

Stock Counts 52 Machine Learning

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3/17/2020

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.

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

library(dplyr)
library(tidyr)
library(lubridate)
```

These are the lag1 entries to compare to the next day or today stock values where today is the instance date.

```
stocks_65 <- read.csv('ALL_65_stocks_countGroups_1999-01-01_2020-03-15_lag1.csv', sep=',', header=TRUE,
                      na.strings=c('', ' ', 'NA'))

head(stocks_65)

##      stockName
## 1          AAL
## 2          AAL
## 3          AAL
## 4          AAL
## 5          AAL
## 6          AAL
##
stockInfo
## 1 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price.
Currency in USD
## 2 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price.
Currency in USD
## 3 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price.
Currency in USD
## 4 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price.
Currency in USD
## 5 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price.
Currency in USD
```

6 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price.
Currency in USD

##	stockExchange	Date	DayOfWeek	Month	Year	MonthYear	stockDayValue
## 1	Nasdaq	2005-09-28	Wednesday	Sep	2005	Sep-2005	20.50
## 2	Nasdaq	2005-09-29	Thursday	Sep	2005	Sep-2005	20.21
## 3	Nasdaq	2005-09-30	Friday	Sep	2005	Sep-2005	21.01
## 4	Nasdaq	2005-10-03	Monday	Oct	2005	Oct-2005	21.50
## 5	Nasdaq	2005-10-04	Tuesday	Oct	2005	Oct-2005	22.16
## 6	Nasdaq	2005-10-05	Wednesday	Oct	2005	Oct-2005	22.20

##	startDayValue	startDayDate	finalDayValue	finalDayDate	lag1	today2lag1
## 1	19.3	2005-09-27	14.31	2020-03-13	19.30	1.0621762
## 2	19.3	2005-09-27	14.31	2020-03-13	20.50	0.9858536
## 3	19.3	2005-09-27	14.31	2020-03-13	20.21	1.0395844
## 4	19.3	2005-09-27	14.31	2020-03-13	21.01	1.0233222
## 5	19.3	2005-09-27	14.31	2020-03-13	21.50	1.0306977
## 6	19.3	2005-09-27	14.31	2020-03-13	22.16	1.0018051

##	todayGrtrThanlag1	cumulativeSumTodayGrtrThanlag1
## 1	1	1
## 2	0	1
## 3	1	2
## 4	1	3
## 5	1	4
## 6	1	5

##	decrDaysThisCycle	nTimesDecrDayCountsOccurs	todayLessThanlag1
## 1	1	411	0
## 2	1	411	1
## 3	0	943	0
## 4	0	943	0
## 5	0	943	0
## 6	0	943	0

##	cumulativeSumTodayLessThanlag1	nRepeatsTodayLessThanlag1	incrDaysThisCycle
## 1	0	1	0
## 2	1	6	5
## 3	1	6	5
## 4	1	6	5
## 5	1	6	5
## 6	1	6	5

```

5
##   nTimesIncrDayCountsOccurs
## 1                        955
## 2                         30
## 3                         30
## 4                         30
## 5                         30
## 6                         30

colnames(stocks_65)

##  [1] "stockName"           "stockInfo"
##  [3] "stockExchange"       "Date"
##  [5] "DayOfWeek"           "Month"
##  [7] "Year"                "MonthYear"
##  [9] "stockDayValue"        "startDayValue"
## [11] "startDayDate"         "finalDayValue"
## [13] "finalDayDate"         "lag1"
## [15] "today2lag1"           "todayGrtrThanlag1"
## [17] "cumulativeSumTodayGrtrThanlag1" "nRepeatsTodayGrtrThanlag1"
## [19] "decrDaysThisCycle"    "nTimesDecrDayCountsOccurs"
## [21] "todayLessThanlag1"    "cumulativeSumTodayLessThanlag1"
## [23] "nRepeatsTodayLessThanlag1" "incrDaysThisCycle"
## [25] "nTimesIncrDayCountsOccurs"

```

Create a subset of the 65 stocks data of the AAL stock.

```

sAAL <- subset(stocks_65, stocks_65$stockName == 'AAL')
row.names(sAAL) <- sAAL$Date
sAAL <- sAAL[,c(5,9,14:25)]
head(sAAL)

##           DayOfWeek stockDayValue lag1 today2lag1 todayGrtrThanlag1
## 2005-09-28 Wednesday          20.50 19.30  1.0621762              1
## 2005-09-29 Thursday           20.21 20.50  0.9858536              0
## 2005-09-30 Friday            21.01 20.21  1.0395844              1
## 2005-10-03 Monday            21.50 21.01  1.0233222              1
## 2005-10-04 Tuesday           22.16 21.50  1.0306977              1
## 2005-10-05 Wednesday         22.20 22.16  1.0018051              1
##           cumulativeSumTodayGrtrThanlag1 nRepeatsTodayGrtrThanlag1
## 2005-09-28                             1                          2
## 2005-09-29                             1                          2
## 2005-09-30                             2                          1
## 2005-10-03                             3                          1
## 2005-10-04                             4                          1
## 2005-10-05                             5                          1
##           decrDaysThisCycle nTimesDecrDayCountsOccurs todayLessThanlag1
## 2005-09-28                  1                          411              0
## 2005-09-29                  1                          411              1
## 2005-09-30                  0                          943              0
## 2005-10-03                  0                          943              0

```

```

## 2005-10-04      0      943      0
## 2005-10-05      0      943      0
##      cumulativeSumTodayLessThanlag1 nRepeatsTodayLessThanlag1
## 2005-09-28      0      1
## 2005-09-29      1      6
## 2005-09-30      1      6
## 2005-10-03      1      6
## 2005-10-04      1      6
## 2005-10-05      1      6
##      incrDaysThisCycle nTimesIncrDayCountsOccurs
## 2005-09-28      0      955
## 2005-09-29      5      30
## 2005-09-30      5      30
## 2005-10-03      5      30
## 2005-10-04      5      30
## 2005-10-05      5      30

str(sAAL)

## 'data.frame': 3639 obs. of 14 variables:
## $ DayOfWeek      : Factor w/ 5 levels
"Friday","Monday",...: 5 3 1 2 4 5 3 1 2 4 ...
## $ stockDayValue   : num 20.5 20.2 21 21.5 22.2 ...
## $ lag1            : num 19.3 20.5 20.2 21 21.5 ...
## $ today2lag1      : num 1.062 0.986 1.04 1.023 1.031 ...
## $ todayGrtrThanlag1 : int 1 0 1 1 1 1 1 0 1 0 ...
## $ cumulativeSumTodayGrtrThanlag1: int 1 1 2 3 4 5 6 6 7 7 ...
## $ nRepeatsTodayGrtrThanlag1 : int 2 2 1 1 1 1 2 2 4 4 ...
## $ decrDaysThisCycle : int 1 1 0 0 0 0 1 1 3 3 ...
## $ nTimesDecrDayCountsOccurs : int 411 411 943 943 943 943 411 411
107 107 ...
## $ todayLessThanlag1 : int 0 1 0 0 0 0 0 1 0 1 ...
## $ cumulativeSumTodayLessThanlag1: int 0 1 1 1 1 1 1 2 2 3 ...
## $ nRepeatsTodayLessThanlag1 : int 1 6 6 6 6 6 6 2 2 1 ...
## $ incrDaysThisCycle : int 0 5 5 5 5 5 5 1 1 0 ...
## $ nTimesIncrDayCountsOccurs : int 955 30 30 30 30 30 30 408 408 955
...

```

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

```

set.seed(12356789)

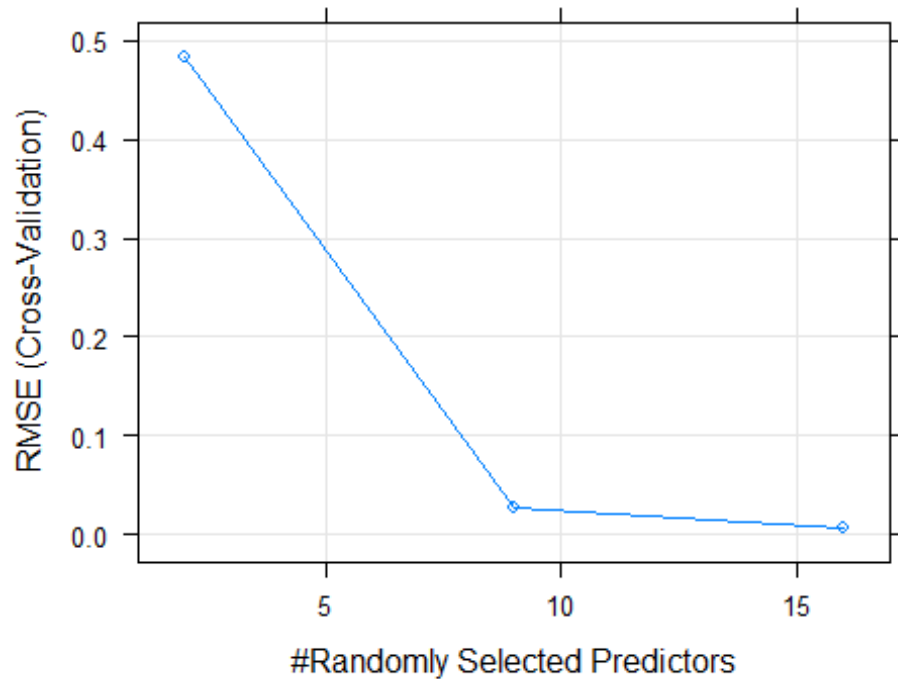
inTrain <- createDataPartition(y=sAAL$incrDaysThisCycle, p=0.7, list=FALSE)

