Stock Counts 52 Machine Learning

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This script takes the STOCK\_COUNTS\_52.csv table made in the matrix.Rmd script and runs known algorithms on it for machine learning results using the features in the table of counts from the time specified in making the table. It can predict with 100% accuracy what cycle you are in or how many days are increasing using the given data set and the random forest and generalized linear models for predictions. The file is at <https://www.kaggle.com/janiscorona/stock-day-counts-increasing-and-decreasing-0720#STOCK_COUNTS_52.csv>

library(e1071)  
library(caret)  
library(randomForest)  
library(MASS)  
library(gbm)

Now, lets switch from H2O to the other machine learning packages to analyze this large dataset.

stock\_52 <- read.csv('STOCK\_COUNTS\_52.csv', sep=',', header=TRUE,   
 na.strings=c('',' ','NA'))

head(stock\_52)

## stock  
## 1 AAL  
## 2 AAP  
## 3 ADDYY  
## 4 AMZN  
## 5 ARWR  
## 6 C  
## stockInfo  
## 1 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price. Currency in USD  
## 2 Advance Auto Parts, Inc. (AAP)\nNYSE - NYSE Delayed Price. Currency in USD  
## 3 adidas AG (ADDYY)\nOther OTC - Other OTC Delayed Price. Currency in USD  
## 4 Amazon.com, Inc. (AMZN)\nNasdaqGS - NasdaqGS Real Time Price. Currency in USD  
## 5 Arrowhead Pharmaceuticals, Inc. (ARWR)\nNasdaqGS - NasdaqGS Real Time Price. Currency in USD  
## 6 Citigroup Inc. (C)\nNYSE - NYSE Delayed Price. Currency in USD  
## stockExchange Date DayOfWeek Month Year MonthYear stockDayValue lag7  
## 1 Nasdaq 2007-01-12 Friday Jan 2007 Jan-2007 60.81 56.30  
## 2 NYSE 2007-01-12 Friday Jan 2007 Jan-2007 36.20 35.58  
## 3 Other OTC 2007-01-12 Friday Jan 2007 Jan-2007 24.40 25.00  
## 4 Nasdaq 2007-01-12 Friday Jan 2007 Jan-2007 38.20 38.70  
## 5 Nasdaq 2007-01-12 Friday Jan 2007 Jan-2007 40.27 44.00  
## 6 NYSE 2007-01-12 Friday Jan 2007 Jan-2007 543.80 552.50  
## today2lag7 todayGrtrThanLag7 cumulativeSumTodayGrtrThanLag7  
## 1 0.9258345 0 0  
## 2 0.9828730 0 0  
## 3 1.0245902 1 1  
## 4 1.0130890 1 1  
## 5 1.0926248 1 1  
## 6 1.0159986 1 1  
## nRepeatsTodayGrtrThanLag7 decrDaysThisCycle nTimesDecrDayCountsOccurs  
## 1 3 2 29  
## 2 11 10 8  
## 3 1 0 1191  
## 4 1 0 1162  
## 5 1 0 1407  
## 6 1 0 1340  
## todayLessThanLag7 cumulativeSumTodayLessThanLag7 nRepeatsTodayLessThanLag7  
## 1 1 1 1  
## 2 1 1 1  
## 3 0 0 3  
## 4 0 0 10  
## 5 0 0 10  
## 6 0 0 5  
## incrDaysThisCycle nTimesIncrDayCountsOccurs  
## 1 0 1428  
## 2 0 1499  
## 3 2 44  
## 4 9 11  
## 5 9 18  
## 6 4 21

colnames(stock\_52)

## [1] "stock" "stockInfo"   
## [3] "stockExchange" "Date"   
## [5] "DayOfWeek" "Month"   
## [7] "Year" "MonthYear"   
## [9] "stockDayValue" "lag7"   
## [11] "today2lag7" "todayGrtrThanLag7"   
## [13] "cumulativeSumTodayGrtrThanLag7" "nRepeatsTodayGrtrThanLag7"   
## [15] "decrDaysThisCycle" "nTimesDecrDayCountsOccurs"   
## [17] "todayLessThanLag7" "cumulativeSumTodayLessThanLag7"  
## [19] "nRepeatsTodayLessThanLag7" "incrDaysThisCycle"   
## [21] "nTimesIncrDayCountsOccurs"

Create a subset of the 52 stocks data of the AAL stock, make the rows the date column, and remove the other date columns and multicollinear columns that align with stockDayValue, like the lag7 and today2lag7 columns.

stocks\_52 <- stock\_52[,c(1,4,9,12:21)]  
sAAL <- subset(stocks\_52, stocks\_52$stock =='AAL')  
row.names(sAAL) <- sAAL$Date  
sAAL <- sAAL[,-c(1:2)]  
head(sAAL)

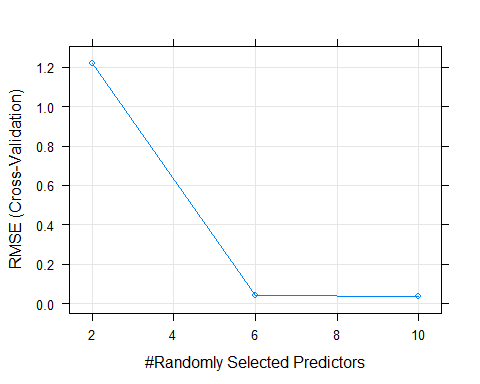
## stockDayValue todayGrtrThanLag7 cumulativeSumTodayGrtrThanLag7  
## 2007-01-12 60.81 0 0  
## 2007-01-16 61.96 0 0  
## 2007-01-17 58.65 0 0  
## 2007-01-18 57.83 1 1  
## 2007-01-19 58.29 0 1  
## 2007-01-22 57.03 1 2  
## nRepeatsTodayGrtrThanLag7 decrDaysThisCycle  
## 2007-01-12 3 2  
## 2007-01-16 3 2  
## 2007-01-17 3 2  
## 2007-01-18 2 1  
## 2007-01-19 2 1  
## 2007-01-22 1 0  
## nTimesDecrDayCountsOccurs todayLessThanLag7  
## 2007-01-12 29 1  
## 2007-01-16 29 1  
## 2007-01-17 29 1  
## 2007-01-18 71 0  
## 2007-01-19 71 1  
## 2007-01-22 1374 0  
## cumulativeSumTodayLessThanLag7 nRepeatsTodayLessThanLag7  
## 2007-01-12 1 1  
## 2007-01-16 2 1  
## 2007-01-17 3 2  
## 2007-01-18 3 2  
## 2007-01-19 4 9  
## 2007-01-22 4 9  
## incrDaysThisCycle nTimesIncrDayCountsOccurs  
## 2007-01-12 0 1428  
## 2007-01-16 0 1428  
## 2007-01-17 1 61  
## 2007-01-18 1 61  
## 2007-01-19 8 12  
## 2007-01-22 8 12

Try predicting the number of increasing days this cycle for the AAL stock as a subset.

set.seed(12356789)  
  
inTrain <- createDataPartition(y=sAAL$incrDaysThisCycle, p=0.7, list=FALSE)  
  
trainingSet <- sAAL[inTrain,]  
testingSet <- sAAL[-inTrain,]

rfMod <- train(incrDaysThisCycle ~ ., method='rf', data=(trainingSet),   
 trControl=trainControl(method='cv'), number=5)

plot(rfMod)



predRF <- predict(rfMod, testingSet)  
  
predDF <- data.frame(predRF, IncreasingDaysThisCycle=testingSet$incrDaysThisCycle)  
predDF

