 1 1109 1300 70053 0 68400 0  
## 3 1 767 1500 13500 0 16700 0  
## 4 1 1425 1500 65000 1 89000 1  
## 5 0 0 1700 97800 0 112000 0  
## 6 1 335 1700 30548 0 40320 0  
## IMP\_YOJ M\_YOJ IMP\_DEROG M\_DEROG IMP\_DELINQ M\_DELINQ IMP\_CLAGE M\_CLAGE  
## 1 10.5 0 0 0 0 0 94.36667 0  
## 2 7.0 0 0 0 2 0 121.83333 0  
## 3 4.0 0 0 0 0 0 149.46667 0  
## 4 7.0 1 1 1 1 1 174.00000 1  
## 5 3.0 0 0 0 0 0 93.33333 0  
## 6 9.0 0 0 0 0 0 101.46600 0  
## IMP\_NINQ M\_NINQ IMP\_CLNO M\_CLNO IMP\_DEBTINC M\_DEBTINC FLAG.Job.Mgr  
## 1 1 0 9 0 35.00000 1 0  
## 2 0 0 14 0 35.00000 1 0  
## 3 1 0 10 0 35.00000 1 0  
## 4 1 1 20 1 35.00000 1 0  
## 5 0 0 14 0 35.00000 1 0  
## 6 1 0 8 0 37.11361 0 0  
## FLAG.Job.Office FLAG.Job.Other FLAG.Job.ProfExe FLAG.Job.Sales FLAG.Job.Self  
## 1 0 1 0 0 0  
## 2 0 1 0 0 0  
## 3 0 1 0 0 0  
## 4 0 0 0 0 0  
## 5 1 0 0 0 0  
## 6 0 1 0 0 0  
## FLAG.Reason.DebtCon FLAG.Reason.HomeImp PC1 PC2 PC3  
## 1 0 1 0.4290662 2.5778401 -1.03855364  
## 2 0 1 0.3604417 1.3218033 -1.52485457  
## 3 0 1 0.3390211 2.7748917 -1.06629245  
## 4 0 0 -9.7215119 -0.1846459 -1.29779123  
## 5 0 1 0.6519367 0.7711290 -0.70211529  
## 6 0 1 0.5004836 2.3331760 0.04280713  
## PC4  
## 1 -0.4291936  
## 2 0.1037763  
## 3 -0.4861323  
## 4 1.6744433  
## 5 -1.1721582  
## 6 -0.8351715

Using the Random Forest models from Step 3, append the two tSNE values to the data set.

df\_model$TS1M\_RF = predict( ts1\_model\_rf, df\_model )  
df\_model$TS2M\_RF = predict( ts2\_model\_rf, df\_model )  
head(df\_model)