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, type=testingSet$incrDaysThisCycle)
predDF
```

```
##          predRF type
## 2005-09-28 8.540000e-01 0
## 2005-10-07 1.046000e+00 1
## 2005-10-10 1.050000e+00 1
## 2005-10-14 1.052000e+00 1
## 2005-10-19 3.600000e-02 0
## 2005-10-21 1.988000e+00 2
## 2005-10-24 1.996000e+00 2
## 2005-10-28 1.500000e+01 15
## 2005-11-14 1.499000e+01 15
## 2005-11-16 1.038000e+00 1
## 2005-11-22 1.998000e+00 2
## 2005-11-23 2.012000e+00 2
## 2005-12-06 1.998000e+00 2
## 2005-12-12 3.000000e-02 0
## 2005-12-13 7.972000e+00 8
## 2005-12-14 7.970000e+00 8
## 2005-12-16 7.984000e+00 8
## 2005-12-23 7.992000e+00 8
## 2005-12-27 1.200000e-02 0
## 2005-12-29 4.200000e-02 0
## 2006-01-05 2.976000e+00 3
```

##	2006-01-06	-7.818635e-15	0
##	2006-01-09	8.000000e-03	0
##	2006-01-19	2.600000e-02	0
##	2006-01-23	1.996000e+00	2
##	2006-01-24	2.000000e+00	2
##	2006-01-26	2.600000e-02	0
##	2006-01-27	3.992000e+00	4
##	2006-02-01	3.978000e+00	4
##	2006-02-03	1.000000e-02	0
##	2006-02-07	2.000000e+00	2
##	2006-02-10	2.986000e+00	3
##	2006-02-15	2.996000e+00	3
##	2006-03-03	6.000000e-03	0
##	2006-03-09	1.000000e+00	1
##	2006-03-20	7.000000e+00	7
##	2006-03-24	9.980000e-01	1
##	2006-03-28	1.004000e+00	1
##	2006-03-29	1.004000e+00	1
##	2006-03-30	1.000000e+00	1
##	2006-04-10	-6.958878e-15	0
##	2006-04-11	-6.949108e-15	0
##	2006-04-12	1.000000e+00	1
##	2006-04-17	2.000000e+00	2
##	2006-04-18	2.000000e+00	2
##	2006-04-20	-6.990852e-15	0
##	2006-04-27	4.000000e+00	4
##	2006-05-02	5.000000e+00	5
##	2006-05-05	5.000000e+00	5
##	2006-05-12	1.000000e+00	1
##	2006-05-25	2.000000e+00	2
##	2006-05-31	1.000000e+00	1
##	2006-06-02	-7.975842e-15	0
##	2006-06-05	3.986000e+00	4
##	2006-06-06	3.992000e+00	4
##	2006-06-08	4.000000e+00	4
##	2006-06-12	-6.977530e-15	0
##	2006-06-19	5.000000e+00	5
##	2006-06-28	5.000000e+00	5
##	2006-06-30	5.000000e+00	5
##	2006-07-12	-6.908252e-15	0
##	2006-07-13	-7.007728e-15	0
##	2006-07-21	3.000000e+00	3
##	2006-07-24	3.000000e+00	3
##	2006-07-26	2.994000e+00	3
##	2006-07-27	1.000000e+00	1
##	2006-07-28	1.006000e+00	1
##	2006-08-01	2.000000e+00	2
##	2006-08-04	-7.895906e-15	0
##	2006-08-09	-6.918022e-15	0
##	2006-08-10	-7.053025e-15	0

##	2006-08-21	9.960000e-01	1
##	2006-08-22	1.000000e+00	1
##	2006-08-25	3.000000e+00	3
##	2006-08-31	-7.043255e-15	0
##	2006-09-08	2.000000e+00	2
##	2006-09-15	-7.920775e-15	0
##	2006-09-18	2.000000e+00	2
##	2006-09-20	2.000000e+00	2
##	2006-09-22	3.000000e+00	3
##	2006-09-25	3.000000e+00	3
##	2006-09-26	3.000000e+00	3
##	2006-10-02	3.000000e+00	3
##	2006-10-12	1.006000e+00	1
##	2006-10-16	-6.991741e-15	0
##	2006-10-17	5.000000e+00	5
##	2006-10-18	5.000000e+00	5
##	2006-10-27	1.000000e+00	1
##	2006-10-30	1.000000e+00	1
##	2006-11-06	2.000000e+00	2
##	2006-11-13	2.000000e+00	2
##	2006-11-17	3.000000e+00	3
##	2006-11-20	3.000000e+00	3
##	2006-11-27	-6.838974e-15	0
##	2006-12-08	2.000000e+00	2
##	2006-12-14	-6.973977e-15	0
##	2006-12-15	-7.928769e-15	0
##	2006-12-27	2.000000e+00	2
##	2007-01-04	2.004000e+00	2
##	2007-01-08	-6.899370e-15	0
##	2007-01-12	1.000000e+00	1
##	2007-01-16	1.000000e+00	1
##	2007-01-17	-6.751044e-15	0
##	2007-01-22	-6.923351e-15	0
##	2007-01-24	2.000000e+00	2
##	2007-01-31	2.000000e+00	2
##	2007-02-01	2.000000e+00	2
##	2007-02-05	1.000000e+00	1
##	2007-02-06	-6.759038e-15	0
##	2007-02-08	1.000000e+00	1
##	2007-02-13	2.008000e+00	2
##	2007-02-20	-6.516565e-15	0
##	2007-02-23	2.000000e-03	0
##	2007-03-01	-7.113421e-15	0
##	2007-03-14	1.000000e+00	1
##	2007-03-20	3.000000e+00	3
##	2007-03-22	-6.941114e-15	0
##	2007-03-23	-7.820411e-15	0
##	2007-03-27	-6.745715e-15	0
##	2007-03-28	-6.807888e-15	0
##	2007-04-10	-6.949108e-15	0

##	2007-04-18	3.976000e+00	4
##	2007-04-19	-6.961542e-15	0
##	2007-04-24	-6.784795e-15	0
##	2007-04-26	-6.934897e-15	0
##	2007-04-27	-7.815082e-15	0
##	2007-04-30	1.012000e+00	1
##	2007-05-03	1.000000e+00	1
##	2007-05-07	-6.985523e-15	0
##	2007-05-08	-6.966872e-15	0
##	2007-05-09	-6.995293e-15	0
##	2007-05-22	3.000000e+00	3
##	2007-05-23	3.000000e+00	3
##	2007-05-30	1.998000e+00	2
##	2007-06-05	-6.904699e-15	0
##	2007-06-07	1.014000e+00	1
##	2007-06-12	-6.964207e-15	0
##	2007-06-14	1.000000e+00	1
##	2007-06-15	-7.940315e-15	0
##	2007-06-29	5.000000e+00	5
##	2007-07-02	5.000000e+00	5
##	2007-07-06	5.000000e+00	5
##	2007-07-11	2.000000e+00	2
##	2007-07-13	2.000000e+00	2
##	2007-07-31	-6.894929e-15	0
##	2007-08-06	2.000000e+00	2
##	2007-08-09	2.000000e-03	0
##	2007-08-13	1.000000e+00	1
##	2007-08-14	-6.878942e-15	0
##	2007-08-20	3.000000e+00	3
##	2007-08-22	3.000000e+00	3
##	2007-08-23	1.000000e+00	1
##	2007-08-29	4.000000e+00	4
##	2007-09-04	3.994000e+00	4
##	2007-09-06	-7.170264e-15	0
##	2007-09-11	1.002000e+00	1
##	2007-09-13	1.996000e+00	2
##	2007-09-17	2.000000e+00	2
##	2007-09-20	-7.174705e-15	0
##	2007-09-27	-7.088552e-15	0
##	2007-10-03	7.000000e+00	7
##	2007-10-09	7.000000e+00	7
##	2007-10-12	1.000000e+00	1
##	2007-10-15	2.000000e+00	2
##	2007-10-23	3.000000e+00	3
##	2007-10-24	3.000000e+00	3
##	2007-10-26	-8.014034e-15	0
##	2007-10-29	1.008000e+00	1
##	2007-11-07	-6.819434e-15	0
##	2007-11-12	3.000000e+00	3
##	2007-11-15	-7.191581e-15	0

##	2007-11-16	-7.988277e-15	0
##	2007-11-19	-6.977530e-15	0
##	2007-11-21	2.000000e+00	2
##	2007-11-23	