## predRF IncreasingDaysThisCycle  
## 2007-01-16 2.660000e-01 0  
## 2007-01-17 1.188000e+00 1  
## 2007-01-22 8.008000e+00 8  
## 2007-01-23 8.024000e+00 8  
## 2007-01-24 8.040000e+00 8  
## 2007-01-26 8.040000e+00 8  
## 2007-01-29 8.040000e+00 8  
## 2007-01-31 8.008000e+00 8  
## 2007-02-08 -1.556621e-14 0  
## 2007-02-09 -2.046008e-14 0  
## 2007-02-16 2.500000e+01 25  
## 2007-02-27 2.500000e+01 25  
## 2007-03-02 2.500000e+01 25  
## 2007-03-07 2.500000e+01 25  
## 2007-03-12 2.500000e+01 25  
## 2007-03-14 2.500000e+01 25  
## 2007-03-19 2.500000e+01 25  
## 2007-03-21 2.480400e+01 25  
## 2007-03-22 3.000000e-02 0  
## 2007-03-29 3.994000e+00 4  
## 2007-04-02 4.000000e+00 4  
## 2007-04-04 1.034000e+00 1  
## 2007-04-05 3.000000e-02 0  
## 2007-04-09 3.000000e-02 0  
## 2007-04-13 7.000000e+00 7  
## 2007-04-16 7.000000e+00 7  
## 2007-04-26 2.100000e+01 21  
## 2007-04-27 2.100000e+01 21  
## 2007-05-03 2.100000e+01 21  
## 2007-05-11 2.100000e+01 21  
## 2007-05-18 2.100000e+01 21  
## 2007-05-29 -2.663825e-14 0  
## 2007-06-04 1.200000e+01 12  
## 2007-06-05 1.200000e+01 12  
## 2007-06-12 1.200000e+01 12  
## 2007-06-13 1.200000e+01 12  
## 2007-06-15 1.200000e+01 12  
## 2007-06-18 1.200000e+01 12  
## 2007-06-20 3.200000e-02 0  
## 2007-06-26 -2.889422e-14 0  
## 2007-06-29 -2.989786e-14 0  
## 2007-07-03 -2.934897e-14 0  
## 2007-07-11 -2.902034e-14 0  
## 2007-07-13 -2.951062e-14 0  
## 2007-07-17 1.000000e+00 1  
## 2007-07-18 1.038000e+00 1  
## 2007-07-20 2.008000e+00 2  
## 2007-07-23 2.012000e+00 2  
## 2007-08-03 2.000000e+01 20  
## 2007-08-08 2.000000e+01 20  
## 2007-08-14 2.000000e+01 20  
## 2007-08-16 2.000000e+01 20  
## 2007-08-17 2.000000e+01 20  
## 2007-08-20 2.000000e+01 20  
## 2007-08-27 -3.124789e-14 0  
## 2007-09-05 -3.143619e-14 0  
## 2007-09-13 5.000000e+00 5  
## 2007-09-20 9.000000e+00 9  
## 2007-09-21 9.000000e+00 9  
## 2007-09-24 9.000000e+00 9  
## 2007-10-01 9.000000e+00 9  
## 2007-10-02 8.960000e+00 9  
## 2007-10-04 -3.169021e-14 0  
## 2007-10-10 -3.172218e-14 0  
## 2007-10-22 7.000000e+00 7  
## 2007-10-24 3.000000e+00 3  
## 2007-10-30 -2.930456e-14 0  
## 2007-11-01 1.000000e+01 10  
## 2007-11-06 1.000000e+01 10  
## 2007-11-13 1.000000e+01 10  
## 2007-11-19 9.000000e+00 9  
## 2007-11-21 9.000000e+00 9  
## 2007-11-26 9.000000e+00 9  
## 2007-11-28 9.000000e+00 9  
## 2007-11-30 1.400000e+01 14  
## 2007-12-03 1.400000e+01 14  
## 2007-12-04 1.400000e+01 14  
## 2007-12-06 1.400000e+01 14  
## 2007-12-10 1.400000e+01 14  
## 2007-12-14 1.400000e+01 14  
## 2007-12-17 1.400000e+01 14  
## 2008-01-03 1.100000e+01 11  
## 2008-01-07 1.100000e+01 11  
## 2008-01-16 -3.123013e-14 0  
## 2008-01-23 -2.903811e-14 0  
## 2008-01-24 1.000000e+00 1  
## 2008-01-28 -3.178613e-14 0  
## 2008-01-31 -3.185718e-14 0  
## 2008-02-07 -3.196199e-14 0  
## 2008-02-11 1.000000e+00 1  
## 2008-02-15 2.500000e+01 25  
## 2008-02-28 2.500000e+01 25  
## 2008-03-17 2.500800e+01 25  
## 2008-03-19 2.500800e+01 25  
## 2008-03-20 2.440200e+01 25  
## 2008-03-31 -3.042366e-14 0  
## 2008-04-03 -3.057288e-14 0  
## 2008-04-07 -3.067591e-14 0  
## 2008-04-08 1.296800e+01 13  
## 2008-04-10 1.300000e+01 13  
## 2008-04-22 1.300000e+01 13  
## 2008-04-24 1.300000e+01 13  
## 2008-04-28 -3.066170e-14 0  
## 2008-05-06 7.000000e+00 7  
## 2008-05-14 7.000000e+00 7  
## 2008-05-19 9.996000e+00 10  
## 2008-05-20 1.000000e+01 10  
## 2008-05-29 1.000000e+01 10  
## 2008-06-10 2.000000e+01 20  
## 2008-06-13 2.000000e+01 20  
## 2008-06-16 2.000000e+01 20  
## 2008-06-20 2.000000e+01 20  
## 2008-06-23 2.000000e+01 20  
## 2008-06-25 2.000000e+01 20  
## 2008-06-27 2.000000e+01 20  
## 2008-07-08 -2.598632e-14 0  
## 2008-07-09 5.992000e+00 6  
## 2008-07-10 6.000000e+00 6  
## 2008-07-11 6.000000e+00 6  
## 2008-07-29 -3.040768e-14 0  
## 2008-08-04 -3.054978e-14 0  
## 2008-08-05 -3.062794e-14 0  
## 2008-08-06 -3.062794e-14 0  
## 2008-08-08 -3.094947e-14 0  
## 2008-08-14 -3.110046e-14 0  
## 2008-08-18 6.986000e+00 7  
## 2008-09-02 -3.073097e-14 0  
## 2008-09-03 1.000000e+00 1  
## 2008-09-05 -2.927081e-14 0  
## 2008-09-08 4.000000e+00 4  
## 2008-09-09 4.000000e+00 4  
## 2008-09-10 4.000000e+00 4  
## 2008-09-11 4.000000e+00 4  
## 2008-09-12 4.000000e+00 4  
## 2008-09-16 1.400000e-02 0  
## 2008-09-18 -3.104716e-14 0  
## 2008-09-22 7.000000e+00 7  
## 2008-09-25 7.000000e+00 7  
## 2008-10-06 8.000000e+00 8  
## 2008-10-13 8.000000e+00 8  
## 2008-10-14 8.000000e+00 8  
## 2008-10-17 -3.076828e-14 0  
## 2008-10-21 -3.101164e-14 0  
## 2008-10-24 -3.101164e-14 0  
## 2008-10-28 -3.109157e-14 0  
## 2008-10-30 -3.109157e-14 0  
## 2008-11-07 1.300000e+01 13  
## 2008-11-18 1.300000e+01 13  
## 2008-11-20 1.297400e+01 13  
## 2008-11-21 1.297400e+01 13  
## 2008-11-25 2.014000e+00 2  
## 2008-12-10 -3.142198e-14 0  
## 2008-12-15 3.000000e+00 3  
## 2008-12-23 -3.049294e-14 0  
## 2008-12-24 -3.072742e-14 0  
## 2008-12-30 -3.064926e-14 0  
## 2008-12-31 -3.076650e-14 0  
## 2009-01-02 -3.089440e-14 0  
## 2009-01-06 -3.089440e-14 0  
## 2009-01-13 8.000000e+00 8  
## 2009-01-15 8.000000e+00 8  
## 2009-01-21 8.000000e+00 8  
## 2009-01-22 8.000000e+00 8  
## 2009-02-02 3.000000e+01 30  
## 2009-02-03 3.000000e+01 30  
## 2009-02-11 3.000000e+01 30  
## 2009-02-17 3.000000e+01 30  
## 2009-02-19 3.000000e+01 30  
## 2009-02-20 3.000000e+01 30  
## 2009-02-25 3.000000e+01 30  
## 2009-02-26 3.000000e+01 30  
## 2009-03-04 3.000000e+01 30  
## 2009-03-09 3.000000e+01 30  
## 2009-03-12 -2.894929e-14 0  
## 2009-03-18 -2.993872e-14 0  
## 2009-03-20 7.000000e+00 7  
## 2009-03-24 7.000000e+00 7  
## 2009-03-26 7.000000e+00 7  
## 2009-03-31 1.000000e+00 1  
## 2009-04-01 1.000000e+00 1  
## 2009-04-07 -2.920864e-14 0  
## 2009-04-08 -2.928680e-14 0  
## 2009-04-13 -2.974332e-14 0  
## 2009-04-14 -2.959943e-14 0  
## 2009-04-15 -2.974332e-14 0  
## 2009-04-16 -2.989964e-14 0  
## 2009-04-17 -2.997780e-14 0  
## 2009-04-24 -3.072387e-14 0  
## 2009-04-28 9.980000e-01 1  
## 2009-05-01 3.000000e+00 3  
## 2009-05-06 -3.027090e-14 0  
## 2009-05-07 1.600000e+01 16  
## 2009-05-08 1.600000e+01 16  
## 2009-05-11 1.600000e+01 16  
## 2009-05-14 1.600000e+01 16  
## 2009-05-26 1.600000e+01 16  
## 2009-05-28 1.600000e+01 16  
## 2009-06-03 1.000000e+00 1  
## 2009-06-05 -2.900435e-14 0  
## 2009-06-16 1.600000e+01 16  
## 2009-06-19 1.600000e+01 16  
## 2009-06-23 1.600000e+01 16  
## 2009-06-30 1.600000e+01 16  
## 2009-07-09 1.000000e+01 10  
## 2009-07-10 1.000000e+01 10  
## 2009-08-06 -3.006129e-14 0  
## 2009-08-12 -2.810374e-14 0  
## 2009-08-18 4.000000e+00 4  
## 2009-08-24 -3.047518e-14 0  
## 2009-08-28 -3.070966e-14 0  
## 2009-09-02 5.000000e+00 5  
## 2009-09-30 1.000000e+01 10  
## 2009-10-01 1.000000e+01 10  
## 2009-10-07 1.000000e+01 10  
## 2009-10-14 -3.064216e-14 0  
## 2009-10-15 -3.068479e-14 0  
## 2009-10-26 1.400000e+01 14  
## 2009-11-02 1.400000e+01 14  
## 2009-11-03 1.400000e+01 14  
## 2009-11-04 1.400000e+01 14  
## 2009-11-05 1.397200e+01 14  
## 2009-11-10 -3.033840e-14 0  
## 2009-11-11 -3.055334e-14 0  
## 2009-11-16 -3.070966e-14 0  
## 2009-11-25 -2.988543e-14 0  
## 2009-11-30 -2.988543e-14 0  
## 2009-12-01 -2.988543e-14 0  
## 2009-12-03 -3.011991e-14 0  
## 2009-12-08 -3.041833e-14 0  
## 2009-12-10 -3.034017e-14 0  
## 2009-12-11 -3.072209e-14 0  
## 2009-12-14 -3.072209e-14 0  
## 2009-12-22 -3.072209e-14 0  
## 2009-12-28 -3.072209e-14 0  
## 2010-01-04 9.980000e-01 1  
## 2010-01-06 1.000000e+00 1  
## 2010-01-13 -3.135270e-14 0  
## 2010-01-14 -3.141842e-14 0  
## 2010-01-21 -3.135270e-14 0  
## 2010-01-22 5.000000e+00 5  
## 2010-01-28 5.000000e+00 5  
## 2010-02-02 -3.011635e-14 0  
## 2010-02-03 -3.003819e-14 0  
## 2010-02-11 -3.018918e-14 0  
## 2010-02-12 -3.018918e-14 0  
## 2010-02-16 -3.026734e-14 0  
## 2010-02-18 -3.018918e-14 0  
## 2010-02-19 -3.026734e-14 0  
## 2010-02-25 -3.026734e-14 0  
## 2010-03-02 -3.046274e-14 0  
## 2010-03-04 -3.034550e-14 0  
## 2010-03-11 -3.058886e-14 0  
## 2010-03-16 -3.058886e-14 0  
## 2010-03-30 -3.100276e-14 0  
## 2010-04-07 3.000000e+00 3  
## 2010-04-08 -3.142198e-14 0  
## 2010-04-23 7.000000e+00 7  
## 2010-04-28 -3.134382e-14 0  
## 2010-05-03 -3.134382e-14 0  
## 2010-05-04 -3.128164e-14 0  
## 2010-05-05 -3.128164e-14 0  
## 2010-05-06 4.000000e+00 4  
## 2010-05-12 4.024000e+00 4  
## 2010-05-17 -3.161027e-14 0  
## 2010-05-20 2.060000e+00 2  
## 2010-06-04 3.000000e+00 3  
## 2010-06-07 3.000000e+00 3  
## 2010-06-09 3.000000e+00 3  
## 2010-06-11 -3.227285e-14 0  
## 2010-06-16 -3.233502e-14 0  
## 2010-06-18 -3.241318e-14 0  
## 2010-06-25 1.000000e+01 10  
## 2010-07-07 -3.167600e-14 0  
## 2010-07-19 3.000000e+00 3  
## 2010-07-20 3.000000e+00 3  
## 2010-07-23 -3.258194e-14 0  
## 2010-07-26 -3.235279e-14 0  
## 2010-08-02 -3.251444e-14 0  
## 2010-08-04 9.000000e+00 9  
## 2010-08-16 9.000000e+00 9  
## 2010-08-18 1.000000e+01 10  
## 2010-08-20 1.000000e+01 10  
## 2010-08-24 1.000000e+01 10  
## 2010-08-25 1.000000e+01 10  
## 2010-08-30 1.000000e+01 10  
## 2010-08-31 1.000000e+01 10  
## 2010-09-01 -3.195133e-14 0  
## 2010-09-07 -3.195133e-14 0  
## 2010-09-10 6.000000e+00 6  
## 2010-09-13 6.000000e+00 6  
## 2010-09-16 6.000000e+00 6  
## 2010-10-08 1.000000e+00 1  
## 2010-10-11 1.000000e+00 1  
## 2010-10-18 -3.226930e-14 0  
## 2010-10-21 -3.220535e-14 0  
## 2010-10-25 -3.220002e-14 0  
## 2010-10-28 -3.236167e-14 0  
## 2010-10-29 -3.213074e-14 0  
## 2010-11-08 1.000000e+01 10  
## 2010-11-09 1.000000e+01 10  
## 2010-11-22 -3.217338e-14 0  
## 2010-11-24 -3.208456e-14 0  
## 2010-11-30 -3.212541e-14 0  
## 2010-12-02 1.800000e+01 18  
## 2010-12-03 1.800000e+01 18  
## 2010-12-08 1.800000e+01 18  
## 2010-12-09 1.800000e+01 18  
## 2010-12-15 1.800000e+01 18  
## 2010-12-16 1.800000e+01 18  
## 2011-01-06 -3.206679e-14 0  
## 2011-01-11 -3.235989e-14 0  
## 2011-01-12 -3.240075e-14 0  
## 2011-01-13 6.986000e+00 7  
## 2011-01-14 7.000000e+00 7  
## 2011-01-28 1.026000e+00 1  
## 2011-02-03 7.000000e+00 7  
## 2011-02-04 7.000000e+00 7  
## 2011-02-10 6.994000e+00 7  
## 2011-02-11 -3.206679e-14 0  
## 2011-02-22 1.100000e+01 11  
## 2011-02-25 1.100000e+01 11  
## 2011-02-28 1.100000e+01 11  
## 2011-03-09 -3.170619e-14 0  
## 2011-03-16 1.000000e+00 1  
## 2011-03-23 3.000000e+00 3  
## 2011-03-24 3.000000e+00 3  
## 2011-03-31 3.000000e+00 3  
## 2011-04-04 1.000000e+01 10  
## 2011-04-05 1.000000e+01 10  
## 2011-04-11 1.000000e+01 10  
## 2011-04-13 1.000000e+01 10  
## 2011-04-26 -3.167600e-14 0  
## 2011-04-27 -3.167600e-14 0  
## 2011-04-28 -3.175415e-14 0  
## 2011-04-29 -3.175415e-14 0  
## 2011-05-05 -3.208633e-14 0  
## 2011-05-20 -3.193712e-14 0  
## 2011-05-27 1.600000e+01 16  
## 2011-06-03 1.600000e+01 16  
## 2011-06-07 1.600000e+01 16  
## 2011-06-08 1.600000e+01 16  
## 2011-06-09 1.600000e+01 16  
## 2011-06-14 1.600000e+01 16  
## 2011-06-15 1.600000e+01 16  
## 2011-06-20 -3.178080e-14 0  
## 2011-06-22 -3.178080e-14 0  
## 2011-06-28 -3.188028e-14 0  
## 2011-06-29 -3.188028e-14 0  
## 2011-07-01 2.899200e+01 29  
## 2011-07-11 2.900000e+01 29  
## 2011-07-13 2.900000e+01 29  
## 2011-07-14 2.900000e+01 29  
## 2011-07-22 2.900000e+01 29  
## 2011-08-05 2.900000e+01 29  
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## 2018-01-26 1.500000e+01 15  
## 2018-01-29 1.500000e+01 15  
## 2018-01-30 1.500000e+01 15  
## 2018-01-31 1.500000e+01 15  
## 2018-02-05 1.500000e+01 15  
## 2018-02-12 1.500000e+01 15  
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## 2018-02-23 -3.079137e-14 0  
## 2018-03-02 -3.107736e-14 0  
## 2018-03-07 1.000000e+00 1  
## 2018-03-08 -2.772715e-14 0  
## 2018-03-09 -2.605027e-14 0  
## 2018-03-12 -2.578560e-14 0  
## 2018-03-13 -2.584066e-14 0  
## 2018-03-16 1.100000e+01 11  
## 2018-03-27 1.100000e+01 11  
## 2018-04-04 6.000000e-03 0  
## 2018-04-09 1.000000e+01 10  
## 2018-04-10 1.000000e+01 10  
## 2018-05-08 3.000000e+00 3  
## 2018-05-10 3.000000e+00 3  
## 2018-05-11 -3.276135e-14 0  
## 2018-05-14 -3.276135e-14 0  
## 2018-05-16 -3.254463e-14 0  
## 2018-05-17 -3.261746e-14 0  
## 2018-05-23 -3.252687e-14 0  
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## 2018-06-07 1.000000e+00 1  
## 2018-06-08 1.000000e+00 1  
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## 2018-06-12 1.800000e+01 18  
## 2018-06-15 1.800000e+01 18  
## 2018-06-18 1.800000e+01 18  
## 2018-06-19 1.800000e+01 18  
## 2018-06-22 1.800000e+01 18  
## 2018-06-25 1.800000e+01 18  
## 2018-06-26 1.800000e+01 18  
## 2018-07-03 1.800000e+01 18  
## 2018-07-06 1.800000e+01 18  
## 2018-07-10 6.994000e+00 7  
## 2018-07-12 7.000000e+00 7  
## 2018-07-13 7.000000e+00 7  
## 2018-07-16 7.000000e+00 7  
## 2018-07-24 -3.236877e-14 0  
## 2018-07-27 -3.278267e-14 0  
## 2018-07-30 -3.280931e-14 0  
## 2018-08-07 1.000000e+01 10  
## 2018-08-16 1.000000e+01 10  
## 2018-08-21 -3.266898e-14 0  
## 2018-08-24 -3.264944e-14 0  
## 2018-08-30 -3.243450e-14 0  
## 2018-09-06 6.000000e+00 6  
## 2018-09-12 6.000000e+00 6  
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## 2018-09-21 -3.057465e-14 0  
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## 2018-10-04 1.500000e+01 15  
## 2018-10-08 1.500000e+01 15  
## 2018-10-18 1.500000e+01 15  
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## 2018-10-24 3.000000e+00 3  
## 2018-10-26 3.034000e+00 3  
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## 2018-11-07 -3.014833e-14 0  
## 2018-11-12 -3.007017e-14 0  
## 2018-11-14 -2.982681e-14 0  
## 2018-11-26 1.000000e+00 1  
## 2018-12-07 1.500000e+01 15  
## 2018-12-12 1.500000e+01 15  
## 2018-12-14 1.500000e+01 15  
## 2018-12-18 1.500000e+01 15  
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## 2019-02-05 -2.854961e-14 0  
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## 2019-02-27 -3.081624e-14 0  
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## 2019-03-08 1.400000e+01 14  
## 2019-03-19 1.400000e+01 14  
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## 2019-03-22 5.000000e+00 5  
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## 2019-04-02 -3.313794e-14 0  
## 2019-04-18 6.994000e+00 7  
## 2019-04-23 7.000000e+00 7  
## 2019-04-26 7.000000e+00 7  
## 2019-04-29 7.000000e+00 7  
## 2019-04-30 7.000000e+00 7  
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## 2019-05-07 2.000000e+00 2  
## 2019-05-09 2.000000e+00 2  
## 2019-05-16 1.600000e+01 16  
## 2019-05-20 1.600000e+01 16  
## 2019-05-29 1.600000e+01 16  
## 2019-05-31 1.600000e+01 16  
## 2019-06-03 1.600000e+01 16  
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## 2019-06-28 5.008000e+00 5  
## 2019-07-01 -3.207035e-14 0  
## 2019-07-10 -3.193712e-14 0  
## 2019-07-12 -3.164935e-14 0  
## 2019-07-16 -3.134915e-14 0  
## 2019-07-19 2.000000e+00 2  
## 2019-07-30 2.500000e+01 25  
## 2019-07-31 2.500000e+01 25  
## 2019-08-01 2.500000e+01 25  
## 2019-08-05 2.500000e+01 25  
## 2019-08-07 2.500000e+01 25  
## 2019-08-09 2.500000e+01 25  
## 2019-08-14 2.500000e+01 25  
## 2019-08-16 2.500000e+01 25  
## 2019-08-19 2.500000e+01 25  
## 2019-08-20 2.500000e+01 25  
## 2019-08-22 2.500000e+01 25  
## 2019-08-27 2.500000e+01 25  
## 2019-08-30 2.000000e+00 2  
## 2019-09-04 -3.052847e-14 0  
## 2019-09-09 -3.161382e-14 0  
## 2019-09-10 -3.178080e-14 0  
## 2019-09-13 -3.162270e-14 0  
## 2019-09-16 -3.062439e-14 0  
## 2019-09-17 -3.154277e-14 0  
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## 2019-09-24 1.400000e+01 14  
## 2019-09-25 1.400000e+01 14  
## 2019-10-02 1.400000e+01 14  
## 2019-10-08 1.400000e+01 14  
## 2019-10-15 -3.063505e-14 0  
## 2019-10-18 -3.023537e-14 0  
## 2019-10-22 -3.018208e-14 0  
## 2019-10-24 -3.059597e-14 0  
## 2019-10-29 -3.024248e-14 0  
## 2019-11-01 -2.912337e-14 0  
## 2019-11-14 8.000000e+00 8  
## 2019-11-19 8.000000e+00 8  
## 2019-11-22 -2.948219e-14 0  
## 2019-11-26 -2.956035e-14 0  
## 2019-11-29 9.000000e+00 9  
## 2019-12-02 9.000000e+00 9  
## 2019-12-06 9.000000e+00 9  
## 2019-12-11 8.980000e+00 9  
## 2019-12-13 -2.887646e-14 0  
## 2019-12-16 -2.907896e-14 0  
## 2019-12-18 -2.892975e-14 0  
## 2019-12-20 -2.959055e-14 0  
## 2019-12-27 -2.755840e-14 0  
## 2020-01-02 8.000000e+00 8  
## 2020-01-03 8.000000e+00 8  
## 2020-01-06 8.000000e+00 8  
## 2020-01-09 8.000000e+00 8  
## 2020-01-14 8.000000e+00 8  
## 2020-01-17 2.000000e+00 2  
## 2020-01-31 2.000000e+00 2  
## 2020-02-03 2.000000e+00 2  
## 2020-02-11 -2.237144e-14 0  
## 2020-02-12 -2.030198e-14 0  
## 2020-02-19 1.400000e+01 14  
## 2020-02-20 1.400000e+01 14  
## 2020-02-21 1.400000e+01 14  
## 2020-02-28 1.400000e+01 14  
## 2020-03-06 1.400000e+01 14