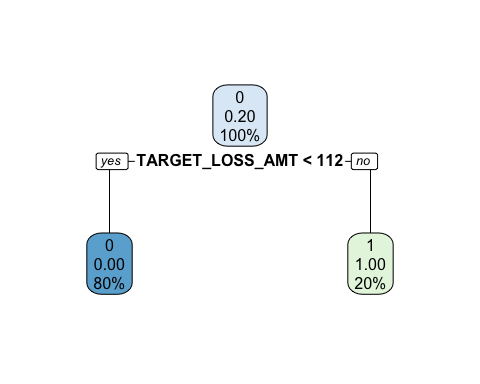
## TARGET\_BAD\_FLAG TARGET\_LOSS\_AMT LOAN IMP\_MORTDUE M\_MORTDUE IMP\_VALUE M\_VALUE  
## 1 1 641 1100 25860 0 39025 0  
## 2 1 1109 1300 70053 0 68400 0  
## 3 1 767 1500 13500 0 16700 0  
## 4 1 1425 1500 65000 1 89000 1  
## 5 0 0 1700 97800 0 112000 0  
## 6 1 335 1700 30548 0 40320 0  
## IMP\_YOJ M\_YOJ IMP\_DEROG M\_DEROG IMP\_DELINQ M\_DELINQ IMP\_CLAGE M\_CLAGE  
## 1 10.5 0 0 0 0 0 94.36667 0  
## 2 7.0 0 0 0 2 0 121.83333 0  
## 3 4.0 0 0 0 0 0 149.46667 0  
## 4 7.0 1 1 1 1 1 174.00000 1  
## 5 3.0 0 0 0 0 0 93.33333 0  
## 6 9.0 0 0 0 0 0 101.46600 0  
## IMP\_NINQ M\_NINQ IMP\_CLNO M\_CLNO IMP\_DEBTINC M\_DEBTINC FLAG.Job.Mgr  
## 1 1 0 9 0 35.00000 1 0  
## 2 0 0 14 0 35.00000 1 0  
## 3 1 0 10 0 35.00000 1 0  
## 4 1 1 20 1 35.00000 1 0  
## 5 0 0 14 0 35.00000 1 0  
## 6 1 0 8 0 37.11361 0 0  
## FLAG.Job.Office FLAG.Job.Other FLAG.Job.ProfExe FLAG.Job.Sales FLAG.Job.Self  
## 1 0 1 0 0 0  
## 2 0 1 0 0 0  
## 3 0 1 0 0 0  
## 4 0 0 0 0 0  
## 5 1 0 0 0 0  
## 6 0 1 0 0 0  
## FLAG.Reason.DebtCon FLAG.Reason.HomeImp PC1 PC2 PC3  
## 1 0 1 0.4290662 2.5778401 -1.03855364  
## 2 0 1 0.3604417 1.3218033 -1.52485457  
## 3 0 1 0.3390211 2.7748917 -1.06629245  
## 4 0 0 -9.7215119 -0.1846459 -1.29779123  
## 5 0 1 0.6519367 0.7711290 -0.70211529  
## 6 0 1 0.5004836 2.3331760 0.04280713  
## PC4 TS1M\_RF TS2M\_RF  
## 1 -0.4291936 23.354320 11.482992  
## 2 0.1037763 3.382064 -18.734151  
## 3 -0.4861323 21.482522 15.209839  
## 4 1.6744433 -2.276462 -13.219664  
## 5 -1.1721582 -23.956414 -2.717165  
## 6 -0.8351715 23.394600 10.122887

#remove the continous variables for PCA  
df\_model$LOAN = NULL  
df\_model$MORTDUE = NULL  
df\_model$VALUE = NULL  
df\_model$REASON = NULL  
df\_model$JOB = NULL  
df\_model$YOJ = NULL  
df\_model$DEROG = NULL  
df\_model$DELINQ = NULL  
df\_model$CLAGE = NULL  
df\_model$NINQ = NULL  
df\_model$CLNO = NULL  
df\_model$DEBTINC = NULL  
df\_model$IMP\_MORTDUE = NULL  
df\_model$IMP\_VALUE = NULL  
df\_model$IMP\_YOJ = NULL  
df\_model$IMP\_CLAGE = NULL  
df\_model$IMP\_CLNO = NULL  
df\_model$IMP\_DEBTINC = NULL  
  
  
head( df\_model )

## TARGET\_BAD\_FLAG TARGET\_LOSS\_AMT M\_MORTDUE M\_VALUE M\_YOJ IMP\_DEROG M\_DEROG  
## 1 1 641 0 0 0 0 0  
## 2 1 1109 0 0 0 0 0  
## 3 1 767 0 0 0 0 0  
## 4 1 1425 1 1 1 1 1  
## 5 0 0 0 0 0 0 0  
## 6 1 335 0 0 0 0 0  
## IMP\_DELINQ M\_DELINQ M\_CLAGE IMP\_NINQ M\_NINQ M\_CLNO M\_DEBTINC FLAG.Job.Mgr  
## 1 0 0 0 1 0 0 1 0  
## 2 2 0 0 0 0 0 1 0  
## 3 0 0 0 1 0 0 1 0  
## 4 1 1 1 1 1 1 1 0  
## 5 0 0 0 0 0 0 1 0  
## 6 0 0 0 1 0 0 0 0  
## FLAG.Job.Office FLAG.Job.Other FLAG.Job.ProfExe FLAG.Job.Sales FLAG.Job.Self  
## 1 0 1 0 0 0  
## 2 0 1 0 0 0  
## 3 0 1 0 0 0  
## 4 0 0 0 0 0  
## 5 1 0 0 0 0  
## 6 0 1 0 0 0  
## FLAG.Reason.DebtCon FLAG.Reason.HomeImp PC1 PC2 PC3  
## 1 0 1 0.4290662 2.5778401 -1.03855364  
## 2 0 1 0.3604417 1.3218033 -1.52485457  
## 3 0 1 0.3390211 2.7748917 -1.06629245  
## 4 0 0 -9.7215119 -0.1846459 -1.29779123  
## 5 0 1 0.6519367 0.7711290 -0.70211529  
## 6 0 1 0.5004836 2.3331760 0.04280713  
## PC4 TS1M\_RF TS2M\_RF  
## 1 -0.4291936 23.354320 11.482992  
## 2 0.1037763 3.382064 -18.734151  
## 3 -0.4861323 21.482522 15.209839  
## 4 1.6744433 -2.276462 -13.219664  
## 5 -1.1721582 -23.956414 -2.717165  
## 6 -0.8351715 23.394600 10.122887