2.000000e+00	2
##	2007-11-28	1.000000e+00	1
##	2007-11-30	1.004000e+00	1
##	2007-12-06	2.000000e+00	2
##	2007-12-14	-7.911893e-15	0
##	2007-12-20	3.000000e+00	3
##	2007-12-21	1.000000e+00	1
##	2007-12-26	-6.155076e-15	0
##	2007-12-28	-7.025491e-15	0
##	2007-12-31	-6.227019e-15	0
##	2008-01-09	1.024000e+00	1
##	2008-01-14	3.000000e+00	3
##	2008-01-18	1.000000e+00	1
##	2008-01-23	1.000000e+00	1
##	2008-01-24	-7.035261e-15	0
##	2008-02-05	3.000000e+00	3
##	2008-02-11	-6.960654e-15	0
##	2008-02-20	1.000000e+00	1
##	2008-03-10	-6.866507e-15	0
##	2008-03-12	-6.738610e-15	0
##	2008-03-17	4.978000e+00	5
##	2008-03-24	5.000000e+00	5
##	2008-04-03	4.000000e+00	4
##	2008-04-07	4.000000e+00	4
##	2008-04-09	1.000000e+00	1
##	2008-04-10	1.000000e+00	1
##	2008-04-14	-6.954437e-15	0
##	2008-04-30	9.980000e-01	1
##	2008-05-01	1.000000e+00	1
##	2008-05-06	-6.946443e-15	0
##	2008-05-07	-6.926903e-15	0
##	2008-05-12	-6.950884e-15	0
##	2008-05-13	3.000000e+00	3
##	2008-05-14	3.000000e+00	3
##	2008-05-15	3.000000e+00	3
##	2008-05-16	2.998000e+00	3
##	2008-05-22	-7.081447e-15	0
##	2008-05-28	9.960000e-01	1
##	2008-06-02	3.002000e+00	3
##	2008-06-05	3.008000e+00	3
##	2008-06-12	2.988000e+00	3
##	2008-06-13	3.000000e+00	3
##	2008-06-17	3.000000e+00	3
##	2008-06-18	9.980000e-01	1
##	2008-06-23	-6.427747e-15	0
##	2008-06-24	1.000000e+00	1
##	2008-07-01	-6.603607e-15	0

##	2008-07-03	2.998000e+00	3
##	2008-07-16	3.000000e+00	3
##	2008-07-21	2.000000e+00	2
##	2008-07-31	5.992000e+00	6
##	2008-08-07	4.000000e+00	4
##	2008-08-08	4.000000e+00	4
##	2008-08-11	4.000000e+00	4
##	2008-08-12	3.998000e+00	4
##	2008-08-13	-6.909140e-15	0
##	2008-08-19	-6.858514e-15	0
##	2008-08-21	1.000000e+00	1
##	2008-08-25	-6.957102e-15	0
##	2008-08-29	3.000000e+00	3
##	2008-09-04	1.000000e+00	1
##	2008-09-08	-6.960654e-15	0
##	2008-09-12	2.000000e+00	2
##	2008-09-15	1.000000e+00	1
##	2008-10-02	-7.044143e-15	0
##	2008-10-10	2.000000e+00	2
##	2008-10-16	5.000000e+00	5
##	2008-10-17	4.994000e+00	5
##	2008-10-20	4.994000e+00	5
##	2008-10-22	5.000000e+00	5
##	2008-10-23	1.000000e+00	1
##	2008-10-30	3.000000e+00	3
##	2008-11-03	2.988000e+00	3
##	2008-11-05	-6.912693e-15	0
##	2008-11-10	1.016000e+00	1
##	2008-11-11	9.980000e-01	1
##	2008-11-18	-6.935785e-15	0
##	2008-11-21	5.000000e+00	5
##	2008-11-24	5.000000e+00	5
##	2008-11-25	5.000000e+00	5
##	2008-12-09	1.000000e+00	1
##	2008-12-15	2.000000e+00	2
##	2008-12-22	-6.952661e-15	0
##	2008-12-24	1.000000e+00	1
##	2008-12-26	-7.898571e-15	0
##	2008-12-29	3.000000e+00	3
##	2009-01-07	3.000000e+00	3
##	2009-01-08	3.000000e+00	3
##	2009-01-21	2.000000e+00	2
##	2009-01-22	2.004000e+00	2
##	2009-01-23	2.000000e+00	2
##	2009-01-30	2.000000e+00	2
##	2009-02-04	-6.825651e-15	0
##	2009-02-05	1.000000e+00	1
##	2009-02-11	2.000000e+00	2
##	2009-02-18	-6.832757e-15	0
##	2009-02-20	1.998000e+00	2

##	2009-02-24	2.006000e+00	2
##	2009-02-26	-7.016610e-15	0
##	2009-03-02	-6.780354e-15	0
##	2009-03-04	1.000000e+00	1
##	2009-03-10	4.000000e+00	4
##	2009-03-12	3.998000e+00	4
##	2009-03-17	2.000000e+00	2
##	2009-03-19	-6.774137e-15	0
##	2009-03-31	4.998000e+00	5
##	2009-04-07	2.996000e+00	3
##	2009-04-09	2.998000e+00	3
##	2009-04-20	3.986000e+00	4
##	2009-04-21	4.000000e+00	4
##	2009-04-23	4.000000e+00	4
##	2009-04-30	3.994000e+00	4
##	2009-05-12	-6.761702e-15	0
##	2009-05-20	-6.513901e-15	0
##	2009-05-28	2.946000e+00	3
##	2009-05-29	2.996000e+00	3
##	2009-06-01	3.000000e+00	3
##	2009-06-02	3.000000e+00	3
##	2009-06-08	1.016000e+00	1
##	2009-06-11	1.996000e+00	2
##	2009-06-12	1.996000e+00	2
##	2009-06-16	1.998000e+00	2
##	2009-06-19	-7.753798e-15	0
##	2009-06-22	-6.778578e-15	0
##	2009-06-26	-7.474021e-15	0
##	2009-06-29	1.008000e+00	1
##	2009-07-01	1.026000e+00	1
##	2009-07-02	1.000000e+00	1
##	2009-07-08	1.010000e+00	1
##	2009-07-09	1.000000e+00	1
##	2009-07-10	1.016000e+00	1
##	2009-07-17	1.004000e+00	1
##	2009-07-20	1.000000e+00	1
##	2009-07-24	5.982000e+00	6
##	2009-08-05	2.000000e+00	2
##	2009-08-07	1.002000e+00	1
##	2009-08-11	2.006000e+00	2
##	2009-08-19	4.972000e+00	5
##	2009-08-26	4.990000e+00	5
##	2009-09-01	9.014000e+00	9
##	2009-09-08	9.014000e+00	9
##	2009-09-10	9.008000e+00	9
##	2009-09-11	9.014000e+00	9
##	2009-09-14	9.008000e+00	9
##	2009-09-21	1.004000e+00	1
##	2009-09-25	1.998000e+00	2
##	2009-09-28	-6.909140e-15	0

##	2009-10-02	3.000000e+00	3
##	2009-10-05	3.000000e+00	3
##	2009-10-08	3.000000e+00	3
##	2009-10-12	3.000000e+00	3
##	2009-10-15	2.004000e+00	2
##	2009-10-21	-6.790124e-15	0
##	2009-10-28	1.004000e+00	1
##	2009-11-05	2.994000e+00	3
##	2009-11-06	3.000000e+00	3
##	2009-11-09	3.002000e+00	3
##	2009-11-11	1.002000e+00	1
##	2009-12-08	-6.918910e-15	0
##	2009-12-17	4.000000e-03	0
##	2009-12-30	1.000000e+00	1
##	2010-01-04	9.980000e-01	1
##	2010-01-05	1.000000e+00	1
##	2010-01-14	3.000000e+00	3
##	2010-01-28	4.000000e+00	4
##	2010-02-02	3.998000e+00	4
##	2010-02-08	3.000000e+00	3
##	2010-02-09	3.000000e+00	3
##	2010-02-12	3.000000e+00	3
##	2010-02-16	3.024000e+00	3
##	2010-02-24	4.000000e+00	4
##	2010-02-25	2.000000e+00	2
##	2010-03-05	1.000000e+00	1
##	2010-03-10	2.000000e+00	2
##	2010-03-15	-6.956213e-15	0
##	2010-03-16	-6.965095e-15	0
##	2010-03-19	3.000000e+00	3
##	2010-03-22	3.000000e+00	3
##	2010-03-25	-7.025491e-15	0
##	2010-03-30	2.000000e+00	2