sum <- sum(predRF==testingSet$incrDaysThisCycle)   
length <- length(testingSet$incrDaysThisCycle)  
accuracy\_rfMod <- (sum/length)   
accuracy\_rfMod

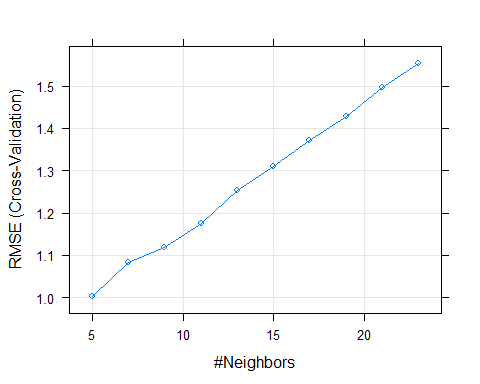
## [1] 0.3104839

results <- c(round(accuracy\_rfMod,2), round(100,2))  
results <- as.factor(results)  
results <- t(data.frame(results))  
  
colnames(results) <- colnames(predDF)  
Results <- rbind(predDF, results)   
Results

## predRF IncreasingDaysThisCycle  
## 2007-01-16 0.265999999999992 0  
## 2007-01-17 1.188 1  
## 2007-01-22 8.008 8  
## 2007-01-23 8.024 8  
## 2007-01-24 8.04 8  
## 2007-01-26 8.04 8  
## 2007-01-29 8.04 8  
## 2007-01-31 8.008 8  
## 2007-02-08 -1.55662149836644e-14 0  
## 2007-02-09 -2.04600780762121e-14 0  
## 2007-02-16 25 25  
## 2007-02-27 25 25  
## 2007-03-02 25 25  
## 2007-03-07 25 25  
## 2007-03-12 25 25  
## 2007-03-14 25 25  
## 2007-03-19 25 25  
## 2007-03-21 24.804 25  
## 2007-03-22 0.0299999999999766 0  
## 2007-03-29 3.994 4  
## 2007-04-02 4 4  
## 2007-04-04 1.034 1  
## 2007-04-05 0.0299999999999765 0  
## 2007-04-09 0.0299999999999767 0  
## 2007-04-13 7 7  
## 2007-04-16 7 7  
## 2007-04-26 21 21  
## 2007-04-27 21 21  
## 2007-05-03 21 21  
## 2007-05-11 21 21  
## 2007-05-18 21 21  
## 2007-05-29 -2.66382471636462e-14 0  
## 2007-06-04 12 12  
## 2007-06-05 12 12  
## 2007-06-12 12 12  
## 2007-06-13 12 12  
## 2007-06-15 12 12  
## 2007-06-18 12 12  
## 2007-06-20 0.0319999999999721 0  
## 2007-06-26 -2.88942203496845e-14 0  
## 2007-06-29 -2.98978619639456e-14 0  
## 2007-07-03 -2.93489677005709e-14 0  
## 2007-07-11 -2.90203416852819e-14 0  
## 2007-07-13 -2.95106161729564e-14 0  
## 2007-07-17 1 1  
## 2007-07-18 1.038 1  
## 2007-07-20 2.008 2  
## 2007-07-23 2.012 2  
## 2007-08-03 20 20  
## 2007-08-08 20 20  
## 2007-08-14 20 20  
## 2007-08-16 20 20  
## 2007-08-17 20 20  
## 2007-08-20 20 20  
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## 2007-09-05 -3.14361869868662e-14 0  
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## 2007-09-20 9 9  
## 2007-09-21 9 9  
## 2007-09-24 9 9  
## 2007-10-01 9 9  
## 2007-10-02 8.96 9  
## 2007-10-04 -3.16902060149005e-14 0  
## 2007-10-10 -3.17221804380097e-14 0  
## 2007-10-22 7 7  
## 2007-10-24 3 3  
## 2007-10-30 -2.93045587795859e-14 0  
## 2007-11-01 10 10  
## 2007-11-06 10 10  
## 2007-11-13 10 10  
## 2007-11-19 9 9  
## 2007-11-21 9 9  
## 2007-11-26 9 9  
## 2007-11-28 9 9  
## 2007-11-30 14 14  
## 2007-12-03 14 14  
## 2007-12-04 14 14  
## 2007-12-06 14 14  
## 2007-12-10 14 14  
## 2007-12-14 14 14  
## 2007-12-17 14 14  
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## 2008-01-07 11 11  
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## 2008-01-28 -3.17861292842281e-14 0  
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## 2008-02-15 25 25  
## 2008-02-28 25 25  
## 2008-03-17 25.008 25  
## 2008-03-19 25.008 25  
## 2008-03-20 24.402 25  
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## 2008-04-08 12.968 13  
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## 2008-04-22 13 13  
## 2008-04-24 13 13  
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## 2008-05-06 7 7  
## 2008-05-14 7 7  
## 2008-05-19 9.996 10  
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## 2008-06-10 20 20  
## 2008-06-13 20 20  
## 2008-06-16 20 20  
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## 2008-07-10 6 6  
## 2008-07-11 6 6  
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## 2008-08-06 -3.06279446249391e-14 0  
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## 2008-08-14 -3.11004555442196e-14 0  
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## 2008-09-09 4 4  
## 2008-09-10 4 4  
## 2008-09-11 4 4  
## 2008-09-12 4 4  
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## 2008-09-25 7 7  
## 2008-10-06 8 8  
## 2008-10-13 8 8  
## 2008-10-14 8 8  
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## 2008-10-24 -3.10116377022496e-14 0  
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## 2009-01-22 8 8  
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## 2009-05-11 16 16  
## 2009-05-14 16 16  
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## 2009-05-28 16 16  
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## 2009-11-04 14 14  
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## 2010-06-07 3 3  
## 2010-06-09 3 3  
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## 2010-08-16 9 9  
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## 2010-09-13 6 6  
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## 2011-02-03 7 7  
## 2011-02-04 7 7  
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## 2017-12-19 -3.05107050735387e-14 0  
## 2017-12-21 -2.85922396869864e-14 0  
## 2018-01-02 1 1  
## 2018-01-16 -2.48210341169397e-14 0  
## 2018-01-18 -1.93267624126747e-14 0  
## 2018-01-25 15 15  
## 2018-01-26 15 15  
## 2018-01-29 15 15  
## 2018-01-30 15 15  
## 2018-01-31 15 15  
## 2018-02-05 15 15  
## 2018-02-12 15 15  
## 2018-02-16 -3.24433813148062e-14 0  
## 2018-02-23 -3.07913694541639e-14 0  
## 2018-03-02 -3.10773629053074e-14 0  
## 2018-03-07 1 1  
## 2018-03-08 -2.77271539061985e-14 0  
## 2018-03-09 -2.60502730498047e-14 0  
## 2018-03-12 -2.5785595880734e-14 0  
## 2018-03-13 -2.58406629427554e-14 0  
## 2018-03-16 11 11  
## 2018-03-27 11 11  
## 2018-04-04 0.00599999999997034 0  
## 2018-04-09 10 10  
## 2018-04-10 10 10  
## 2018-05-08 3 3  
## 2018-05-10 3 3  
## 2018-05-11 -3.27613491890588e-14 0  
## 2018-05-14 -3.27613491890588e-14 0  
## 2018-05-16 -3.2544633654652e-14 0  
## 2018-05-17 -3.26174642850674e-14 0  
## 2018-05-23 -3.2526870086258e-14 0  
## 2018-06-06 1 1  
## 2018-06-07 1 1  
## 2018-06-08 1 1  
## 2018-06-11 18 18  
## 2018-06-12 18 18  
## 2018-06-15 18 18  
## 2018-06-18 18 18  
## 2018-06-19 18 18  
## 2018-06-22 18 18  
## 2018-06-25 18 18  
## 2018-06-26 18 18  
## 2018-07-03 18 18  
## 2018-07-06 18 18  
## 2018-07-10 6.994 7  
## 2018-07-12 7 7  
## 2018-07-13 7 7  
## 2018-07-16 7 7  
## 2018-07-24 -3.23687743275514e-14 0  
## 2018-07-27 -3.27826654711316e-14 0  
## 2018-07-30 -3.28093108237226e-14 0  
## 2018-08-07 10 10  
## 2018-08-16 10 10  
## 2018-08-21 -3.266897863341e-14 0  
## 2018-08-24 -3.26494387081766e-14 0  
## 2018-08-30 -3.24344995306092e-14 0  
## 2018-09-06 6 6  
## 2018-09-12 6 6  
## 2018-09-14 -3.1350921858575e-14 0  
## 2018-09-20 -3.08482128730247e-14 0  
## 2018-09-21 -3.05746539197571e-14 0  
## 2018-10-02 15 15  
## 2018-10-04 15 15  
## 2018-10-08 15 15  
## 2018-10-18 15 15  
## 2018-10-19 -3.24593685263608e-14 0  
## 2018-10-23 3 3  
## 2018-10-24 3 3  
## 2018-10-26 3.034 3  
## 2018-10-31 -3.20383719554229e-14 0  
## 2018-11-02 -3.121769509562e-14 0  
## 2018-11-07 -3.01483282783011e-14 0  
## 2018-11-12 -3.00701685773674e-14 0  
## 2018-11-14 -2.98268076903696e-14 0  
## 2018-11-26 1 1  
## 2018-12-07 15 15  
## 2018-12-12 15 15  
## 2018-12-14 15 15  
## 2018-12-18 15 15  
## 2018-12-24 15 15  
## 2019-01-03 1 1  
## 2019-01-10 2.014 2  
## 2019-01-14 -3.0924596217119e-14 0  
## 2019-01-15 1 1  
## 2019-01-23 1 1  
## 2019-01-28 -2.9446667326738e-14 0  
## 2019-01-29 -3.03970182358171e-14 0  
## 2019-01-30 -3.04041236631747e-14 0  
## 2019-02-01 -3.07025516121939e-14 0  
## 2019-02-05 -2.85496071228408e-14 0  
## 2019-02-15 9 9  
## 2019-02-27 -3.08162384499155e-14 0  
## 2019-03-01 14 14  
## 2019-03-08 14 14  
## 2019-03-19 14 14  
## 2019-03-21 5 5  
## 2019-03-22 5 5  
## 2019-03-29 -3.30011573623779e-14 0  
## 2019-04-02 -3.31379368390117e-14 0  
## 2019-04-18 6.994 7  
## 2019-04-23 7 7  
## 2019-04-26 7 7  
## 2019-04-29 7 7  
## 2019-04-30 7 7  
## 2019-05-03 -3.14788195510118e-14 0  
## 2019-05-07 2 2  
## 2019-05-09 2 2  
## 2019-05-16 16 16  
## 2019-05-20 16 16  
## 2019-05-29 16 16  
## 2019-05-31 16 16  
## 2019-06-03 16 16  
## 2019-06-07 -3.30153682170931e-14 0  
## 2019-06-28 5.008 5  
## 2019-07-01 -3.20703463785321e-14 0  
## 2019-07-10 -3.19371196155771e-14 0  
## 2019-07-12 -3.16493498075943e-14 0  
## 2019-07-16 -3.13491455017356e-14 0  
## 2019-07-19 2 2  
## 2019-07-30 25 25  
## 2019-07-31 25 25  
## 2019-08-01 25 25  
## 2019-08-05 25 25  
## 2019-08-07 25 25  
## 2019-08-09 25 25  
## 2019-08-14 25 25  
## 2019-08-16 25 25  
## 2019-08-19 25 25  
## 2019-08-20 25 25  
## 2019-08-22 25 25  
## 2019-08-27 25 25  
## 2019-08-30 2 2  
## 2019-09-04 -3.05284686419327e-14 0  
## 2019-09-09 -3.16138226708063e-14 0  
## 2019-09-10 -3.17808002137099e-14 0  
## 2019-09-13 -3.16227044550033e-14 0  
## 2019-09-16 -3.06243919112603e-14 0  
## 2019-09-17 -3.15427683972303e-14 0  
## 2019-09-18 14 14  
## 2019-09-23 14 14  
## 2019-09-24 14 14  
## 2019-09-25 14 14  
## 2019-10-02 14 14  
## 2019-10-08 14 14  
## 2019-10-15 -3.06350500522967e-14 0  
## 2019-10-18 -3.02353697634317e-14 0  
## 2019-10-22 -3.01820790582497e-14 0  
## 2019-10-24 -3.05959702018299e-14 0  
## 2019-10-29 -3.02424751907893e-14 0  
## 2019-11-01 -2.91233703819671e-14 0  
## 2019-11-14 8 8  
## 2019-11-19 8 8  
## 2019-11-22 -2.9482194463526e-14 0  
## 2019-11-26 -2.95603541644596e-14 0  
## 2019-11-29 9 9  
## 2019-12-02 9 9  
## 2019-12-06 9 9  
## 2019-12-11 8.98 9  
## 2019-12-13 -2.88764567812905e-14 0  
## 2019-12-16 -2.90789614609821e-14 0  
## 2019-12-18 -2.89297474864725e-14 0  
## 2019-12-20 -2.95905522307294e-14 0  
## 2019-12-27 -2.75584000064555e-14 0  
## 2020-01-02 8 8  
## 2020-01-03 8 8  
## 2020-01-06 8 8  
## 2020-01-09 8 8  
## 2020-01-14 8 8  
## 2020-01-17 2 2  
## 2020-01-31 2 2  
## 2020-02-03 2 2  
## 2020-02-11 -2.23714380354068e-14 0  
## 2020-02-12 -2.03019823175055e-14 0  
## 2020-02-19 14 14  
## 2020-02-20 14 14  
## 2020-02-21 14 14  
## 2020-02-28 14 14  
## 2020-03-06 14 14  
## results 0.31 100