#Decision tree #Create a Decision Tree to predict Loan Default (Target Flag=1). Comment on the variables that were included in the model. Did any of the Principal Components or tSNE values make it into the model? Discuss why or why not.

tr\_set = rpart.control( maxdepth = 10 )  
t1G = rpart( data=df\_model, TARGET\_BAD\_FLAG ~ ., control=tr\_set, method="class", parms=list(split='gini') )  
t1E = rpart( data=df\_model, TARGET\_BAD\_FLAG ~ ., control=tr\_set, method="class", parms=list(split='information') )  
  
rpart.plot( t1G )  
  
rpart.plot( t1E )



t1G$variable.importance

## TARGET\_LOSS\_AMT PC3 M\_DEBTINC IMP\_DELINQ M\_VALUE   
## 1903.5970 552.3473 488.3070 164.9037 156.8987   
## IMP\_DEROG   
## 108.8685

t1E$variable.importance

## TARGET\_LOSS\_AMT PC3 M\_DEBTINC IMP\_DELINQ M\_VALUE   
## 2978.2348 864.1640 763.9711 257.9968 245.4727   
## IMP\_DEROG   
## 170.3280

#Create a Logistic Regression model to predict Loan Default (Target Flag=1). Use either Forward, Backward, or Stepwise variable selection. Comment on the variables that were included in the model. Did any of the Principal Components or tSNE values make it into the model? Discuss why or why not.

theUpper\_LR = glm( TARGET\_BAD\_FLAG ~ ., family = "binomial", data=df\_model )

## Warning: glm.fit: algorithm did not converge

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

theLower\_LR = glm( TARGET\_BAD\_FLAG ~ 1, family = "binomial", data=df\_model )  
  
summary( theUpper\_LR )

##   
## Call:  
## glm(formula = TARGET\_BAD\_FLAG ~ ., family = "binomial", data = df\_model)  
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)  
## (Intercept) -3.026e+01 2.541e+04 -0.001 0.999  
## TARGET\_LOSS\_AMT 6.528e-02 1.565e+00 0.042 0.967  
## M\_MORTDUE -1.940e+01 1.365e+04 -0.001 0.999  
## M\_VALUE -5.040e+01 2.818e+04 -0.002 0.999  
## M\_YOJ -2.201e+01 1.094e+04 -0.002 0.998  
## IMP\_DEROG -2.971e+01 4.610e+03 -0.006 0.995  
## M\_DEROG -6.187e+01 4.266e+04 -0.001 0.999  
## IMP\_DELINQ -2.282e+01 4.011e+03 -0.006 0.995  
## M\_DELINQ -8.056e+01 4.805e+04 -0.002 0.999  
## M\_CLAGE -3.325e+01 2.792e+04 -0.001 0.999  
## IMP\_NINQ -4.753e+00 8.429e+02 -0.006 0.996  
## M\_NINQ -5.906e+01 2.114e+04 -0.003 0.998  
## M\_CLNO -1.221e+02 3.933e+04 -0.003 0.998  
## M\_DEBTINC -4.209e+01 3.880e+03 -0.011 0.991  
## FLAG.Job.Mgr 2.312e+01 1.612e+04 0.001 0.999  
## FLAG.Job.Office 1.722e+01 1.610e+04 0.001 0.999  
## FLAG.Job.Other 3.274e+01 1.486e+04 0.002 0.998  
## FLAG.Job.ProfExe 2.040e+01 1.462e+04 0.001 0.999  
## FLAG.Job.Sales -2.198e+01 2.495e+04 -0.001 0.999  
## FLAG.Job.Self -7.105e+01 5.171e+04 -0.001 0.999  
## FLAG.Reason.DebtCon 4.039e-01 1.198e+04 0.000 1.000  
## FLAG.Reason.HomeImp 1.437e+01 1.198e+04 0.001 0.999  
## PC1 -5.217e+01 1.459e+04 -0.004 0.997  
## PC2 6.878e+00 3.531e+03 0.002 0.998  
## PC3 -2.736e+01 2.878e+03 -0.010 0.992  
## PC4 1.431e+01 1.629e+03 0.009 0.993  
## TS1M\_RF -3.111e-02 2.940e+02 0.000 1.000  
## TS2M\_RF 3.742e-01 2.048e+02 0.002 0.999  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 5.9565e+03 on 5959 degrees of freedom  
## Residual deviance: 5.5534e-06 on 5932 degrees of freedom  
## AIC: 56  
##   
## Number of Fisher Scoring iterations: 25

summary( theLower\_LR )