##	2010-04-06	-6.981082e-15	0
##	2010-04-08	1.000000e+00	1
##	2010-04-12	1.004000e+00	1
##	2010-04-15	-7.092993e-15	0
##	2010-04-28	2.000000e+00	2
##	2010-04-29	2.004000e+00	2
##	2010-04-30	1.000000e+00	1
##	2010-05-05	1.000000e+00	1
##	2010-05-07	1.000000e+00	1
##	2010-05-14	1.000000e+00	1
##	2010-05-18	1.000000e+00	1
##	2010-05-19	1.000000e+00	1
##	2010-05-20	1.002000e+00	1
##	2010-05-21	1.000000e+00	1
##	2010-05-26	4.000000e+00	4
##	2010-05-27	3.996000e+00	4
##	2010-06-03	-7.141843e-15	0

##	2010-06-04	6.000000e-03	0
##	2010-06-07	1.000000e+00	1
##	2010-06-08	1.000000e+00	1
##	2010-06-16	3.000000e+00	3
##	2010-06-18	6.000000e-03	0
##	2010-06-21	-6.959766e-15	0
##	2010-06-23	1.000000e+00	1
##	2010-06-24	-7.129408e-15	0
##	2010-06-28	-6.957990e-15	0
##	2010-06-30	2.000000e+00	2
##	2010-07-06	2.000000e+00	2
##	2010-07-07	2.000000e+00	2
##	2010-07-08	2.000000e+00	2
##	2010-07-12	1.000000e+00	1
##	2010-07-16	6.000000e-03	0
##	2010-07-19	5.000000e+00	5
##	2010-07-21	5.000000e+00	5
##	2010-08-20	-7.957190e-15	0
##	2010-08-25	1.002000e+00	1
##	2010-08-31	4.000000e+00	4
##	2010-09-01	4.000000e+00	4
##	2010-09-03	4.014000e+00	4
##	2010-09-08	-6.949996e-15	0
##	2010-09-17	2.000000e+00	2
##	2010-09-21	2.000000e+00	2
##	2010-09-22	-6.878054e-15	0
##	2010-09-23	2.000000e+00	2
##	2010-10-01	2.000000e+00	2
##	2010-10-05	1.000000e+00	1
##	2010-10-07	1.000000e+00	1
##	2010-10-12	2.000000e+00	2
##	2010-10-13	2.000000e+00	2
##	2010-10-15	1.000000e+00	1
##	2010-10-19	1.000000e+00	1
##	2010-10-26	4.000000e+00	4
##	2010-10-29	-7.979395e-15	0
##	2010-11-08	-6.968648e-15	0
##	2010-11-12	1.000000e+00	1
##	2010-11-15	1.000000e+00	1
##	2010-11-16	4.000000e+00	4
##	2010-11-22	4.000000e+00	4
##	2010-11-24	1.000000e+00	1
##	2010-11-29	-6.968648e-15	0
##	2010-12-06	1.000000e+00	1
##	2010-12-10	1.000000e+00	1
##	2010-12-17	2.000000e+00	2
##	2010-12-21	2.000000e+00	2
##	2010-12-28	2.000000e+00	2
##	2011-01-04	4.000000e+00	4
##	2011-01-10	4.000000e+00	4

##	2011-01-24	4.000000e+00	4
##	2011-01-31	-6.961542e-15	0
##	2011-02-22	-6.961542e-15	0
##	2011-02-23	-6.942891e-15	0
##	2011-02-28	2.000000e+00	2
##	2011-03-02	2.000000e+00	2
##	2011-03-11	2.000000e+00	2
##	2011-03-29	1.000000e+00	1
##	2011-03-30	1.002000e+00	1
##	2011-04-04	-6.961542e-15	0
##	2011-04-06	-6.951772e-15	0
##	2011-04-18	2.000000e+00	2
##	2011-04-21	2.000000e+00	2
##	2011-04-29	2.000000e+00	2
##	2011-05-05	3.000000e+00	3
##	2011-05-13	1.000000e+00	1
##	2011-05-17	-6.877166e-15	0
##	2011-05-19	1.028000e+00	1
##	2011-05-25	-6.769696e-15	0
##	2011-05-27	-7.811529e-15	0
##	2011-06-01	1.006000e+00	1
##	2011-06-02	1.000000e+00	1
##	2011-06-03	-7.901235e-15	0
##	2011-06-09	2.000000e+00	2
##	2011-06-14	1.000000e+00	1
##	2011-06-15	9.980000e-01	1
##	2011-06-17	3.000000e+00	3
##	2011-06-20	3.000000e+00	3
##	2011-06-23	1.000000e+00	1
##	2011-07-01	2.000000e+00	2
##	2011-07-07	1.084000e+00	1
##	2011-07-12	-6.091128e-15	0
##	2011-07-13	2.000000e-03	0
##	2011-07-18	-6.189715e-15	0
##	2011-07-19	-6.079581e-15	0
##	2011-07-20	2.000000e-03	0
##	2011-07-28	1.094000e+00	1
##	2011-08-02	1.000000e+00	1
##	2011-08-05	-7.910117e-15	0
##	2011-08-18	-7.077894e-15	0
##	2011-08-22	1.000000e+00	1
##	2011-08-23	1.000000e+00	1
##	2011-08-25	2.000000e+00	2
##	2011-08-26	1.998000e+00	2
##	2011-08-30	1.000000e+00	1
##	2011-09-08	-7.129408e-15	0
##	2011-09-13	4.000000e+00	4
##	2011-10-06	3.000000e+00	3
##	2011-10-07	4.000000e+00	4
##	2011-10-13	4.000000e+00	4

##	2011-10-17	1.000000e+00	1
##	2011-10-19	1.000000e+00	1
##	2011-10-28	3.024000e+00	3
##	2011-11-01	-6.931344e-15	0
##	2011-11-10	1.000000e+00	1
##	2011-11-14	-6.902923e-15	0
##	2011-11-16	-6.863843e-15	0
##	2011-11-29	5.000000e+00	5
##	2011-12-09	2.000000e+00	2
##	2011-12-13	3.000000e+00	3
##	2011-12-15	3.000000e+00	3
##	2011-12-23	-7.898571e-15	0
##	2011-12-28	1.008000e+00	1
##	2011-12-29	1.000000e+00	1
##	2012-01-17	3.000000e+00	3
##	2012-01-18	3.000000e+00	3
##	2012-01-19	3.000000e+00	3
##	2012-01-24	5.000000e+00	5
##	2012-01-31	3.000000e+00	3
##	2012-02-01	3.000000e+00	3
##	2012-02-08	-6.981971e-15	0
##	2012-02-09	-7.144507e-15	0
##	2012-02-10	1.000000e+00	1
##	2012-02-16	1.000000e+00	1
##	2012-03-01	1.000000e+00	1
##	2012-03-02	1.000000e+00	1
##	2012-03-12	3.000000e+00	3
##	2012-03-13	3.000000e+00	3
##	2012-03-16	2.000000e+00	2
##	2012-03-19	2.000000e+00	2
##	2012-03-23	2.000000e+00	2
##	2012-03-30	-7.866596e-15	0
##	2012-04-05	-7.142731e-15	0
##	2012-04-09	-6.950884e-15	0
##	2012-04-10	2.000000e+00	2
##	2012-04-13	4.000000e+00	4
##	2012-04-17	4.000000e+00	4
##	2012-04-20	-7.879031e-15	0
##	2012-04-23	4.000000e+00	4
##	2012-04-25	4.000000e+00	4
##	2012-04-27	4.000000e+00	4
##	2012-04-30	-6.933121e-15	0
##	2012-05-04	1.000000e+00	1
##	2012-05-25	6.000000e+00	6
##	2012-06-05	2.000000e+00	2
##	2012-06-26	3.000000e+00	3
##	2012-06-27	3.000000e+00	3
##	2012-06-28	3.000000e+00	3
##	2012-07-19	-7.086776e-15	0
##	2012-07-25	2.000000e+00	2

##	2012-07-27	2.000000e+00	2
##	2012-07-30	1.000000e+00	1
##	2012-07-31	1.000000e+00	1
##	2012-08-06	-6.933121e-15	0
##	2012-08-07	1.000000e+00	1
##	2012-08-14	1.000000e+00	1
##	2012-08-17	4.000000e+00	4
##	2012-08-20	4.000000e+00	4
##	2012-08-23	1.000000e+00	1
##	2012-08-28	-6.980194e-15	0
##	2012-08-29	-6.981971e-15	0
##	2012-08-30	1.000000e+00	1
##	2012-09-10	