knnMod <- train(incrDaysThisCycle ~ .,  
 method='knn', preProcess=c('center','scale'),  
 tuneLength=10, trControl=trainControl(method='cv'), data=trainingSet)

plot(knnMod)



rpartMod <- train(incrDaysThisCycle ~ ., method='rpart', tuneLength=9, data=trainingSet)

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

glmMod <- train(incrDaysThisCycle ~ .,   
 method='glm', data=trainingSet)

predKNN <- predict(knnMod, testingSet)  
predRPART <- predict(rpartMod, testingSet)

predGLM <- predict(glmMod, testingSet)

length=length(testingSet$incrDaysThisCycle)

sumKNN <- sum(predKNN==testingSet$incrDaysThisCycle)  
sumRPart <- sum(predRPART==testingSet$incrDaysThisCycle)

sumGLM <- sum(predGLM==testingSet$incrDaysThisCycle)

accuracy\_KNN <- sumKNN/length   
accuracy\_RPART <- sumRPart/length

accuracy\_GLM <- sumGLM/length

predDF2 <- data.frame(predRF,predKNN,predRPART,predGLM,   
 IncreasingDaysThisCycle=testingSet$incrDaysThisCycle)  
colnames(predDF2) <- c('RandomForest','KNN','Rpart','GLM','IncreasingDaysThisCycle')  
  
results <- c(round(accuracy\_rfMod,2),   
 round(accuracy\_KNN,2),   
 round(accuracy\_RPART,2),  
 round(accuracy\_GLM,2),   
 round(100,2))  
  
results <- as.factor(results)  
results <- t(data.frame(results))  
colnames(results) <- c('RandomForest','KNN','Rpart','GLM','IncreasingDaysThisCycle')  
Results <- rbind(predDF2, results)   
Results