##   
## Call:  
## glm(formula = TARGET\_BAD\_FLAG ~ 1, family = "binomial", data = df\_model)  
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -1.38944 0.03241 -42.87 <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: 5956.5 on 5959 degrees of freedom  
## Residual deviance: 5956.5 on 5959 degrees of freedom  
## AIC: 5958.5  
##   
## Number of Fisher Scoring iterations: 4

lr\_model = stepAIC(theLower\_LR, direction="forward", scope=list(lower=theLower\_LR, upper=theUpper\_LR))

## Start: AIC=5958.47  
## TARGET\_BAD\_FLAG ~ 1

## Warning: glm.fit: algorithm did not converge  
  
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

## Df Deviance AIC  
## + TARGET\_LOSS\_AMT 1 0.0 4.0  
## + PC3 1 4232.0 4236.0  
## + M\_DEBTINC 1 4431.3 4435.3  
## + IMP\_DELINQ 1 5411.8 5415.8  
## + M\_VALUE 1 5659.8 5663.8  
## + IMP\_DEROG 1 5689.5 5693.5  
## + IMP\_NINQ 1 5807.6 5811.6  
## + TS1M\_RF 1 5914.4 5918.4  
## + FLAG.Job.Office 1 5921.4 5925.4  
## + M\_DEROG 1 5923.8 5927.8  
## + FLAG.Job.Other 1 5930.4 5934.4  
## + M\_DELINQ 1 5931.2 5935.2  
## + M\_YOJ 1 5935.5 5939.5  
## + FLAG.Job.Sales 1 5943.0 5947.0  
## + PC2 1 5944.7 5948.7  
## + FLAG.Job.ProfExe 1 5944.8 5948.8  
## + FLAG.Job.Self 1 5945.0 5949.0  
## + M\_NINQ 1 5946.2 5950.2  
## + FLAG.Reason.HomeImp 1 5948.2 5952.2  
## + FLAG.Reason.DebtCon 1 5949.6 5953.6  
## + FLAG.Job.Mgr 1 5950.4 5954.4  
## + PC4 1 5950.6 5954.6  
## + M\_CLAGE 1 5950.9 5954.9  
## + PC1 1 5951.9 5955.9  
## + M\_CLNO 1 5954.3 5958.3  
## <none> 5956.5 5958.5  
## + TS2M\_RF 1 5956.3 5960.3  
## + M\_MORTDUE 1 5956.4 5960.4

## Warning: glm.fit: algorithm did not converge  
  
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

##   
## Step: AIC=4  
## TARGET\_BAD\_FLAG ~ TARGET\_LOSS\_AMT

## Warning: glm.fit: algorithm did not converge  
  
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

## Warning: glm.fit: algorithm did not converge

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

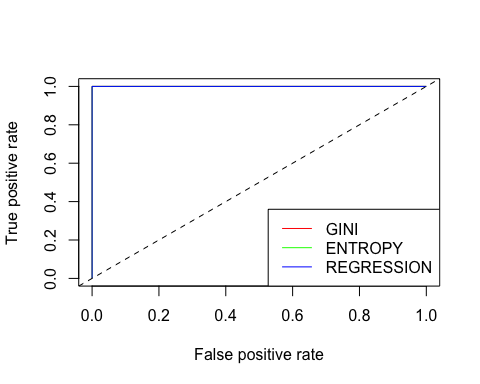
## Df Deviance AIC  
## <none> 2.1322e-05 4  
## + M\_DEBTINC 1 1.9108e-05 6  
## + M\_VALUE 1 1.9975e-05 6  
## + PC3 1 1.9993e-05 6  
## + FLAG.Reason.DebtCon 1 2.0140e-05 6  
## + M\_MORTDUE 1 2.0856e-05 6  
## + FLAG.Job.ProfExe 1 2.0885e-05 6  
## + M\_CLAGE 1 2.0910e-05 6  
## + FLAG.Job.Self 1 2.1061e-05 6  
## + M\_CLNO 1 2.1062e-05 6  
## + PC1 1 2.1080e-05 6  
## + FLAG.Job.Sales 1 2.1236e-05 6  
## + IMP\_DEROG 1 2.1251e-05 6  
## + FLAG.Job.Office 1 2.1420e-05 6  
## + M\_NINQ 1 2.1547e-05 6  
## + M\_DEROG 1 2.1588e-05 6  
## + PC4 1 2.1626e-05 6  
## + M\_DELINQ 1 2.1627e-05 6  
## + M\_YOJ 1 2.1978e-05 6  
## + FLAG.Job.Mgr 1 2.2139e-05 6  
## + TS2M\_RF 1 2.2511e-05 6  
## + IMP\_DELINQ 1 2.2562e-05 6  
## + FLAG.Job.Other 1 2.2763e-05 6  
## + IMP\_NINQ 1 2.3164e-05 6  
## + FLAG.Reason.HomeImp 1 2.7166e-05 6  
## + PC2 1 2.9663e-05 6  
## + TS1M\_RF 1 3.0977e-05 6