-6.936673e-15	0
##	2012-09-13	-7.028156e-15	0
##	2012-09-27	4.000000e+00	4
##	2012-10-09	1.000000e+00	1
##	2012-10-12	5.000000e+00	5
##	2012-10-16	5.000000e+00	5
##	2012-10-31	2.000000e+00	2
##	2012-11-14	1.000000e+00	1
##	2012-11-16	1.998000e+00	2
##	2012-11-26	2.000000e+00	2
##	2012-11-30	-7.948309e-15	0
##	2012-12-03	-6.947332e-15	0
##	2012-12-05	4.000000e+00	4
##	2012-12-12	1.000000e+00	1
##	2012-12-17	3.000000e+00	3
##	2012-12-18	3.000000e+00	3
##	2012-12-21	-7.942980e-15	0
##	2012-12-26	-6.969536e-15	0
##	2012-12-31	2.000000e+00	2
##	2013-01-03	3.000000e+00	3
##	2013-01-04	3.000000e+00	3
##	2013-01-10	1.000000e+00	1
##	2013-01-11	-7.966960e-15	0
##	2013-01-14	-6.956213e-15	0
##	2013-01-22	2.000000e+00	2
##	2013-01-29	-6.958878e-15	0
##	2013-02-05	3.000000e+00	3
##	2013-02-06	3.000000e+00	3
##	2013-02-21	2.000000e+00	2
##	2013-02-25	1.298800e+01	13
##	2013-02-26	1.299400e+01	13
##	2013-02-27	1.298800e+01	13
##	2013-03-04	1.299400e+01	13
##	2013-03-07	1.299400e+01	13
##	2013-03-08	1.298800e+01	13
##	2013-03-11	1.299400e+01	13
##	2013-03-12	1.299400e+01	13
##	2013-03-18	3.000000e+00	3

##	2013-04-09	2.000000e+00	2
##	2013-04-10	2.000000e+00	2
##	2013-04-16	2.000000e+00	2
##	2013-04-17	2.000000e+00	2
##	2013-04-19	-7.974066e-15	0
##	2013-04-23	2.000000e+00	2
##	2013-04-24	2.000000e+00	2
##	2013-04-30	3.000000e+00	3
##	2013-05-09	3.000000e+00	3
##	2013-05-15	3.000000e+00	3
##	2013-05-20	-6.983747e-15	0
##	2013-05-24	2.000000e+00	2
##	2013-05-30	-7.188916e-15	0
##	2013-06-04	-6.992629e-15	0
##	2013-06-10	2.000000e+00	2
##	2013-06-12	1.000000e+00	1
##	2013-06-14	2.000000e+00	2
##	2013-06-18	2.000000e+00	2
##	2013-06-20	-7.155165e-15	0
##	2013-06-21	-7.946532e-15	0
##	2013-06-25	1.000000e+00	1
##	2013-07-02	4.000000e+00	4
##	2013-07-10	5.000000e+00	5
##	2013-07-12	5.000000e+00	5
##	2013-07-16	5.000000e+00	5
##	2013-07-19	-7.980283e-15	0
##	2013-07-23	4.000000e+00	4
##	2013-07-30	2.000000e+00	2
##	2013-08-07	1.000000e+00	1
##	2013-08-08	1.000000e+00	1
##	2013-08-21	3.000000e+00	3
##	2013-08-26	1.000000e+00	1
##	2013-08-29	5.000000e+00	5
##	2013-09-10	2.000000e+00	2
##	2013-09-12	3.000000e+00	3
##	2013-09-17	3.000000e+00	3
##	2013-09-23	3.000000e+00	3
##	2013-10-03	4.000000e+00	4
##	2013-10-15	5.000000e+00	5
##	2013-10-22	5.000000e+00	5
##	2013-10-23	1.000000e+00	1
##	2013-10-25	-7.939427e-15	0
##	2013-10-30	2.000000e+00	2
##	2013-10-31	2.000000e+00	2
##	2013-11-08	3.000000e+00	3
##	2013-11-14	3.000000e+00	3
##	2013-11-20	-7.036149e-15	0
##	2013-11-22	9.980000e-01	1
##	2013-11-26	1.000000e+00	1
##	2013-11-29	-7.993606e-15	0

##	2013-12-10	5.000000e+00	5
##	2013-12-19	1.000000e+00	1
##	2013-12-23	1.000000e+00	1
##	2014-01-06	4.000000e+00	4
##	2014-01-17	5.000000e+00	5
##	2014-01-21	5.000000e+00	5
##	2014-01-22	5.000000e+00	5
##	2014-01-23	5.000000e+00	5
##	2014-01-27	3.000000e+00	3
##	2014-01-30	3.000000e+00	3
##	2014-02-03	2.000000e+00	2
##	2014-02-11	-7.021939e-15	0
##	2014-02-21	5.000000e+00	5
##	2014-02-25	5.000000e+00	5
##	2014-02-26	-6.986411e-15	0
##	2014-03-03	4.000000e+00	4
##	2014-03-06	4.000000e+00	4
##	2014-03-07	3.958000e+00	4
##	2014-03-12	-7.043255e-15	0
##	2014-03-18	-7.030820e-15	0
##	2014-03-19	-7.051248e-15	0
##	2014-03-24	2.000000e+00	2
##	2014-03-25	1.998000e+00	2
##	2014-03-28	2.000000e+00	2
##	2014-03-31	2.000000e+00	2
##	2014-04-01	1.998000e+00	2
##	2014-04-04	-8.022916e-15	0
##	2014-04-07	2.000000e+00	2
##	2014-04-16	2.000000e+00	2
##	2014-04-22	4.000000e+00	4
##	2014-04-28	1.000000e+00	1
##	2014-05-01	8.000000e+00	8
##	2014-05-02	8.000000e+00	8
##	2014-05-06	8.000000e+00	8
##	2014-05-15	2.000000e+00	2
##	2014-05-16	2.000000e+00	2
##	2014-05-19	2.000000e+00	2
##	2014-05-20	1.000000e+01	10
##	2014-05-22	1.000000e+01	10
##	2014-06-02	1.000000e+01	10
##	2014-06-03	1.000000e+01	10
##	2014-06-09	1.000000e+00	1
##	2014-06-12	6.000000e+00	6
##	2014-06-13	5.988000e+00	6
##	2014-06-17	6.000000e+00	6
##	2014-06-26	2.000000e+00	2
##	2014-06-27	-7.971401e-15	0
##	2014-06-30	1.000000e+00	1
##	2014-07-16	-6.981971e-15	0
##	2014-07-17	1.000000e+00	1

##	2014-07-21	-6.987300e-15	0
##	2014-07-22	1.010000e+00	1
##	2014-08-04	-6.983747e-15	0
##	2014-08-08	2.000000e+00	2
##	2014-08-11	2.000000e+00	2
##	2014-08-21	1.000000e+00	1
##	2014-08-22	1.000000e+00	1
##	2014-08-27	1.000000e+00	1
##	2014-08-29	1.000000e+00	1
##	2014-09-18	1.006000e+00	1
##	2014-09-24	1.000000e+00	1
##	2014-09-25	1.000000e+00	1
##	2014-09-26	1.000000e+00	1
##	2014-09-29	1.000000e+00	1
##	2014-10-01	-6.980194e-15	0
##	2014-10-02	1.000000e+00	1
##	2014-10-07	-6.962431e-15	0
##	2014-10-10	-7.944756e-15	0
##	2014-10-13	5.970000e+00	6
##	2014-10-30	4.000000e+00	4
##	2014-11-03	4.000000e+00	4
##	2014-11-13	1.000000e+00	1
##	2014-11-17	1.000000e+00	1
##	2014-11-19	1.000000e+00	1
##	2014-11-28	3.000000e+00	3
##	2014-12-02	3.000000e+00	3
##	2014-12-09	2.000000e+00	2
##	2014-12-11	2.000000e+00	2
##	2014-12-15	1.000000e+00	1
##	2014-12-17	4.000000e+00	4
##	2014-12-18	4.000000e+00	4
##	2015-01-02	6.000000e+00	6
##	2015-01-06	-6.980194e-15	0
##	2015-01-07	1.000000e+00	1
##	2015-01-08	1.000000e+00	1
##	2015-01-13	1.000000e+00	1
##	2015-01-15	5.000000e+00	5
##	2015-01-20	5.000000e+00	5
##	2015-01-23	5.000000e+00	5
##	2015-01-29	1.000000e+00	1
##	2015-01-30	-7.998935e-15	0
##	2015-02-02	