## RandomForest KNN Rpart  
## 2007-01-16 0.265999999999992 0 0.0725581395348837  
## 2007-01-17 1.188 4.4 0.0725581395348837  
## 2007-01-22 8.008 7.4 7.30805687203791  
## 2007-01-23 8.024 7.4 7.30805687203791  
## 2007-01-24 8.04 7.4 7.30805687203791  
## 2007-01-26 8.04 7.4 7.30805687203791  
## 2007-01-29 8.04 7.4 7.30805687203791  
## 2007-01-31 8.008 8.2 7.30805687203791  
## 2007-02-08 -1.55662149836644e-14 0 0.0725581395348837  
## 2007-02-09 -2.04600780762121e-14 0 0.0725581395348837  
## 2007-02-16 25 25 25  
## 2007-02-27 25 25 25  
## 2007-03-02 25 25 25  
## 2007-03-07 25 25 25  
## 2007-03-12 25 25 25  
## 2007-03-14 25 25 25  
## 2007-03-19 25 25 25  
## 2007-03-21 24.804 23.5 25  
## 2007-03-22 0.0299999999999766 0 0.0725581395348837  
## 2007-03-29 3.994 5.8 5.08849557522124  
## 2007-04-02 4 4.2 5.08849557522124  
## 2007-04-04 1.034 3.4 0.0725581395348837  
## 2007-04-05 0.0299999999999765 0 0.0725581395348837  
## 2007-04-09 0.0299999999999767 0 0.0725581395348837  
## 2007-04-13 7 6.4 7.30805687203791  
## 2007-04-16 7 6.4 7.30805687203791  
## 2007-04-26 21 21 19.9025974025974  
## 2007-04-27 21 21 19.9025974025974  
## 2007-05-03 21 21 19.9025974025974  
## 2007-05-11 21 21 19.9025974025974  
## 2007-05-18 21 21 19.9025974025974  
## 2007-05-29 -2.66382471636462e-14 0 0.0725581395348837  
## 2007-06-04 12 12 9.98606271777003  
## 2007-06-05 12 12 9.98606271777003  
## 2007-06-12 12 12 9.98606271777003  
## 2007-06-13 12 12 9.98606271777003  
## 2007-06-15 12 12 9.98606271777003  
## 2007-06-18 12 11.6 9.98606271777003  
## 2007-06-20 0.0319999999999721 0 0.0725581395348837  
## 2007-06-26 -2.88942203496845e-14 0 0.0725581395348837  
## 2007-06-29 -2.98978619639456e-14 0 0.0725581395348837  
## 2007-07-03 -2.93489677005709e-14 0 0.0725581395348837  
## 2007-07-11 -2.90203416852819e-14 0 0.0725581395348837  
## 2007-07-13 -2.95106161729564e-14 0 0.0725581395348837  
## 2007-07-17 1 0.2 0.0725581395348837  
## 2007-07-18 1.038 4.6 0.0725581395348837  
## 2007-07-20 2.008 4.2 2.4468085106383  
## 2007-07-23 2.012 4.6 2.4468085106383  
## 2007-08-03 20 20 19.9025974025974  
## 2007-08-08 20 20 19.9025974025974  
## 2007-08-14 20 20 19.9025974025974  
## 2007-08-16 20 20 19.9025974025974  
## 2007-08-17 20 20 19.9025974025974  
## 2007-08-20 20 20 19.9025974025974  
## 2007-08-27 -3.12478931618898e-14 0 0.0725581395348837  
## 2007-09-05 -3.14361869868662e-14 0 0.0725581395348837  
## 2007-09-13 5 5.8 5.08849557522124  
## 2007-09-20 9 8.6 9.98606271777003  
## 2007-09-21 9 9.2 9.98606271777003  
## 2007-09-24 9 9.2 9.98606271777003  
## 2007-10-01 9 9.2 9.98606271777003  
## 2007-10-02 8.96 9 9.98606271777003  
## 2007-10-04 -3.16902060149005e-14 0 0.0725581395348837  
## 2007-10-10 -3.17221804380097e-14 0 0.0725581395348837  
## 2007-10-22 7 7 7.30805687203791  
## 2007-10-24 3 7 2.4468085106383  
## 2007-10-30 -2.93045587795859e-14 0 0.0725581395348837  
## 2007-11-01 10 9.4 9.98606271777003  
## 2007-11-06 10 10 9.98606271777003  
## 2007-11-13 10 10 9.98606271777003  
## 2007-11-19 9 9.2 9.98606271777003  
## 2007-11-21 9 9.2 9.98606271777003  
## 2007-11-26 9 9.2 9.98606271777003  
## 2007-11-28 9 9.2 9.98606271777003  
## 2007-11-30 14 11.8 14.6610878661088  
## 2007-12-03 14 14 14.6610878661088  
## 2007-12-04 14 14 14.6610878661088  
## 2007-12-06 14 14 14.6610878661088  
## 2007-12-10 14 14 14.6610878661088  
## 2007-12-14 14 14 14.6610878661088  
## 2007-12-17 14 14 14.6610878661088  
## 2008-01-03 11 11 9.98606271777003  
## 2008-01-07 11 11 9.98606271777003  
## 2008-01-16 -3.12301295934958e-14 0 0.0725581395348837  
## 2008-01-23 -2.90381052536759e-14 0 0.0725581395348837  
## 2008-01-24 1 1.4 0.0725581395348837  
## 2008-01-28 -3.17861292842281e-14 0 0.0725581395348837  
## 2008-01-31 -3.18571835578041e-14 0 0.0725581395348837  
## 2008-02-07 -3.19619886113287e-14 0 0.0725581395348837  
## 2008-02-11 1 1.6 0.0725581395348837  
## 2008-02-15 25 25 25  
## 2008-02-28 25 25 25  
## 2008-03-17 25.008 25 25  
## 2008-03-19 25.008 25 25  
## 2008-03-20 24.402 20 25  
## 2008-03-31 -3.04236635884081e-14 0 0.0725581395348837  
## 2008-04-03 -3.05728775629177e-14 0 0.0725581395348837  
## 2008-04-07 -3.06759062596029e-14 0 0.0725581395348837  
## 2008-04-08 12.968 10 14.6610878661088  
## 2008-04-10 13 13 14.6610878661088  
## 2008-04-22 13 13 14.6610878661088  
## 2008-04-24 13 13 14.6610878661088  
## 2008-04-28 -3.06616954048877e-14 0 0.0725581395348837  
## 2008-05-06 7 5.8 7.30805687203791  
## 2008-05-14 7 7 7.30805687203791  
## 2008-05-19 9.996 9.2 9.98606271777003  
## 2008-05-20 10 10 9.98606271777003  
## 2008-05-29 10 10 9.98606271777003  
## 2008-06-10 20 20 19.9025974025974  
## 2008-06-13 20 20 19.9025974025974  
## 2008-06-16 20 20 19.9025974025974  
## 2008-06-20 20 20 19.9025974025974  
## 2008-06-23 20 20 19.9025974025974  
## 2008-06-25 20 20 19.9025974025974  
## 2008-06-27 20 20 19.9025974025974  
## 2008-07-08 -2.59863242035863e-14 0 0.0725581395348837  
## 2008-07-09 5.992 6.4 5.08849557522124  
## 2008-07-10 6 6.4 5.08849557522124  
## 2008-07-11 6 6.4 5.08849557522124  
## 2008-07-29 -3.04076763768535e-14 0 0.0725581395348837  
## 2008-08-04 -3.05497849240055e-14 0 0.0725581395348837  
## 2008-08-05 -3.06279446249391e-14 0 0.0725581395348837  
## 2008-08-06 -3.06279446249391e-14 0 0.0725581395348837  
## 2008-08-08 -3.09494652128706e-14 0 0.0725581395348837  
## 2008-08-14 -3.11004555442196e-14 0 0.0725581395348837  
## 2008-08-18 6.986 6.6 7.30805687203791  
## 2008-09-02 -3.07309733216243e-14 0 0.0725581395348837  
## 2008-09-03 1 1.8 0.0725581395348837  
## 2008-09-05 -2.92708079996373e-14 0 0.0725581395348837  
## 2008-09-08 4 3.4 5.08849557522124  
## 2008-09-09 4 4.4 5.08849557522124  
## 2008-09-10 4 4 5.08849557522124  
## 2008-09-11 4 4.83333333333333 5.08849557522124  
## 2008-09-12 4 3.8 5.08849557522124  
## 2008-09-16 0.0139999999999689 0 0.0725581395348837  
## 2008-09-18 -3.10471648390376e-14 0 0.0725581395348837  
## 2008-09-22 7 7 7.30805687203791  
## 2008-09-25 7 7 7.30805687203791  
## 2008-10-06 8 7.8 7.30805687203791  
## 2008-10-13 8 7.8 7.30805687203791  
## 2008-10-14 8 7.8 7.30805687203791  
## 2008-10-17 -3.07682768152517e-14 0 0.0725581395348837  
## 2008-10-21 -3.10116377022496e-14 0 0.0725581395348837  
## 2008-10-24 -3.10116377022496e-14 0 0.0725581395348837  
## 2008-10-28 -3.10915737600226e-14 0 0.0725581395348837  
## 2008-10-30 -3.10915737600226e-14 0 0.0725581395348837  
## 2008-11-07 13 13 14.6610878661088  
## 2008-11-18 13 13 14.6610878661088  
## 2008-11-20 12.974 13 14.6610878661088  
## 2008-11-21 12.974 13 14.6610878661088  
## 2008-11-25 2.014 1.4 2.4468085106383  
## 2008-12-10 -3.1421976132151e-14 0 0.0725581395348837  
## 2008-12-15 3 3.2 2.4468085106383  
## 2008-12-23 -3.04929415051447e-14 0 0.0725581395348837  
## 2008-12-24 -3.07274206079455e-14 0 0.0725581395348837  
## 2008-12-30 -3.06492609070119e-14 0 0.0725581395348837  
## 2008-12-31 -3.07665004584123e-14 0 0.0725581395348837  
## 2009-01-02 -3.08943981508492e-14 0 0.0725581395348837  
## 2009-01-06 -3.08943981508492e-14 0 0.0725581395348837  
## 2009-01-13 8 7.6 7.30805687203791  
## 2009-01-15 8 7.8 7.30805687203791  
## 2009-01-21 8 7.8 7.30805687203791  
## 2009-01-22 8 7.8 7.30805687203791  
## 2009-02-02 30 30 29.4772727272727  
## 2009-02-03 30 30 29.4772727272727  
## 2009-02-11 30 30 29.4772727272727  
## 2009-02-17 30 30 29.4772727272727  
## 2009-02-19 30 30 29.4772727272727  
## 2009-02-20 30 30 29.4772727272727  
## 2009-02-25 30 30 29.4772727272727  
## 2009-02-26 30 30 29.4772727272727  
## 2009-03-04 30 30 29.4772727272727  
## 2009-03-09 30 30 29.4772727272727  
## 2009-03-12 -2.89492874117059e-14 0 0.0725581395348837  
## 2009-03-18 -2.99387181712518e-14 0 0.0725581395348837  
## 2009-03-20 7 7.4 7.30805687203791  
## 2009-03-24 7 7.4 7.30805687203791  
## 2009-03-26 7 7.4 7.30805687203791  
## 2009-03-31 1 1.4 0.0725581395348837  
## 2009-04-01 1 4.6 0.0725581395348837  
## 2009-04-07 -2.92086355102583e-14 0 0.0725581395348837  
## 2009-04-08 -2.92867952111919e-14 0 0.0725581395348837  
## 2009-04-13 -2.97433189189178e-14 0 0.0725581395348837  
## 2009-04-14 -2.95994340149264e-14 0 0.0725581395348837  
## 2009-04-15 -2.97433189189178e-14 0 0.0725581395348837  
## 2009-04-16 -2.9899638320785e-14 0 0.0725581395348837  
## 2009-04-17 -2.99777980217186e-14 0 0.0725581395348837  
## 2009-04-24 -3.07238678942667e-14 0 0.0725581395348837  
## 2009-04-28 0.998 1 0.0725581395348837  
## 2009-05-01 3 3.2 2.4468085106383  
## 2009-05-06 -3.02708969002197e-14 0 0.0725581395348837  
## 2009-05-07 16 14 14.6610878661088  
## 2009-05-08 16 16 14.6610878661088  
## 2009-05-11 16 16 14.6610878661088  
## 2009-05-14 16 16 14.6610878661088  
## 2009-05-26 16 16 14.6610878661088  
## 2009-05-28 16 16 14.6610878661088  
## 2009-06-03 1 1.4 0.0725581395348837  
## 2009-06-05 -2.90043544737273e-14 0 0.0725581395348837  
## 2009-06-16 16 16 14.6610878661088  
## 2009-06-19 16 16 14.6610878661088  
## 2009-06-23 16 16 14.6610878661088  
## 2009-06-30 16 16 14.6610878661088  
## 2009-07-09 10 10 9.98606271777003  
## 2009-07-10 10 10 9.98606271777003  
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## 2016-03-24 13.9999999999998 14  
## 2016-03-31 13.9999999999998 14  
## 2016-04-13 -1.88974747521925e-13 0  
## 2016-04-20 -1.896408813367e-13 0  
## 2016-04-26 20.9999999999999 21  
## 2016-04-27 20.9999999999999 21  
## 2016-05-11 20.9999999999999 21  
## 2016-05-16 20.9999999999999 21  
## 2016-05-17 20.9999999999999 21  
## 2016-05-18 20.9999999999999 21  
## 2016-05-19 20.9999999999999 21  
## 2016-05-26 6.99999999999985 7  
## 2016-05-27 6.99999999999985 7  
## 2016-06-01 6.99999999999985 7  
## 2016-06-03 6.99999999999985 7  
## 2016-06-08 -1.82979543188949e-13 0  
## 2016-06-16 14.9999999999999 15  
## 2016-06-23 14.9999999999999 15  
## 2016-06-28 14.9999999999999 15  
## 2016-07-07 -1.66104153214646e-13 0  
## 2016-07-14 -1.78760695695373e-13 0  
## 2016-07-15 -1.78316606485523e-13 0  
## 2016-07-19 -1.77650472670748e-13 0  
## 2016-07-20 -1.76984338855973e-13 0  
## 2016-07-21 -1.74319803596872e-13 0  
## 2016-07-29 0.999999999999816 1  
## 2016-08-03 6.99999999999984 7  
## 2016-08-08 6.99999999999984 7  
## 2016-08-11 -1.81203186349548e-13 0  
## 2016-08-17 -1.83201587793874e-13 0  
## 2016-08-30 -1.96968353299226e-13 0  
## 2016-09-07 -1.9363768422535e-13 0  
## 2016-09-13 8.99999999999983 9  
## 2016-09-21 8.99999999999984 9  
## 2016-09-26 8.99999999999984 9  
## 2016-09-27 -1.80315007929848e-13 0  
## 2016-09-30 -1.80092963324923e-13 0  
## 2016-10-10 -1.82757498584024e-13 0  
## 2016-10-11 0.999999999999834 1  
## 2016-10-12 0.999999999999833 1  
## 2016-10-13 -1.82979543188949e-13 0  
## 2016-10-18 -1.81869320164324e-13 0  
## 2016-10-21 -1.81869320164324e-13 0  
## 2016-10-25 -1.80537052534773e-13 0  
## 2016-10-28 0.999999999999814 1  
## 2016-10-31 2.99999999999982 3  
## 2016-11-01 2.99999999999983 3  
## 2016-11-04 -1.68102554658972e-13 0  
## 2016-11-07 -1.71655268337772e-13 0  
## 2016-11-17 -1.78094561880598e-13 0  
## 2016-11-18 -1.78538651090448e-13 0  
## 2016-11-22 -1.77428428065823e-13 0  
## 2016-11-28 -1.76984338855973e-13 0  
## 2016-11-30 0.999999999999839 1  
## 2016-12-06 1.99999999999982 2  
## 2016-12-13 -1.97412442509076e-13 0  
## 2016-12-16 0.999999999999805 1  
## 2016-12-22 -2.01187200792801e-13 0  
## 2016-12-27 -2.00299022373101e-13 0  
## 2017-01-17 -1.931935950155e-13 0  
## 2017-01-18 -1.94747907249975e-13 0  
## 2017-01-24 2.99999999999981 3  
## 2017-01-26 7.99999999999981 8  
## 2017-01-27 7.99999999999983 8  
## 2017-01-31 7.99999999999983 8  
## 2017-02-03 7.99999999999983 8  
## 2017-02-06 7.99999999999983 8  
## 2017-02-09 -1.9097314896625e-13 0  
## 2017-02-13 -1.92527461200725e-13 0  
## 2017-02-17 -1.896408813367e-13 0  
## 2017-02-27 4.99999999999983 5  
## 2017-03-03 12.9999999999998 13  
## 2017-03-08 12.9999999999998 13  
## 2017-03-09 12.9999999999998 13  
## 2017-03-10 12.9999999999998 13  
## 2017-03-14 12.9999999999998 13  
## 2017-03-17 12.9999999999998 13  
## 2017-03-21 12.9999999999998 13  
## 2017-03-22 12.9999999999998 13  
## 2017-03-29 -1.92083371990875e-13 0  
## 2017-04-04 4.99999999999984 5  
## 2017-04-05 4.99999999999983 5  
## 2017-04-10 4.99999999999983 5  
## 2017-04-12 -1.84533855423424e-13 0  
## 2017-04-25 -1.86976346077599e-13 0  
## 2017-05-02 5.99999999999983 6  
## 2017-05-08 -1.931935950155e-13 0  
## 2017-05-19 3.99999999999983 4  
## 2017-05-23 -1.83201587793874e-13 0  
## 2017-05-24 -1.82979543188949e-13 0  
## 2017-05-31 -1.84977944633274e-13 0  
## 2017-06-01 -1.85866123052974e-13 0  
## 2017-06-02 -1.86532256867749e-13 0  
## 2017-06-06 -1.86088167657899e-13 0  
## 2017-06-09 -1.86088167657899e-13 0  
## 2017-06-19 11.9999999999998 12  
## 2017-06-23 11.9999999999998 12  
## 2017-06-27 11.9999999999998 12  
## 2017-06-30 -1.9186132738595e-13 0  
## 2017-07-06 -1.9452586264505e-13 0  
## 2017-07-11 -1.92083371990875e-13 0  
## 2017-07-18 0.999999999999821 1  
## 2017-07-21 10.9999999999998 11  
## 2017-08-07 17.9999999999998 18  
## 2017-08-08 17.9999999999998 18  
## 2017-08-10 17.9999999999998 18  
## 2017-08-23 17.9999999999998 18  
## 2017-08-28 17.9999999999998 18  
## 2017-09-08 2.99999999999982 3  
## 2017-09-26 -1.77206383460898e-13 0  
## 2017-09-27 -1.75207982016573e-13 0  
## 2017-10-02 -1.75652071226423e-13 0  
## 2017-10-04 -1.81425230954473e-13 0  
## 2017-10-11 -1.84089766213574e-13 0  
## 2017-10-12 -1.83201587793874e-13 0  
## 2017-10-17 -1.80537052534773e-13 0  
## 2017-10-19 19.9999999999998 20  
## 2017-10-20 19.9999999999998 20  
## 2017-10-24 19.9999999999998 20  
## 2017-11-03 19.9999999999998 20  
## 2017-11-07 19.9999999999998 20  
## 2017-11-15 19.9999999999999 20  
## 2017-11-27 -1.5833259204227e-13 0  
## 2017-12-07 -1.60330993486595e-13 0  
## 2017-12-08 -1.6010894888167e-13 0  
## 2017-12-15 -1.58110547437345e-13 0  
## 2017-12-19 -1.58110547437345e-13 0  
## 2017-12-21 -1.60330993486595e-13 0  
## 2018-01-02 0.999999999999857 1  
## 2018-01-16 -2.08070583545477e-13 0  
## 2018-01-18 -2.08070583545477e-13 0  
## 2018-01-25 14.9999999999998 15  
## 2018-01-26 14.9999999999998 15  
## 2018-01-29 14.9999999999998 15  
## 2018-01-30 14.9999999999998 15  
## 2018-01-31 14.9999999999998 15  
## 2018-02-05 14.9999999999998 15  
## 2018-02-12 14.9999999999998 15  
## 2018-02-16 -1.87642479892374e-13 0  
## 2018-02-23 -1.9008497054655e-13 0  
## 2018-03-02 -1.87420435287449e-13 0  
## 2018-03-07 0.99999999999981 1  
## 2018-03-08 -2.02519468422351e-13 0  
## 2018-03-09 -2.04961959076527e-13 0  
## 2018-03-12 -2.05628092891302e-13 0  
## 2018-03-13 -2.04517869866677e-13 0  
## 2018-03-16 10.9999999999998 11  
## 2018-03-27 10.9999999999998 11  
## 2018-04-04 -2.06738315915927e-13 0  
## 2018-04-09 9.99999999999983 10  
## 2018-04-10 9.99999999999984 10  
## 2018-05-08 2.99999999999983 3  
## 2018-05-10 2.99999999999984 3  
## 2018-05-11 -1.77206383460898e-13 0  
## 2018-05-14 -1.76318205041198e-13 0  
## 2018-05-16 -1.79204784905223e-13 0  
## 2018-05-17 -1.77650472670748e-13 0  
## 2018-05-23 -1.74097758991947e-13 0  
## 2018-06-06 0.999999999999818 1  
## 2018-06-07 0.999999999999822 1  
## 2018-06-08 0.999999999999821 1  
## 2018-06-11 17.9999999999998 18  
## 2018-06-12 17.9999999999999 18  
## 2018-06-15 17.9999999999999 18  
## 2018-06-18 17.9999999999999 18  
## 2018-06-19 17.9999999999999 18  
## 2018-06-22 17.9999999999999 18  
## 2018-06-25 17.9999999999999 18  
## 2018-06-26 17.9999999999999 18  
## 2018-07-03 17.9999999999999 18  
## 2018-07-06 17.9999999999998 18  
## 2018-07-10 6.99999999999983 7  
## 2018-07-12 6.99999999999985 7  
## 2018-07-13 6.99999999999985 7  
## 2018-07-16 6.99999999999985 7  
## 2018-07-24 -1.69878911498372e-13 0  
## 2018-07-27 -1.73653669782097e-13 0  
## 2018-07-30 -1.71655268337772e-13 0  
## 2018-08-07 9.99999999999985 10  
## 2018-08-16 9.99999999999985 10  
## 2018-08-21 -1.75207982016573e-13 0  
## 2018-08-24 -1.70323000708222e-13 0  
## 2018-08-30 -1.72099357547622e-13 0  
## 2018-09-06 5.99999999999985 6  
## 2018-09-12 5.99999999999984 6  
## 2018-09-14 -1.74763892806723e-13 0  
## 2018-09-20 -1.78094561880598e-13 0  
## 2018-09-21 -1.81425230954473e-13 0  
## 2018-10-02 14.9999999999999 15  
## 2018-10-04 14.9999999999999 15  
## 2018-10-08 14.9999999999999 15  
## 2018-10-18 14.9999999999999 15  
## 2018-10-19 -1.72099357547622e-13 0  
## 2018-10-23 2.99999999999985 3  
## 2018-10-24 2.99999999999986 3  
## 2018-10-26 2.99999999999986 3  
## 2018-10-31 -1.5877668125212e-13 0  
## 2018-11-02 -1.60553038091521e-13 0  
## 2018-11-07 -1.60553038091521e-13 0  
## 2018-11-12 -1.58998725857045e-13 0  
## 2018-11-14 -1.60997127301371e-13 0  
## 2018-11-26 0.999999999999833 1  
## 2018-12-07 14.9999999999999 15  
## 2018-12-12 14.9999999999999 15  
## 2018-12-14 14.9999999999999 15  
## 2018-12-18 14.9999999999999 15  
## 2018-12-24 14.9999999999999 15  
## 2019-01-03 0.999999999999845 1  
## 2019-01-10 1.99999999999985 2  
## 2019-01-14 -1.72543446757472e-13 0  
## 2019-01-15 0.999999999999842 1  
## 2019-01-23 0.999999999999854 1  
## 2019-01-28 -1.67436420844196e-13 0  
## 2019-01-29 -1.66326197819571e-13 0  
## 2019-01-30 -1.66104153214646e-13 0  
## 2019-02-01 -1.64549840980171e-13 0  
## 2019-02-05 -1.65660064004796e-13 0  
## 2019-02-15 8.99999999999986 9  
## 2019-02-27 -1.78316606485523e-13 0  
## 2019-03-01 13.9999999999999 14  
## 2019-03-08 13.9999999999999 14  
## 2019-03-19 13.9999999999999 14  
## 2019-03-21 4.99999999999984 5  
## 2019-03-22 4.99999999999986 5  
## 2019-03-29 -1.62329394930921e-13 0  
## 2019-04-02 -1.64327796375246e-13 0  
## 2019-04-18 6.99999999999984 7  
## 2019-04-23 6.99999999999985 7  
## 2019-04-26 6.99999999999985 7  
## 2019-04-29 6.99999999999985 7  
## 2019-04-30 6.99999999999983 7  
## 2019-05-03 -1.81647275559398e-13 0  
## 2019-05-07 1.99999999999984 2  
## 2019-05-09 1.99999999999983 2  
## 2019-05-16 15.9999999999999 16  
## 2019-05-20 15.9999999999999 16  
## 2019-05-29 15.9999999999999 16  
## 2019-05-31 15.9999999999999 16  
## 2019-06-03 15.9999999999999 16  
## 2019-06-07 -1.60330993486595e-13 0  
## 2019-06-28 4.99999999999986 5  
## 2019-07-01 -1.60553038091521e-13 0  
## 2019-07-10 -1.58110547437345e-13 0  
## 2019-07-12 -1.58998725857045e-13 0  
## 2019-07-16 -1.5922077046197e-13 0  
## 2019-07-19 1.99999999999986 2  
## 2019-07-30 24.9999999999999 25  
## 2019-07-31 24.9999999999999 25  
## 2019-08-01 24.9999999999999 25  
## 2019-08-05 24.9999999999999 25  
## 2019-08-07 24.9999999999999 25  
## 2019-08-09 24.9999999999999 25  
## 2019-08-14 24.9999999999999 25  
## 2019-08-16 24.9999999999999 25  
## 2019-08-19 24.9999999999999 25  
## 2019-08-20 24.9999999999999 25  
## 2019-08-22 24.9999999999999 25  
## 2019-08-27 24.9999999999999 25  
## 2019-08-30 1.99999999999985 2  
## 2019-09-04 -1.58554636647195e-13 0  
## 2019-09-09 -1.60330993486595e-13 0  
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## 2019-09-13 -1.62107350325996e-13 0  
## 2019-09-16 -1.56334190597945e-13 0  
## 2019-09-17 -1.5788850283242e-13 0  
## 2019-09-18 13.9999999999999 14  
## 2019-09-23 13.9999999999999 14  
## 2019-09-24 13.9999999999999 14  
## 2019-09-25 13.9999999999999 14  
## 2019-10-02 13.9999999999999 14  
## 2019-10-08 13.9999999999999 14  
## 2019-10-15 -1.45009915746768e-13 0  
## 2019-10-18 -1.43455603512293e-13 0  
## 2019-10-22 -1.42567425092593e-13 0  
## 2019-10-24 -1.44343781931993e-13 0  
## 2019-10-29 -1.46564227981244e-13 0  
## 2019-11-01 -1.44343781931993e-13 0  
## 2019-11-14 7.99999999999986 8  
## 2019-11-19 7.99999999999986 8  
## 2019-11-22 -1.70767089918072e-13 0  
## 2019-11-26 -1.70767089918072e-13 0  
## 2019-11-29 8.99999999999986 9  
## 2019-12-02 8.99999999999986 9  
## 2019-12-06 8.99999999999986 9  
## 2019-12-11 8.99999999999987 9  
## 2019-12-13 -1.53669655338845e-13 0  
## 2019-12-16 -1.5433578915362e-13 0  
## 2019-12-18 -1.53669655338845e-13 0  
## 2019-12-20 -1.55001922968395e-13 0  
## 2019-12-27 -1.51893298499444e-13 0  
## 2020-01-02 7.99999999999986 8  
## 2020-01-03 7.99999999999986 8  
## 2020-01-06 7.99999999999986 8  
## 2020-01-09 7.99999999999986 8  
## 2020-01-14 7.99999999999985 8  
## 2020-01-17 1.99999999999984 2  
## 2020-01-31 1.99999999999986 2  
## 2020-02-03 1.99999999999986 2  
## 2020-02-11 -1.60553038091521e-13 0  
## 2020-02-12 -1.61441216511221e-13 0  
## 2020-02-19 13.9999999999999 14  
## 2020-02-20 13.9999999999999 14  
## 2020-02-21 13.9999999999999 14  
## 2020-02-28 13.9999999999999 14  
## 2020-03-06 13.9999999999999 14  
## results 0 100