summary( lr\_model )

##   
## Call:  
## glm(formula = TARGET\_BAD\_FLAG ~ TARGET\_LOSS\_AMT, family = "binomial",   
## data = df\_model)  
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)  
## (Intercept) -20.5687 257.0375 -0.080 0.936  
## TARGET\_LOSS\_AMT 0.1462 1.6602 0.088 0.930  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 5.9565e+03 on 5959 degrees of freedom  
## Residual deviance: 2.1322e-05 on 5958 degrees of freedom  
## AIC: 4  
##   
## Number of Fisher Scoring iterations: 25

Create a ROC curve showing the accuracy of the model. Calculate and display the Area Under the ROC Curve (AUC).

pG = predict( t1G, df\_model )  
pG2 = prediction( pG[,2], df\_model$TARGET\_BAD\_FLAG )  
pG3 = performance( pG2, "tpr", "fpr" )  
  
pE = predict( t1E, df\_model )  
pE2 = prediction( pE[,2], df\_model$TARGET\_BAD\_FLAG )  
pE3 = performance( pE2, "tpr", "fpr" )  
  
plr = predict( lr\_model, df\_model, type="response" )  
plr2 = prediction( plr, df\_model$TARGET\_BAD\_FLAG )  
plr3 = performance( plr2, "tpr", "fpr" )  
  
  
  
plot( pG3, col="red" )  
plot( pE3, col="green", add=TRUE )  
plot( plr3, col="blue", add=TRUE )  
abline(0,1,lty=2)  
legend("bottomright",c("GINI","ENTROPY","REGRESSION"),col=c("red","green","blue"), bty="y", lty=1 )



aucG = performance( pG2, "auc" )@y.values  
aucE = performance( pE2, "auc" )@y.values  
aucR = performance( plr2, "auc" )@y.values  
  
print( aucG )

## [[1]]  
## [1] 1

print( aucE )

## [[1]]  
## [1] 1

print( aucR )

## [[1]]  
## [1] 1

#Step 6: #Discuss how the PCA / tSNE values performed when compared to the original data set.

0-Tree and Regression Analysis on the Original Data: GINI: 0.8433084 ENTROPY: 0.8293732 REGRESSION: 0.9105166

1-Tree and Regression Analysis on the PCA/tSNE Data: GINI: 0.8289114 ENTROPY: 0.8383186 REGRESSION: 0.912403

2-Comparison

1. Gini: The AUC for GINI is lower in the PCA/t-SNE data compared to the original data. The new data set is more obscured the separability the coefficients compared to the original data.
2. Entropy: The AUC for ENTROPY has increased on the PCA/t-SNE data suggesting that the PCA/t-SNE transformation may have clear separability.
3. Regression: The AUC for the regression model is same as the PCA/t-SNE data, suggesting that the linear patterns identified by the regression are preserved in both data sets.

3-Conclusion

PCA/t-SNE transformations can remove noise with irrelevant variables and lead to the enhanced performance. In this case, the impact of PCA/t-SNE on the tree models (GINI and ENTROPY) is slightly different, suggesting that these models are sensitive to the structure of the data. The stability of the regression model suggests that the main variance captured by PCA/t-SNE is also captured in the original data for the linear relationships modeled by regression. However, it seems that the dimensional reduction has not significantly enhanced model’s ability for prediction.