-6.990852e-15	0
##	2015-02-03	1.000000e+00	1
##	2015-02-05	-7.195133e-15	0
##	2015-02-11	2.000000e+00	2
##	2015-02-18	5.000000e+00	5
##	2015-02-23	5.000000e+00	5
##	2015-02-27	3.000000e+00	3
##	2015-03-03	3.000000e+00	3
##	2015-03-06	-8.001599e-15	0

##	2015-03-09	-6.981971e-15	0
##	2015-03-10	8.000000e+00	8
##	2015-03-11	8.000000e+00	8
##	2015-03-12	8.000000e+00	8
##	2015-03-16	8.000000e+00	8
##	2015-03-20	8.000000e+00	8
##	2015-03-23	-6.947332e-15	0
##	2015-03-30	1.994000e+00	2
##	2015-04-06	-6.989076e-15	0
##	2015-04-20	5.000000e+00	5
##	2015-04-23	5.000000e+00	5
##	2015-04-24	5.000000e+00	5
##	2015-05-01	1.000000e+00	1
##	2015-05-11	1.000000e+00	1
##	2015-05-14	1.000000e+00	1
##	2015-05-27	1.000000e+00	1
##	2015-06-01	1.986000e+00	2
##	2015-06-02	-6.981971e-15	0
##	2015-06-10	2.000000e+00	2
##	2015-06-16	4.000000e+00	4
##	2015-06-22	3.980000e+00	4
##	2015-06-23	-6.984635e-15	0
##	2015-06-24	-7.037926e-15	0
##	2015-06-25	-7.110756e-15	0
##	2015-06-29	1.018000e+00	1
##	2015-07-02	3.000000e+00	3
##	2015-07-08	3.000000e+00	3
##	2015-07-10	3.000000e+00	3
##	2015-07-14	-7.011280e-15	0
##	2015-07-24	2.000000e+00	2
##	2015-07-28	1.998000e+00	2
##	2015-07-31	3.000000e+00	3
##	2015-08-07	2.000000e+00	2
##	2015-08-10	2.000000e+00	2
##	2015-08-17	2.980000e+00	3
##	2015-08-19	-6.981971e-15	0
##	2015-08-24	-6.954437e-15	0
##	2015-08-28	3.000000e+00	3
##	2015-09-02	3.000000e+00	3
##	2015-09-09	8.000000e+00	8
##	2015-09-15	8.000000e+00	8
##	2015-09-18	-8.033574e-15	0
##	2015-09-22	1.000000e+00	1
##	2015-09-23	1.000000e+00	1
##	2015-09-24	-7.220891e-15	0
##	2015-10-08	4.000000e+00	4
##	2015-10-12	4.000000e+00	4
##	2015-10-19	2.000000e+00	2
##	2015-10-28	-7.051248e-15	0
##	2015-10-29	3.000000e+00	3

##	2015-11-06	-7.030820e-15	0
##	2015-11-17	-6.190604e-15	0
##	2015-11-18	1.036000e+00	1
##	2015-11-20	1.000000e+00	1
##	2015-11-23	1.000000e+00	1
##	2015-11-24	2.000000e+00	2
##	2015-11-27	2.000000e+00	2
##	2015-12-07	2.000000e+00	2
##	2015-12-11	-7.941203e-15	0
##	2015-12-15	2.000000e+00	2
##	2015-12-16	2.000000e+00	2
##	2015-12-17	-7.119638e-15	0
##	2015-12-21	4.000000e+00	4
##	2015-12-24	4.000000e+00	4
##	2015-12-30	-7.051248e-15	0
##	2016-01-04	-6.994405e-15	0
##	2016-01-05	1.000000e+00	1
##	2016-01-06	1.000000e+00	1
##	2016-01-11	2.000000e+00	2
##	2016-01-12	2.000000e+00	2
##	2016-01-13	1.000000e+00	1
##	2016-01-14	1.000000e+00	1
##	2016-01-15	4.000000e+00	4
##	2016-01-25	2.000000e+00	2
##	2016-01-29	2.000000e+00	2
##	2016-02-04	2.000000e+00	2
##	2016-02-10	2.000000e+00	2
##	2016-02-12	6.000000e+00	6
##	2016-02-18	6.000000e+00	6
##	2016-02-29	2.000000e+00	2
##	2016-03-08	1.000000e+00	1
##	2016-03-16	1.000000e+00	1
##	2016-03-28	3.000000e+00	3
##	2016-04-11	5.000000e+00	5
##	2016-04-14	5.000000e+00	5
##	2016-05-04	-6.980194e-15	0
##	2016-05-19	-7.224443e-15	0
##	2016-05-24	2.000000e+00	2
##	2016-05-31	3.000000e+00	3
##	2016-06-09	4.000000e+00	4
##	2016-06-14	1.000000e+00	1
##	2016-06-16	3.000000e+00	3
##	2016-06-17	3.000000e+00	3
##	2016-06-20	3.000000e+00	3
##	2016-06-22	1.000000e+00	1
##	2016-06-29	4.000000e+00	4
##	2016-07-06	4.000000e+00	4
##	2016-07-07	4.000000e+00	4
##	2016-07-08	4.000000e+00	4
##	2016-07-11	4.000000e+00	4

##	2016-07-20	-7.046808e-15	0
##	2016-07-21	1.000000e+00	1
##	2016-07-28	1.000000e+00	1
##	2016-08-02	-6.908252e-15	0
##	2016-08-05	2.000000e+00	2
##	2016-08-09	1.000000e+00	1
##	2016-08-12	2.000000e+00	2
##	2016-08-15	2.000000e+00	2
##	2016-08-18	1.000000e+00	1
##	2016-08-24	3.000000e+00	3
##	2016-08-26	-7.965184e-15	0
##	2016-08-31	-6.983747e-15	0
##	2016-09-01	4.000000e+00	4
##	2016-09-14	1.000000e+00	1
##	2016-09-23	2.000000e+00	2
##	2016-10-06	2.000000e+00	2
##	2016-10-14	-7.963408e-15	0
##	2016-10-24	-6.973977e-15	0
##	2016-10-25	-6.983747e-15	0
##	2016-10-27	3.000000e+00	3
##	2016-11-01	-7.019274e-15	0
##	2016-11-02	-7.050360e-15	0
##	2016-11-03	4.000000e+00	4
##	2016-11-08	4.000000e+00	4
##	2016-11-11	3.000000e+00	3
##	2016-11-16	2.000000e+00	2
##	2016-11-18	2.000000e+00	2
##	2016-11-23	2.000000e+00	2
##	2016-11-25	2.000000e+00	2
##	2016-11-29	1.000000e+00	1
##	2016-12-01	1.000000e+00	1
##	2016-12-07	2.000000e+00	2
##	2016-12-09	1.000000e+00	1
##	2016-12-12	3.000000e+00	3
##	2016-12-30	-7.995382e-15	0
##	2017-01-05	4.000000e+00	4
##	2017-01-12	-7.194245e-15	0
##	2017-01-18	1.000000e+00	1
##	2017-01-19	1.000000e+00	1
##	2017-01-25	3.000000e+00	3
##	2017-01-26	2.992000e+00	3
##	2017-02-08	3.000000e+00	3
##	2017-02-14	1.000000e+00	1
##	2017-02-24	4.000000e+00	4
##	2017-02-27	4.000000e+00	4
##	2017-03-06	-6.977530e-15	0
##	2017-03-08	1.000000e+00	1
##	2017-03-13	-6.982859e-15	0
##	2017-03-15	2.000000e+00	2
##	2017-03-20	-6.973977e-15	0

##	2017-03-22	4.000000e+00	4
##	2017-03-27	4.000000e+00	4
##	2017-03-28	4.000000e+00	4
##	2017-03-30	1.000000e+00	1
##	2017-04-03	1.000000e+00	1
##	2017-04-05	6.000000e+00	6
##	2017-04-06	6.000000e+00	6
##	2017-04-10	6.000000e+00	6
##	2017-04-25	2.000000e+00	2
##	2017-04-28	-7.994494e-15	0
##	2017-05-08	4.000000e+00	4
##	2017-05-09	4.000000e+00	4
##	2017-05-11	-7.104539e-15	0
##	2017-05-19	6.000000e+00	6
##	2017-05-24	6.000000e+00	6
##	2017-05-25	6.000000e+00	6
##	2017-06-01	4.000000e+00	4
##	2017-06-09	-7.915446e-15	0
##	2017-06-12	-6.946443e-15	0
##	2017-06-13	-6.886935e-15	0
##	2017-06-14	-6.942003e-15	0