When looking at the above table, the errors are based on an exact match, but the values you notice as I do, are rounded up to the true value if greater than zero and zero if less than zero will give very near perfect results for predicting the number of days the cycle will be increasing. Lets test this out.

predRF\_round <- predict(rfMod, testingSet)  
  
predRF\_round <- ifelse(predRF\_round<0,0,round(predRF,0))  
  
predDF\_round <- data.frame(predRF\_round, IncreasingDaysThisCycle=testingSet$incrDaysThisCycle)  
predDF\_round

## predRF\_round IncreasingDaysThisCycle  
## 2007-01-16 0 0  
## 2007-01-17 1 1  
## 2007-01-22 8 8  
## 2007-01-23 8 8  
## 2007-01-24 8 8  
## 2007-01-26 8 8  
## 2007-01-29 8 8  
## 2007-01-31 8 8  
## 2007-02-08 0 0  
## 2007-02-09 0 0  
## 2007-02-16 25 25  
## 2007-02-27 25 25  
## 2007-03-02 25 25  
## 2007-03-07 25 25  
## 2007-03-12 25 25  
## 2007-03-14 25 25  
## 2007-03-19 25 25  
## 2007-03-21 25 25  
## 2007-03-22 0 0  
## 2007-03-29 4 4  
## 2007-04-02 4 4  
## 2007-04-04 1 1  
## 2007-04-05 0 0  
## 2007-04-09 0 0  
## 2007-04-13 7 7  
## 2007-04-16 7 7  
## 2007-04-26 21 21  
## 2007-04-27 21 21  
## 2007-05-03 21 21  
## 2007-05-11 21 21  
## 2007-05-18 21 21  
## 2007-05-29 0 0  
## 2007-06-04 12 12  
## 2007-06-05 12 12  
## 2007-06-12 12 12  
## 2007-06-13 12 12  
## 2007-06-15 12 12  
## 2007-06-18 12 12  
## 2007-06-20 0 0  
## 2007-06-26 0 0  
## 2007-06-29 0 0  
## 2007-07-03 0 0  
## 2007-07-11 0 0  
## 2007-07-13 0 0  
## 2007-07-17 1 1  
## 2007-07-18 1 1  
## 2007-07-20 2 2  
## 2007-07-23 2 2  
## 2007-08-03 20 20  
## 2007-08-08 20 20  
## 2007-08-14 20 20  
## 2007-08-16 20 20  
## 2007-08-17 20 20  
## 2007-08-20 20 20  
## 2007-08-27 0 0  
## 2007-09-05 0 0  
## 2007-09-13 5 5  
## 2007-09-20 9 9  
## 2007-09-21 9 9  
## 2007-09-24 9 9  
## 2007-10-01 9 9  
## 2007-10-02 9 9  
## 2007-10-04 0 0  
## 2007-10-10 0 0  
## 2007-10-22 7 7  
## 2007-10-24 3 3  
## 2007-10-30 0 0  
## 2007-11-01 10 10  
## 2007-11-06 10 10  
## 2007-11-13 10 10  
## 2007-11-19 9 9  
## 2007-11-21 9 9  
## 2007-11-26 9 9  
## 2007-11-28 9 9  
## 2007-11-30 14 14  
## 2007-12-03 14 14  
## 2007-12-04 14 14  
## 2007-12-06 14 14  
## 2007-12-10 14 14  
## 2007-12-14 14 14  
## 2007-12-17 14 14  
## 2008-01-03 11 11  
## 2008-01-07 11 11  
## 2008-01-16 0 0  
## 2008-01-23 0 0  
## 2008-01-24 1 1  
## 2008-01-28 0 0  
## 2008-01-31 0 0  
## 2008-02-07 0 0  
## 2008-02-11 1 1  
## 2008-02-15 25 25  
## 2008-02-28 25 25  
## 2008-03-17 25 25  
## 2008-03-19 25 25  
## 2008-03-20 24 25  
## 2008-03-31 0 0  
## 2008-04-03 0 0  
## 2008-04-07 0 0  
## 2008-04-08 13 13  
## 2008-04-10 13 13  
## 2008-04-22 13 13  
## 2008-04-24 13 13  
## 2008-04-28 0 0  
## 2008-05-06 7 7  
## 2008-05-14 7 7  
## 2008-05-19 10 10  
## 2008-05-20 10 10  
## 2008-05-29 10 10  
## 2008-06-10 20 20  
## 2008-06-13 20 20  
## 2008-06-16 20 20  
## 2008-06-20 20 20  
## 2008-06-23 20 20  
## 2008-06-25 20 20  
## 2008-06-27 20 20  
## 2008-07-08 0 0  
## 2008-07-09 6 6  
## 2008-07-10 6 6  
## 2008-07-11 6 6  
## 2008-07-29 0 0  
## 2008-08-04 0 0  
## 2008-08-05 0 0  
## 2008-08-06 0 0  
## 2008-08-08 0 0  
## 2008-08-14 0 0  
## 2008-08-18 7 7  
## 2008-09-02 0 0  
## 2008-09-03 1 1  
## 2008-09-05 0 0  
## 2008-09-08 4 4  
## 2008-09-09 4 4  
## 2008-09-10 4 4  
## 2008-09-11 4 4  
## 2008-09-12 4 4  
## 2008-09-16 0 0  
## 2008-09-18 0 0  
## 2008-09-22 7 7  
## 2008-09-25 7 7  
## 2008-10-06 8 8  
## 2008-10-13 8 8  
## 2008-10-14 8 8  
## 2008-10-17 0 0  
## 2008-10-21 0 0  
## 2008-10-24 0 0  
## 2008-10-28 0 0  
## 2008-10-30 0 0  
## 2008-11-07 13 13  
## 2008-11-18 13 13  
## 2008-11-20 13 13  
## 2008-11-21 13 13  
## 2008-11-25 2 2  
## 2008-12-10 0 0  
## 2008-12-15 3 3  
## 2008-12-23 0 0  
## 2008-12-24 0 0  
## 2008-12-30 0 0  
## 2008-12-31 0 0  
## 2009-01-02 0 0  
## 2009-01-06 0 0  
## 2009-01-13 8 8  
## 2009-01-15 8 8  
## 2009-01-21 8 8  
## 2009-01-22 8 8  
## 2009-02-02 30 30  
## 2009-02-03 30 30  
## 2009-02-11 30 30  
## 2009-02-17 30 30  
## 2009-02-19 30 30  
## 2009-02-20 30 30  
## 2009-02-25 30 30  
## 2009-02-26 30 30  
## 2009-03-04 30 30  
## 2009-03-09 30 30  
## 2009-03-12 0 0  
## 2009-03-18 0 0  
## 2009-03-20 7 7  
## 2009-03-24 7 7  
## 2009-03-26 7 7  
## 2009-03-31 1 1  
## 2009-04-01 1 1  
## 2009-04-07 0 0  
## 2009-04-08 0 0  
## 2009-04-13 0 0  
## 2009-04-14 0 0  
## 2009-04-15 0 0  
## 2009-04-16 0 0  
## 2009-04-17 0 0  
## 2009-04-24 0 0  
## 2009-04-28 1 1  
## 2009-05-01 3 3  
## 2009-05-06 0 0  
## 2009-05-07 16 16  
## 2009-05-08 16 16  
## 2009-05-11 16 16  
## 2009-05-14 16 16  
## 2009-05-26 16 16  
## 2009-05-28 16 16  
## 2009-06-03 1 1  
## 2009-06-05 0 0  
## 2009-06-16 16 16  
## 2009-06-19 16 16  
## 2009-06-23 16 16  
## 2009-06-30 16 16  
## 2009-07-09 10 10  
## 2009-07-10 10 10  
## 2009-08-06 0 0  
## 2009-08-12 0 0  
## 2009-08-18 4 4  
## 2009-08-24 0 0  
## 2009-08-28 0 0  
## 2009-09-02 5 5  
## 2009-09-30 10 10  
## 2009-10-01 10 10  
## 2009-10-07 10 10  
## 2009-10-14 0 0  
## 2009-10-15 0 0  
## 2009-10-26 14 14  
## 2009-11-02 14 14  
## 2009-11-03 14 14  
## 2009-11-04 14 14  
## 2009-11-05 14 14  
## 2009-11-10 0 0  
## 2009-11-11 0 0  
## 2009-11-16 0 0  
## 2009-11-25 0 0  
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## 2020-02-19 14 14  
## 2020-02-20 14 14  
## 2020-02-21 14 14  
## 2020-02-28 14 14  
## 2020-03-06 14 14

sum <- sum(predRF\_round==testingSet$incrDaysThisCycle)   
length <- length(testingSet$incrDaysThisCycle)  
accuracy\_rfMod\_round <- (sum/length)   
accuracy\_rfMod\_round

## [1] 0.9989919

results\_round <- c(round(accuracy\_rfMod\_round,2), round(100,2))  
results\_round <- as.factor(results\_round)  
results\_round <- t(data.frame(results\_round))  
  
colnames(results\_round) <- colnames(predDF\_round)  
Results\_round <- rbind(predDF\_round, results\_round)   
Results\_round