##	2017-06-16	1.002000e+00	1
##	2017-06-20	2.000000e+00	2
##	2017-06-22	2.000000e+00	2
##	2017-06-29	7.000000e+00	7
##	2017-07-05	7.000000e+00	7
##	2017-07-06	7.000000e+00	7
##	2017-07-07	7.000000e+00	7
##	2017-07-12	3.000000e+00	3
##	2017-07-17	2.000000e-03	0
##	2017-07-18	-6.716405e-15	0
##	2017-07-25	1.012000e+00	1
##	2017-08-01	1.000000e+00	1
##	2017-08-15	-6.980194e-15	0
##	2017-08-16	-7.003287e-15	0
##	2017-08-17	-7.156054e-15	0
##	2017-08-18	1.000000e+00	1
##	2017-08-24	1.000000e+00	1
##	2017-08-31	2.000000e+00	2
##	2017-09-01	2.000000e+00	2
##	2017-09-07	-7.134737e-15	0
##	2017-09-12	3.000000e+00	3
##	2017-09-27	1.000000e+00	1
##	2017-09-28	1.000000e+00	1
##	2017-10-04	3.000000e+00	3
##	2017-10-06	1.000000e+00	1
##	2017-10-11	-6.919798e-15	0
##	2017-10-13	1.000000e+00	1
##	2017-10-24	1.006000e+00	1
##	2017-10-26	-7.115197e-15	0

##	2017-11-17	3.000000e+00	3
##	2017-11-24	-7.950085e-15	0
##	2017-11-28	3.000000e+00	3
##	2017-11-30	3.000000e+00	3
##	2017-12-11	4.000000e+00	4
##	2017-12-15	3.000000e+00	3
##	2017-12-22	1.000000e+00	1
##	2017-12-27	1.000000e+00	1
##	2018-01-04	1.000000e+00	1
##	2018-01-11	3.000000e+00	3
##	2018-01-22	2.000000e+00	2
##	2018-01-23	2.000000e+00	2
##	2018-01-24	-6.870060e-15	0
##	2018-01-30	1.000000e+00	1
##	2018-02-01	-7.176482e-15	0
##	2018-02-08	-7.048584e-15	0
##	2018-02-09	4.000000e+00	4
##	2018-02-14	4.000000e+00	4
##	2018-02-15	4.000000e+00	4
##	2018-02-21	5.000000e+00	5
##	2018-02-22	5.000000e+00	5
##	2018-03-07	6.000000e+00	6
##	2018-03-12	6.000000e+00	6
##	2018-03-13	-6.924239e-15	0
##	2018-03-20	1.000000e+00	1
##	2018-03-26	1.004000e+00	1
##	2018-03-27	-6.875389e-15	0
##	2018-03-29	1.004000e+00	1
##	2018-04-05	3.000000e+00	3
##	2018-04-18	1.000000e+00	1
##	2018-04-20	-7.926104e-15	0
##	2018-04-23	-6.951772e-15	0
##	2018-04-30	1.000000e+00	1
##	2018-05-02	-6.948220e-15	0
##	2018-05-03	1.000000e+00	1
##	2018-05-07	1.000000e+00	1
##	2018-05-08	1.000000e+00	1
##	2018-05-11	2.000000e+00	2
##	2018-05-16	2.000000e+00	2
##	2018-05-17	-7.127632e-15	0
##	2018-05-23	2.000000e+00	2
##	2018-06-05	1.000000e+00	1
##	2018-06-06	1.000000e+00	1
##	2018-06-19	1.000000e+00	1
##	2018-06-21	-6.967760e-15	0
##	2018-06-29	1.008000e+00	1
##	2018-07-05	3.000000e+00	3
##	2018-07-06	3.000000e+00	3
##	2018-07-17	5.000000e+00	5
##	2018-07-26	2.000000e+00	2

##	2018-07-27	-7.968737e-15	0
##	2018-08-01	-6.940226e-15	0
##	2018-08-02	1.014000e+00	1
##	2018-08-03	1.000000e+00	1
##	2018-08-09	-7.233325e-15	0
##	2018-08-27	2.000000e+00	2
##	2018-08-30	2.000000e+00	2
##	2018-09-04	2.000000e+00	2
##	2018-09-07	2.000000e+00	2
##	2018-09-20	7.000000e+00	7
##	2018-10-01	-6.995293e-15	0
##	2018-10-02	1.000000e+00	1
##	2018-10-04	-6.939338e-15	0
##	2018-10-18	-7.085887e-15	0
##	2018-10-23	2.000000e+00	2
##	2018-11-07	1.000000e+00	1
##	2018-11-13	3.000000e+00	3
##	2018-11-14	3.000000e+00	3
##	2018-11-15	-7.196910e-15	0
##	2018-11-19	-6.986411e-15	0
##	2018-12-03	-6.968648e-15	0
##	2018-12-10	3.000000e+00	3
##	2018-12-13	-7.152501e-15	0
##	2018-12-14	-8.032686e-15	0
##	2018-12-24	1.000000e+00	1
##	2018-12-27	-7.094769e-15	0
##	2019-01-04	2.000000e+00	2
##	2019-01-10	-7.164935e-15	0
##	2019-01-25	3.000000e+00	3
##	2019-01-31	3.000000e+00	3
##	2019-02-05	3.000000e+00	3
##	2019-02-22	3.000000e+00	3
##	2019-02-25	3.000000e+00	3
##	2019-03-01	-7.825740e-15	0
##	2019-03-04	-6.890488e-15	0
##	2019-03-06	-6.786571e-15	0
##	2019-03-07	-6.993517e-15	0
##	2019-03-13	2.000000e+00	2
##	2019-03-14	2.000000e+00	2
##	2019-03-20	1.000000e+00	1
##	2019-03-21	1.000000e+00	1
##	2019-03-22	-8.011369e-15	0
##	2019-03-26	1.000000e+00	1
##	2019-03-27	1.000000e+00	1
##	2019-03-29	6.000000e+00	6
##	2019-04-10	2.000000e+00	2
##	2019-04-15	2.000000e+00	2
##	2019-04-22	2.000000e+00	2
##	2019-04-24	2.000000e+00	2
##	2019-04-29	2.000000e+00	2

##	2019-05-06	-6.975753e-15	0
##	2019-05-07	-6.975753e-15	0
##	2019-05-08	2.000000e+00	2
##	2019-05-10	2.000000e+00	2
##	2019-05-16	1.000000e+00	1
##	2019-05-22	-6.778578e-15	0
##	2019-06-10	-6.963319e-15	0
##	2019-06-14	-8.023804e-15	0
##	2019-06-19	1.000000e+00	1
##	2019-06-21	1.000000e+00	1
##	2019-06-26	4.000000e+00	4
##	2019-07-10	3.000000e+00	3
##	2019-07-11	3.000000e+00	3
##	2019-07-19	-7.936762e-15	0
##	2019-07-23	2.000000e+00	2
##	2019-08-05	-6.695977e-15	0
##	2019-08-06	2.002000e+00	2
##	2019-08-07	2.000000e+00	2
##	2019-08-14	-6.950884e-15	0
##	2019-08-16	2.000000e+00	2
##	2019-08-23	-8.010481e-15	0
##	2019-09-06	9.006000e+00	9
##	2019-09-19	-7.120526e-15	0
##	2019-09-26	-7.053913e-15	0
##	2019-09-30	-6.935785e-15	0
##	2019-10-03	1.008000e+00	1
##	2019-10-07	6.000000e+00	6
##	2019-10-08	6.000000e+00	6
##	2019-10-09	6.000000e+00	6
##	2019-10-10	6.000000e+00	6
##	2019-10-21	2.000000e+00	2
##	2019-10-22	4.000000e+00	4
##	2019-10-25	4.000000e+00	4
##	2019-10-28	4.000000e+00	4
##	2019-10-31	3.000000e+00	3
##	2019-11-01	3.000000e+00	3
##	2019-11-06	-6.884271e-15	0
##	2019-11-07	-7.034373e-15	0
##	2019-11-08	-7.922552e-15	0
##	2019-11-14	1.998000e+00	2
##	2019-11-15	2.000000e+00	2
##	2019-11-19	1.000000e+00	1
##	2019-12-02	-6.966872e-15	0
##	2019-12-05	1.000000e+00	1
##	2019-12-09	-6.961542e-15	0
##	2019-12-10	-6.900258e-15	0
##	2019-12-12	1.000000e+00	1
##	2019-12-13	2.000000e+00	2
##	2019-12-16	2.000000e+00	2
##	2019-12-18	3.000000e+00	3