## predRF\_round IncreasingDaysThisCycle  
## 2007-01-16 0 0  
## 2007-01-17 1 1  
## 2007-01-22 8 8  
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## 2007-02-08 0 0  
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## 2007-02-16 25 25  
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## results\_round 1 100

knnMod\_round <- train(incrDaysThisCycle ~ .,  
 method='knn', preProcess=c('center','scale'),  
 tuneLength=10, trControl=trainControl(method='cv'), data=trainingSet)

rpartMod\_round <- train(incrDaysThisCycle ~ ., method='rpart', tuneLength=9, data=trainingSet)

glmMod\_round <- train(incrDaysThisCycle ~ .,   
 method='glm', data=trainingSet)

predKNN <- predict(knnMod\_round, testingSet)  
predKNN\_round <- ifelse(predKNN<0,0,round(predKNN,0))  
  
predRPART <- predict(rpartMod\_round, testingSet)  
predRPART\_round <- ifelse(predRPART<0,0,round(predRPART,0))

predGLM <- predict(glmMod\_round, testingSet)  
predGLM\_round <- ifelse(predGLM<0,0,round(predGLM,0))

length=length(testingSet$incrDaysThisCycle)

sumKNN\_round <- sum(predKNN\_round==testingSet$incrDaysThisCycle)  
sumRPart\_round <- sum(predRPART\_round==testingSet$incrDaysThisCycle)

sumGLM\_round <- sum(predGLM\_round==testingSet$incrDaysThisCycle)

accuracy\_KNN\_round <- sumKNN\_round/length   
accuracy\_RPART\_round <- sumRPart\_round/length

accuracy\_GLM\_round <- sumGLM\_round/length

predDF2\_round <- data.frame(predRF\_round,predKNN\_round,predRPART\_round,predGLM\_round,   
 IncreasingDaysThisCycle=testingSet$incrDaysThisCycle)  
colnames(predDF2\_round) <- c('RandomForest\_round','KNN\_round','Rpart\_round','GLM\_round','IncreasingDaysThisCycle')  
  
results\_round <- c(round(accuracy\_rfMod\_round,2),   
 round(accuracy\_KNN\_round,2),   
 round(accuracy\_RPART\_round,2),  
 round(accuracy\_GLM\_round,2),   
 round(100,2))  
  
results\_round <- as.factor(results\_round)  
results\_round <- t(data.frame(results\_round))  
colnames(results\_round) <- c('RandomForest\_round','KNN\_round','Rpart\_round','GLM\_round','IncreasingDaysThisCycle')  
Results\_round <- rbind(predDF2\_round, results\_round)   
Results\_round

## RandomForest\_round KNN\_round Rpart\_round GLM\_round  
## 2007-01-16 0 0 0 0  
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## 2017-04-04 5  
## 2017-04-05 5  
## 2017-04-10 5  
## 2017-04-12 0  
## 2017-04-25 0  
## 2017-05-02 6  
## 2017-05-08 0  
## 2017-05-19 4  
## 2017-05-23 0  
## 2017-05-24 0  
## 2017-05-31 0  
## 2017-06-01 0  
## 2017-06-02 0  
## 2017-06-06 0  
## 2017-06-09 0  
## 2017-06-19 12  
## 2017-06-23 12  
## 2017-06-27 12  
## 2017-06-30 0  
## 2017-07-06 0  
## 2017-07-11 0  
## 2017-07-18 1  
## 2017-07-21 11  
## 2017-08-07 18  
## 2017-08-08 18  
## 2017-08-10 18  
## 2017-08-23 18  
## 2017-08-28 18  
## 2017-09-08 3  
## 2017-09-26 0  
## 2017-09-27 0  
## 2017-10-02 0  
## 2017-10-04 0  
## 2017-10-11 0  
## 2017-10-12 0  
## 2017-10-17 0  
## 2017-10-19 20  
## 2017-10-20 20  
## 2017-10-24 20  
## 2017-11-03 20  
## 2017-11-07 20  
## 2017-11-15 20  
## 2017-11-27 0  
## 2017-12-07 0  
## 2017-12-08 0  
## 2017-12-15 0  
## 2017-12-19 0  
## 2017-12-21 0  
## 2018-01-02 1  
## 2018-01-16 0  
## 2018-01-18 0  
## 2018-01-25 15  
## 2018-01-26 15  
## 2018-01-29 15  
## 2018-01-30 15  
## 2018-01-31 15  
## 2018-02-05 15  
## 2018-02-12 15  
## 2018-02-16 0  
## 2018-02-23 0  
## 2018-03-02 0  
## 2018-03-07 1  
## 2018-03-08 0  
## 2018-03-09 0  
## 2018-03-12 0  
## 2018-03-13 0  
## 2018-03-16 11  
## 2018-03-27 11  
## 2018-04-04 0  
## 2018-04-09 10  
## 2018-04-10 10  
## 2018-05-08 3  
## 2018-05-10 3  
## 2018-05-11 0  
## 2018-05-14 0  
## 2018-05-16 0  
## 2018-05-17 0  
## 2018-05-23 0  
## 2018-06-06 1  
## 2018-06-07 1  
## 2018-06-08 1  
## 2018-06-11 18  
## 2018-06-12 18  
## 2018-06-15 18  
## 2018-06-18 18  
## 2018-06-19 18  
## 2018-06-22 18  
## 2018-06-25 18  
## 2018-06-26 18  
## 2018-07-03 18  
## 2018-07-06 18  
## 2018-07-10 7  
## 2018-07-12 7  
## 2018-07-13 7  
## 2018-07-16 7  
## 2018-07-24 0  
## 2018-07-27 0  
## 2018-07-30 0  
## 2018-08-07 10  
## 2018-08-16 10  
## 2018-08-21 0  
## 2018-08-24 0  
## 2018-08-30 0  
## 2018-09-06 6  
## 2018-09-12 6  
## 2018-09-14 0  
## 2018-09-20 0  
## 2018-09-21 0  
## 2018-10-02 15  
## 2018-10-04 15  
## 2018-10-08 15  
## 2018-10-18 15  
## 2018-10-19 0  
## 2018-10-23 3  
## 2018-10-24 3  
## 2018-10-26 3  
## 2018-10-31 0  
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## 2018-11-07 0  
## 2018-11-12 0  
## 2018-11-14 0  
## 2018-11-26 1  
## 2018-12-07 15  
## 2018-12-12 15  
## 2018-12-14 15  
## 2018-12-18 15  
## 2018-12-24 15  
## 2019-01-03 1  
## 2019-01-10 2  
## 2019-01-14 0  
## 2019-01-15 1  
## 2019-01-23 1  
## 2019-01-28 0  
## 2019-01-29 0  
## 2019-01-30 0  
## 2019-02-01 0  
## 2019-02-05 0  
## 2019-02-15 9  
## 2019-02-27 0  
## 2019-03-01 14  
## 2019-03-08 14  
## 2019-03-19 14  
## 2019-03-21 5  
## 2019-03-22 5  
## 2019-03-29 0  
## 2019-04-02 0  
## 2019-04-18 7  
## 2019-04-23 7  
## 2019-04-26 7  
## 2019-04-29 7  
## 2019-04-30 7  
## 2019-05-03 0  
## 2019-05-07 2  
## 2019-05-09 2  
## 2019-05-16 16  
## 2019-05-20 16  
## 2019-05-29 16  
## 2019-05-31 16  
## 2019-06-03 16  
## 2019-06-07 0  
## 2019-06-28 5  
## 2019-07-01 0  
## 2019-07-10 0  
## 2019-07-12 0  
## 2019-07-16 0  
## 2019-07-19 2  
## 2019-07-30 25  
## 2019-07-31 25  
## 2019-08-01 25  
## 2019-08-05 25  
## 2019-08-07 25  
## 2019-08-09 25  
## 2019-08-14 25  
## 2019-08-16 25  
## 2019-08-19 25  
## 2019-08-20 25  
## 2019-08-22 25  
## 2019-08-27 25  
## 2019-08-30 2  
## 2019-09-04 0  
## 2019-09-09 0  
## 2019-09-10 0  
## 2019-09-13 0  
## 2019-09-16 0  
## 2019-09-17 0  
## 2019-09-18 14  
## 2019-09-23 14  
## 2019-09-24 14  
## 2019-09-25 14  
## 2019-10-02 14  
## 2019-10-08 14  
## 2019-10-15 0  
## 2019-10-18 0  
## 2019-10-22 0  
## 2019-10-24 0  
## 2019-10-29 0  
## 2019-11-01 0  
## 2019-11-14 8  
## 2019-11-19 8  
## 2019-11-22 0  
## 2019-11-26 0  
## 2019-11-29 9  
## 2019-12-02 9  
## 2019-12-06 9  
## 2019-12-11 9  
## 2019-12-13 0  
## 2019-12-16 0  
## 2019-12-18 0  
## 2019-12-20 0  
## 2019-12-27 0  
## 2020-01-02 8  
## 2020-01-03 8  
## 2020-01-06 8  
## 2020-01-09 8  
## 2020-01-14 8  
## 2020-01-17 2  
## 2020-01-31 2  
## 2020-02-03 2  
## 2020-02-11 0  
## 2020-02-12 0  
## 2020-02-19 14  
## 2020-02-20 14  
## 2020-02-21 14  
## 2020-02-28 14  
## 2020-03-06 14  
## results\_round 100

Lets compare this to the table we just saw earlier when the values weren’t rounded or zero if less than zero.

Results

## RandomForest KNN Rpart  
## 2007-01-16 0.265999999999992 0 0.0725581395348837  
## 2007-01-17 1.188 4.4 0.0725581395348837  
## 2007-01-22 8.008 7.4 7.30805687203791  
## 2007-01-23 8.024 7.4 7.30805687203791  
## 2007-01-24 8.04 7.4 7.30805687203791  
## 2007-01-26 8.04 7.4 7.30805687203791  
## 2007-01-29 8.04 7.4 7.30805687203791  
## 2007-01-31 8.008 8.2 7.30805687203791  
## 2007-02-08 -1.55662149836644e-14 0 0.0725581395348837  
## 2007-02-09 -2.04600780762121e-14 0 0.0725581395348837  
## 2007-02-16 25 25 25  
## 2007-02-27 25 25 25  
## 2007-03-02 25 25 25  
## 2007-03-07 25 25 25  
## 2007-03-12 25 25 25  
## 2007-03-14 25 25 25  
## 2007-03-19 25 25 25  
## 2007-03-21 24.804 23.5 25  
## 2007-03-22 0.0299999999999766 0 0.0725581395348837  
## 2007-03-29 3.994 5.8 5.08849557522124  
## 2007-04-02 4 4.2 5.08849557522124  
## 2007-04-04 1.034 3.4 0.0725581395348837  
## 2007-04-05 0.0299999999999765 0 0.0725581395348837  
## 2007-04-09 0.0299999999999767 0 0.0725581395348837  
## 2007-04-13 7 6.4 7.30805687203791  
## 2007-04-16 7 6.4 7.30805687203791  
## 2007-04-26 21 21 19.9025974025974  
## 2007-04-27 21 21 19.9025974025974  
## 2007-05-03 21 21 19.9025974025974  
## 2007-05-11 21 21 19.9025974025974  
## 2007-05-18 21 21 19.9025974025974  
## 2007-05-29 -2.66382471636462e-14 0 0.0725581395348837  
## 2007-06-04 12 12 9.98606271777003  
## 2007-06-05 12 12 9.98606271777003  
## 2007-06-12 12 12 9.98606271777003  
## 2007-06-13 12 12 9.98606271777003  
## 2007-06-15 12 12 9.98606271777003  
## 2007-06-18 12 11.6 9.98606271777003  
## 2007-06-20 0.0319999999999721 0 0.0725581395348837  
## 2007-06-26 -2.88942203496845e-14 0 0.0725581395348837  
## 2007-06-29 -2.98978619639456e-14 0 0.0725581395348837  
## 2007-07-03 -2.93489677005709e-14 0 0.0725581395348837  
## 2007-07-11 -2.90203416852819e-14 0 0.0725581395348837  
## 2007-07-13 -2.95106161729564e-14 0 0.0725581395348837  
## 2007-07-17 1 0.2 0.0725581395348837  
## 2007-07-18 1.038 4.6 0.0725581395348837  
## 2007-07-20 2.008 4.2 2.4468085106383  
## 2007-07-23 2.012 4.6 2.4468085106383  
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## 2007-08-08 20 20 19.9025974025974  
## 2007-08-14 20 20 19.9025974025974  
## 2007-08-16 20 20 19.9025974025974  
## 2007-08-17 20 20 19.9025974025974  
## 2007-08-20 20 20 19.9025974025974  
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## 2007-09-13 5 5.8 5.08849557522124  
## 2007-09-20 9 8.6 9.98606271777003  
## 2007-09-21 9 9.2 9.98606271777003  
## 2007-09-24 9 9.2 9.98606271777003  
## 2007-10-01 9 9.2 9.98606271777003  
## 2007-10-02 8.96 9 9.98606271777003  
## 2007-10-04 -3.16902060149005e-14 0 0.0725581395348837  
## 2007-10-10 -3.17221804380097e-14 0 0.0725581395348837  
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## 2007-10-24 3 7 2.4468085106383  
## 2007-10-30 -2.93045587795859e-14 0 0.0725581395348837  
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## 2007-11-06 10 10 9.98606271777003  
## 2007-11-13 10 10 9.98606271777003  
## 2007-11-19 9 9.2 9.98606271777003  
## 2007-11-21 9 9.2 9.98606271777003  
## 2007-11-26 9 9.2 9.98606271777003  
## 2007-11-28 9 9.2 9.98606271777003  
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## 2007-12-03 14 14 14.6610878661088  
## 2007-12-04 14 14 14.6610878661088  
## 2007-12-06 14 14 14.6610878661088  
## 2007-12-10 14 14 14.6610878661088  
## 2007-12-14 14 14 14.6610878661088  
## 2007-12-17 14 14 14.6610878661088  
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## 2008-01-07 11 11 9.98606271777003  
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## 2008-01-23 -2.90381052536759e-14 0 0.0725581395348837  
## 2008-01-24 1 1.4 0.0725581395348837  
## 2008-01-28 -3.17861292842281e-14 0 0.0725581395348837  
## 2008-01-31 -3.18571835578041e-14 0 0.0725581395348837  
## 2008-02-07 -3.19619886113287e-14 0 0.0725581395348837  
## 2008-02-11 1 1.6 0.0725581395348837  
## 2008-02-15 25 25 25  
## 2008-02-28 25 25 25  
## 2008-03-17 25.008 25 25  
## 2008-03-19 25.008 25 25  
## 2008-03-20 24.402 20 25  
## 2008-03-31 -3.04236635884081e-14 0 0.0725581395348837  
## 2008-04-03 -3.05728775629177e-14 0 0.0725581395348837  
## 2008-04-07 -3.06759062596029e-14 0 0.0725581395348837  
## 2008-04-08 12.968 10 14.6610878661088  
## 2008-04-10 13 13 14.6610878661088  
## 2008-04-22 13 13 14.6610878661088  
## 2008-04-24 13 13 14.6610878661088  
## 2008-04-28 -3.06616954048877e-14 0 0.0725581395348837  
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## 2008-05-14 7 7 7.30805687203791  
## 2008-05-19 9.996 9.2 9.98606271777003  
## 2008-05-20 10 10 9.98606271777003  
## 2008-05-29 10 10 9.98606271777003  
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## 2008-06-13 20 20 19.9025974025974  
## 2008-06-16 20 20 19.9025974025974  
## 2008-06-20 20 20 19.9025974025974  
## 2008-06-23 20 20 19.9025974025974  
## 2008-06-25 20 20 19.9025974025974  
## 2008-06-27 20 20 19.9025974025974  
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## 2008-07-10 6 6.4 5.08849557522124  
## 2008-07-11 6 6.4 5.08849557522124  
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## 2008-12-30 -3.06492609070119e-14 0 0.0725581395348837  
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## 2009-01-15 8 7.8 7.30805687203791  
## 2009-01-21 8 7.8 7.30805687203791  
## 2009-01-22 8 7.8 7.30805687203791  
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## 2009-03-24 7 7.4 7.30805687203791  
## 2009-03-26 7 7.4 7.30805687203791  
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## 2016-12-16 0.999999999999805 1  
## 2016-12-22 -2.01187200792801e-13 0  
## 2016-12-27 -2.00299022373101e-13 0  
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## 2017-01-24 2.99999999999981 3  
## 2017-01-26 7.99999999999981 8  
## 2017-01-27 7.99999999999983 8  
## 2017-01-31 7.99999999999983 8  
## 2017-02-03 7.99999999999983 8  
## 2017-02-06 7.99999999999983 8  
## 2017-02-09 -1.9097314896625e-13 0  
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## 2017-02-27 4.99999999999983 5  
## 2017-03-03 12.9999999999998 13  
## 2017-03-08 12.9999999999998 13  
## 2017-03-09 12.9999999999998 13  
## 2017-03-10 12.9999999999998 13  
## 2017-03-14 12.9999999999998 13  
## 2017-03-17 12.9999999999998 13  
## 2017-03-21 12.9999999999998 13  
## 2017-03-22 12.9999999999998 13  
## 2017-03-29 -1.92083371990875e-13 0  
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## 2017-04-10 4.99999999999983 5  
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## 2017-07-11 -1.92083371990875e-13 0  
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## 2017-08-08 17.9999999999998 18  
## 2017-08-10 17.9999999999998 18  
## 2017-08-23 17.9999999999998 18  
## 2017-08-28 17.9999999999998 18  
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## 2017-09-26 -1.77206383460898e-13 0  
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## 2017-10-17 -1.80537052534773e-13 0  
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## 2017-10-20 19.9999999999998 20  
## 2017-10-24 19.9999999999998 20  
## 2017-11-03 19.9999999999998 20  
## 2017-11-07 19.9999999999998 20  
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## 2018-01-29 14.9999999999998 15  
## 2018-01-30 14.9999999999998 15  
## 2018-01-31 14.9999999999998 15  
## 2018-02-05 14.9999999999998 15  
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## 2018-03-09 -2.04961959076527e-13 0  
## 2018-03-12 -2.05628092891302e-13 0  
## 2018-03-13 -2.04517869866677e-13 0  
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## 2018-03-27 10.9999999999998 11  
## 2018-04-04 -2.06738315915927e-13 0  
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## 2018-04-10 9.99999999999984 10  
## 2018-05-08 2.99999999999983 3  
## 2018-05-10 2.99999999999984 3  
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## 2018-05-14 -1.76318205041198e-13 0  
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## 2018-05-17 -1.77650472670748e-13 0  
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## 2018-06-07 0.999999999999822 1  
## 2018-06-08 0.999999999999821 1  
## 2018-06-11 17.9999999999998 18  
## 2018-06-12 17.9999999999999 18  
## 2018-06-15 17.9999999999999 18  
## 2018-06-18 17.9999999999999 18  
## 2018-06-19 17.9999999999999 18  
## 2018-06-22 17.9999999999999 18  
## 2018-06-25 17.9999999999999 18  
## 2018-06-26 17.9999999999999 18  
## 2018-07-03 17.9999999999999 18  
## 2018-07-06 17.9999999999998 18  
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## 2018-07-13 6.99999999999985 7  
## 2018-07-16 6.99999999999985 7  
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## 2018-07-27 -1.73653669782097e-13 0  
## 2018-07-30 -1.71655268337772e-13 0  
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## 2018-08-16 9.99999999999985 10  
## 2018-08-21 -1.75207982016573e-13 0  
## 2018-08-24 -1.70323000708222e-13 0  
## 2018-08-30 -1.72099357547622e-13 0  
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## 2018-09-12 5.99999999999984 6  
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## 2018-09-20 -1.78094561880598e-13 0  
## 2018-09-21 -1.81425230954473e-13 0  
## 2018-10-02 14.9999999999999 15  
## 2018-10-04 14.9999999999999 15  
## 2018-10-08 14.9999999999999 15  
## 2018-10-18 14.9999999999999 15  
## 2018-10-19 -1.72099357547622e-13 0  
## 2018-10-23 2.99999999999985 3  
## 2018-10-24 2.99999999999986 3  
## 2018-10-26 2.99999999999986 3  
## 2018-10-31 -1.5877668125212e-13 0  
## 2018-11-02 -1.60553038091521e-13 0  
## 2018-11-07 -1.60553038091521e-13 0  
## 2018-11-12 -1.58998725857045e-13 0  
## 2018-11-14 -1.60997127301371e-13 0  
## 2018-11-26 0.999999999999833 1  
## 2018-12-07 14.9999999999999 15  
## 2018-12-12 14.9999999999999 15  
## 2018-12-14 14.9999999999999 15  
## 2018-12-18 14.9999999999999 15  
## 2018-12-24 14.9999999999999 15  
## 2019-01-03 0.999999999999845 1  
## 2019-01-10 1.99999999999985 2  
## 2019-01-14 -1.72543446757472e-13 0  
## 2019-01-15 0.999999999999842 1  
## 2019-01-23 0.999999999999854 1  
## 2019-01-28 -1.67436420844196e-13 0  
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## 2019-02-27 -1.78316606485523e-13 0  
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## 2019-03-08 13.9999999999999 14  
## 2019-03-19 13.9999999999999 14  
## 2019-03-21 4.99999999999984 5  
## 2019-03-22 4.99999999999986 5  
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## 2019-04-23 6.99999999999985 7  
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## 2019-04-29 6.99999999999985 7  
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## 2019-05-07 1.99999999999984 2  
## 2019-05-09 1.99999999999983 2  
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## 2019-05-20 15.9999999999999 16  
## 2019-05-29 15.9999999999999 16  
## 2019-05-31 15.9999999999999 16  
## 2019-06-03 15.9999999999999 16  
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## 2019-07-01 -1.60553038091521e-13 0  
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## 2019-07-19 1.99999999999986 2  
## 2019-07-30 24.9999999999999 25  
## 2019-07-31 24.9999999999999 25  
## 2019-08-01 24.9999999999999 25  
## 2019-08-05 24.9999999999999 25  
## 2019-08-07 24.9999999999999 25  
## 2019-08-09 24.9999999999999 25  
## 2019-08-14 24.9999999999999 25  
## 2019-08-16 24.9999999999999 25  
## 2019-08-19 24.9999999999999 25  
## 2019-08-20 24.9999999999999 25  
## 2019-08-22 24.9999999999999 25  
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## 2019-09-23 13.9999999999999 14  
## 2019-09-24 13.9999999999999 14  
## 2019-09-25 13.9999999999999 14  
## 2019-10-02 13.9999999999999 14  
## 2019-10-08 13.9999999999999 14  
## 2019-10-15 -1.45009915746768e-13 0  
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## 2019-10-24 -1.44343781931993e-13 0  
## 2019-10-29 -1.46564227981244e-13 0  
## 2019-11-01 -1.44343781931993e-13 0  
## 2019-11-14 7.99999999999986 8  
## 2019-11-19 7.99999999999986 8  
## 2019-11-22 -1.70767089918072e-13 0  
## 2019-11-26 -1.70767089918072e-13 0  
## 2019-11-29 8.99999999999986 9  
## 2019-12-02 8.99999999999986 9  
## 2019-12-06 8.99999999999986 9  
## 2019-12-11 8.99999999999987 9  
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## 2019-12-27 -1.51893298499444e-13 0  
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## 2020-01-03 7.99999999999986 8  
## 2020-01-06 7.99999999999986 8  
## 2020-01-09 7.99999999999986 8  
## 2020-01-14 7.99999999999985 8  
## 2020-01-17 1.99999999999984 2  
## 2020-01-31 1.99999999999986 2  
## 2020-02-03 1.99999999999986 2  
## 2020-02-11 -1.60553038091521e-13 0  
## 2020-02-12 -1.61441216511221e-13 0  
## 2020-02-19 13.9999999999999 14  
## 2020-02-20 13.9999999999999 14  
## 2020-02-21 13.9999999999999 14  
## 2020-02-28 13.9999999999999 14  
## 2020-03-06 13.9999999999999 14  
## results 0 100

This certainly confirms that these algorithms are great for predicting the number of days that will continue to decrease with the features we selected and the models used in R, random forest, recursive partitioned trees, generalized linear models, and K-nearest neighbors for numeric data.

We can align the rounded table by indices with our sAAL testing set table to see what dates we can look at for clarity.

sAAL$row <- row.names(sAAL)  
testingSet$row <- row.names(testingSet)  
Results\_round$row <- row.names(Results\_round)  
  
AAL <- merge(testingSet,Results\_round, by.x='row', by.y='row')  
AAL

## row stockDayValue todayGrtrThanLag7 cumulativeSumTodayGrtrThanLag7  
## 1 2007-01-16 61.96 0 0  
## 2 2007-01-17 58.65 0 0  
## 3 2007-01-22 57.03 1 2  
## 4 2007-01-23 53.27 1 3  
## 5 2007-01-24 53.35 1 4  
## 6 2007-01-26 52.13 1 6  
## 7 2007-01-29 54.43 1 7  
## 8 2007-01-31 55.98 1 9  
## 9 2007-02-08 59.31 0 9  
## 10 2007-02-09 58.14 0 9  
## 11 2007-02-16 56.70 1 12  
## 12 2007-02-27 51.79 1 18  
## 13 2007-03-02 50.65 1 21  
## 14 2007-03-07 49.35 1 24  
## 15 2007-03-12 49.45 1 27  
## 16 2007-03-14 45.78 1 29  
## 17 2007-03-19 47.86 1 32  
## 18 2007-03-21 49.41 1 34  
## 19 2007-03-22 47.90 0 34  
## 20 2007-03-29 45.53 1 36  
## 21 2007-04-02 45.05 1 38  
## 22 2007-04-04 46.49 1 39  
## 23 2007-04-05 47.05 0 39  
## 24 2007-04-09 47.81 0 39  
## 25 2007-04-13 45.23 1 42  
## 26 2007-04-16 45.34 1 43  
## 27 2007-04-26 39.33 1 50  
## 28 2007-04-27 37.18 1 51  
## 29 2007-05-03 35.55 1 55  
## 30 2007-05-11 33.36 1 61  
## 31 2007-05-18 33.48 1 66  
## 32 2007-05-29 35.60 0 67  
## 33 2007-06-04 33.95 1 68  
## 34 2007-06-05 33.53 1 69  
## 35 2007-06-12 29.19 1 74  
## 36 2007-06-13 28.72 1 75  
## 37 2007-06-15 27.61 1 77  
## 38 2007-06-18 27.29 1 78  
## 39 2007-06-20 29.71 0 79  
## 40 2007-06-26 28.26 0 79  
## 41 2007-06-29 30.27 0 79  
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## 43 2007-07-11 34.73 0 79  
## 44 2007-07-13 34.10 0 79  
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## 50 2007-08-08 31.39 1 93  
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## 53 2007-08-17 26.31 1 100  
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## 66 2007-10-24 28.74 0 124  
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## 83 2008-01-07 12.23 1 166  
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## 94 2008-03-19 8.43 1 198  
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## 98 2008-04-07 9.62 0 199  
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## 115 2008-06-27 2.45 1 245  
## 116 2008-07-08 2.70 0 250  
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## 122 2008-08-05 6.70 0 256  
## 123 2008-08-06 6.66 0 256  
## 124 2008-08-08 7.96 0 256  
## 125 2008-08-14 8.86 0 256  
## 126 2008-08-18 8.99 0 256  
## 127 2008-09-02 8.82 0 263  
## 128 2008-09-03 8.54 0 263  
## 129 2008-09-05 7.91 0 264  
## 130 2008-09-08 7.68 0 264  
## 131 2008-09-09 7.13 1 265  
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## 133 2008-09-11 7.52 1 267  
## 134 2008-09-12 7.88 1 268  
## 135 2008-09-16 9.10 0 268  
## 136 2008-09-18 7.95 0 268  
## 137 2008-09-22 6.86 1 269  
## 138 2008-09-25 6.22 1 272  
## 139 2008-10-06 6.18 1 277  
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## 143 2008-10-21 7.83 0 284  
## 144 2008-10-24 7.97 0 284  
## 145 2008-10-28 8.56 0 284  
## 146 2008-10-30 9.33 0 284  
## 147 2008-11-07 7.87 1 286  
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## 150 2008-11-21 4.48 1 296  
## 151 2008-11-25 5.86 0 297  
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## 157 2008-12-31 7.73 0 302  
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## 178 2009-03-26 2.80 1 345  
## 179 2009-03-31 2.53 0 347  
## 180 2009-04-01 2.60 1 348  
## 181 2009-04-07 3.04 0 348  
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## 204 2009-07-09 2.16 1 388  
## 205 2009-07-10 2.06 1 389  
## 206 2009-08-06 3.06 0 396  
## 207 2009-08-12 3.04 0 397  
## 208 2009-08-18 2.93 1 400  
## 209 2009-08-24 3.19 0 401  
## 210 2009-08-28 3.57 0 401  
## 211 2009-09-02 3.13 1 403  
## 212 2009-09-30 4.70 1 409  
## 213 2009-10-01 4.26 1 410  
## 214 2009-10-07 4.25 1 414  
## 215 2009-10-14 4.48 0 416  
## 216 2009-10-15 4.52 0 416  
## 217 2009-10-26 3.37 1 422  
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## 219 2009-11-03 2.93 1 428  
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## 223 2009-11-11 3.23 0 431  
## 224 2009-11-16 3.38 0 431  
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