```

## 2019-12-24 1.000000e+00 1
## 2019-12-26 1.000000e+00 1
## 2019-12-27 -7.923440e-15 0
## 2020-01-13 5.000000e+00 5
## 2020-01-22 1.998000e+00 2
## 2020-01-23 2.000000e+00 2
## 2020-01-27 1.000000e+00 1
## 2020-02-07 4.000000e+00 4
## 2020-02-13 2.000000e-03 0
## 2020-02-14 2.000000e-03 0
## 2020-02-18 -6.883383e-15 0
## 2020-02-21 -7.769785e-15 0
## 2020-02-24 -6.793677e-15 0
## 2020-02-25 -6.684431e-15 0
## 2020-02-27 -6.854073e-15 0
## 2020-03-06 -7.920775e-15 0
## 2020-03-09 1.002000e+00 1
## 2020-03-11 -6.752821e-15 0
## 2020-03-12 1.002000e+00 1

sum <- sum(predRF==testingSet$incrDaysThisCycle)
length <- length(testingSet$incrDaysThisCycle)
accuracy_rfMod <- (sum/length)
accuracy_rfMod

## [1] 0.4981651

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 type
## 2005-09-28 0.853999999999997 0
## 2005-10-07 1.046 1
## 2005-10-10 1.05 1
## 2005-10-14 1.052 1
## 2005-10-19 0.0359999999999994 0
## 2005-10-21 1.988 2
## 2005-10-24 1.996 2
## 2005-10-28 15 15
## 2005-11-14 14.99 15
## 2005-11-16 1.038 1
## 2005-11-22 1.998 2
## 2005-11-23 2.012 2
## 2005-12-06 1.998 2
## 2005-12-12 0.02999999999999932 0
## 2005-12-13 7.972 8

```

## 2005-12-14	7.97	8
## 2005-12-16	7.984	8
## 2005-12-23	7.992	8
## 2005-12-27	0.0119999999999932	0
## 2005-12-29	0.0419999999999933	0
## 2006-01-05	2.976	3
## 2006-01-06	-7.8186346286202e-15	0
## 2006-01-09	0.00799999999999316	0
## 2006-01-19	0.0259999999999931	0
## 2006-01-23	1.996	2
## 2006-01-24	2	2
## 2006-01-26	0.025999999999993	0
## 2006-01-27	3.992	4
## 2006-02-01	3.978	4
## 2006-02-03	0.00999999999999204	0
## 2006-02-07	2	2
## 2006-02-10	2.986	3
## 2006-02-15	2.996	3
## 2006-03-03	0.00599999999999211	0
## 2006-03-09	1	1
## 2006-03-20	7	7
## 2006-03-24	0.998	1
## 2006-03-28	1.004	1
## 2006-03-29	1.004	1
## 2006-03-30	1	1
## 2006-04-10	-6.95887791835048e-15	0
## 2006-04-11	-6.94910795573378e-15	0
## 2006-04-12	1	1
## 2006-04-17	2	2
## 2006-04-18	2	2
## 2006-04-20	-6.99085234145969e-15	0
## 2006-04-27	4	4
## 2006-05-02	5	5
## 2006-05-05	5	5
## 2006-05-12	1	1
## 2006-05-25	2	2
## 2006-05-31	1	1
## 2006-06-02	-7.97584220890712e-15	0
## 2006-06-05	3.986	4
## 2006-06-06	3.992	4
## 2006-06-08	4	4
## 2006-06-12	-6.97752966516418e-15	0
## 2006-06-19	5	5
## 2006-06-28	5	5
## 2006-06-30	5	5
## 2006-07-12	-6.90825174842757e-15	0
## 2006-07-13	-7.00772773143399e-15	0
## 2006-07-21	3	3
## 2006-07-24	3	3
## 2006-07-26	2.994	3

## 2006-07-27	1	1
## 2006-07-28	1.006	1
## 2006-08-01	2	2
## 2006-08-04	-7.89590615113411e-15	0
## 2006-08-09	-6.91802171104428e-15	0
## 2006-08-10	-7.05302483083869e-15	0
## 2006-08-21	0.996	1
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## 2013-09-12	3	3
## 2013-09-17	3	3
## 2013-09-23	3	3
## 2013-10-03	4	4
## 2013-10-15	5	5
## 2013-10-22	5	5
## 2013-10-23	1	1
## 2013-10-25	-7.93942689369942e-15	0
## 2013-10-30	2	2
## 2013-10-31	2	2

## 2013-11-08	3	3
## 2013-11-14	3	3
## 2013-11-20	-7.03614944086439e-15	0
## 2013-11-22	0.998	1
## 2013-11-26	1	1
## 2013-11-29	-7.99360577730113e-15	0
## 2013-12-10	5	5
## 2013-12-19	1	1
## 2013-12-23	1	1
## 2014-01-06	4	4
## 2014-01-17	5	5
## 2014-01-21	5	5
## 2014-01-22	5	5
## 2014-01-23	5	5
## 2014-01-27	3	3
## 2014-01-30	3	3
## 2014-02-03	2	2
## 2014-02-11	-7.02193858614919e-15	0
## 2014-02-21	5	5
## 2014-02-25	5	5
## 2014-02-26	-6.98641144936118e-15	0
## 2014-03-03	4	4
## 2014-03-06	4	4
## 2014-03-07	3.958	4
## 2014-03-12	-7.04325486822199e-15	0
## 2014-03-18	-7.03082037034619e-15	0
## 2014-03-19	-7.05124847399929e-15	0
## 2014-03-24	2	2
## 2014-03-25	1.998	2
## 2014-03-28	2	2
## 2014-03-31	2	2
## 2014-04-01	1.998	2
## 2014-04-04	-8.02291566515123e-15	0
## 2014-04-07	2	2
## 2014-04-16	2	2
## 2014-04-22	4	4
## 2014-04-28	1	1
## 2014-05-01	8	8
## 2014-05-02	8	8
## 2014-05-06	8	8
## 2014-05-15	2	2
## 2014-05-16	2	2
## 2014-05-19	2	2
## 2014-05-20	10	10
## 2014-05-22	10	10
## 2014-06-02	10	10
## 2014-06-03	10	10
## 2014-06-09	1	1
## 2014-06-12	6	6
## 2014-06-13	5.988	6

## 2014-06-17	6	6
## 2014-06-26	2	2
## 2014-06-27 -7.97140131680862e-15		0
## 2014-06-30	1	1
## 2014-07-16 -6.98197055726268e-15		0
## 2014-07-17	1	1
## 2014-07-21 -6.98729962778089e-15		0
## 2014-07-22 1.01		1
## 2014-08-04 -6.98374691410209e-15		0
## 2014-08-08	2	2
## 2014-08-11	2	2
## 2014-08-21	1	1
## 2014-08-22	1	1
## 2014-08-27	1	1
## 2014-08-29	1	1
## 2014-09-18 1.006		1
## 2014-09-24	1	1
## 2014-09-25	1	1
## 2014-09-26	1	1
## 2014-09-29	1	1
## 2014-10-01 -6.98019420042328e-15		0
## 2014-10-02	1	1
## 2014-10-07 -6.96243063202928e-15		0
## 2014-10-10 -7.94475596421762e-15		0
## 2014-10-13 5.97		6
## 2014-10-30	4	4
## 2014-11-03	4	4
## 2014-11-13	1	1
## 2014-11-17	1	1
## 2014-11-19	1	1
## 2014-11-28	3	3
## 2014-12-02	3	3
## 2014-12-09	2	2
## 2014-12-11	2	2
## 2014-12-15	1	1
## 2014-12-17	4	4
## 2014-12-18	4	4
## 2015-01-02	6	6
## 2015-01-06 -6.98019420042328e-15		0
## 2015-01-07	1	1
## 2015-01-08	1	1
## 2015-01-13	1	1
## 2015-01-15	5	5
## 2015-01-20	5	5
## 2015-01-23	5	5
## 2015-01-29	1	1
## 2015-01-30 -7.99893484781933e-15		0
## 2015-02-02 -6.99085234145969e-15		0
## 2015-02-03	1	1
## 2015-02-05 -7.19513337799072e-15		0

## 2015-02-11	2	2
## 2015-02-18	5	5
## 2015-02-23	5	5
## 2015-02-27	3	3
## 2015-03-03	3	3
## 2015-03-06	-8.00159938307843e-15	0
## 2015-03-09	-6.98197055726268e-15	0
## 2015-03-10	8	8
## 2015-03-11	8	8
## 2015-03-12	8	8
## 2015-03-16	8	8
## 2015-03-20	8	8
## 2015-03-23	-6.94733159889438e-15	0
## 2015-03-30	1.994	2
## 2015-04-06	-6.98907598462029e-15	0
## 2015-04-20	5	5
## 2015-04-23	5	5
## 2015-04-24	5	5
## 2015-05-01	1	1
## 2015-05-11	1	1
## 2015-05-14	1	1
## 2015-05-27	1	1
## 2015-06-01	1.986	2
## 2015-06-02	-6.98197055726268e-15	0
## 2015-06-10	2	2
## 2015-06-16	4	4
## 2015-06-22	3.98	4
## 2015-06-23	-6.98463509252178e-15	0
## 2015-06-24	-7.03792579770379e-15	0
## 2015-06-25	-7.1107564281192e-15	0
## 2015-06-29	1.018	1
## 2015-07-02	3	3
## 2015-07-08	3	3
## 2015-07-10	3	3
## 2015-07-14	-7.01128044511279e-15	0
## 2015-07-24	2	2
## 2015-07-28	1.998	2
## 2015-07-31	3	3
## 2015-08-07	2	2
## 2015-08-10	2	2
## 2015-08-17	2.98	3
## 2015-08-19	-6.98197055726268e-15	0
## 2015-08-24	-6.95443702625198e-15	0
## 2015-08-28	3	3
## 2015-09-02	3	3
## 2015-09-09	8	8
## 2015-09-15	8	8
## 2015-09-18	-8.03357380618763e-15	0
## 2015-09-22	1	1
## 2015-09-23	1	1

## 2015-09-24	-7.22089055216202e-15	0
## 2015-10-08	4	4
## 2015-10-12	4	4
## 2015-10-19	2	2
## 2015-10-28	-7.05124847399929e-15	0
## 2015-10-29	3	3
## 2015-11-06	-7.03082037034619e-15	0
## 2015-11-17	-6.19060358530987e-15	0
## 2015-11-18	1.036	1
## 2015-11-20	1	1
## 2015-11-23	1	1
## 2015-11-24	2	2
## 2015-11-27	2	2
## 2015-12-07	2	2
## 2015-12-11	-7.94120325053882e-15	0
## 2015-12-15	2	2
## 2015-12-16	2	2
## 2015-12-17	-7.1196382123162e-15	0
## 2015-12-21	4	4
## 2015-12-24	4	4
## 2015-12-30	-7.05124847399929e-15	0
## 2016-01-04	-6.99440505513849e-15	0
## 2016-01-05	1	1
## 2016-01-06	1	1
## 2016-01-11	2	2
## 2016-01-12	2	2
## 2016-01-13	1	1
## 2016-01-14	1	1
## 2016-01-15	4	4
## 2016-01-25	2	2
## 2016-01-29	2	2
## 2016-02-04	2	2
## 2016-02-10	2	2
## 2016-02-12	6	6
## 2016-02-18	6	6
## 2016-02-29	2	2
## 2016-03-08	1	1
## 2016-03-16	1	1
## 2016-03-28	3	3
## 2016-04-11	5	5
## 2016-04-14	5	5
## 2016-05-04	-6.98019420042328e-15	0
## 2016-05-19	-7.22444326584082e-15	0
## 2016-05-24	2	2
## 2016-05-31	3	3
## 2016-06-09	4	4
## 2016-06-14	1	1
## 2016-06-16	3	3
## 2016-06-17	3	3
## 2016-06-20	3	3

## 2016-06-22	1	1
## 2016-06-29	4	4
## 2016-07-06	4	4
## 2016-07-07	4	4
## 2016-07-08	4	4
## 2016-07-11	4	4
## 2016-07-20 -7.04680758190079e-15	0	0
## 2016-07-21	1	1
## 2016-07-28	1	1
## 2016-08-02 -6.90825174842757e-15	0	0
## 2016-08-05	2	2
## 2016-08-09	1	1
## 2016-08-12	2	2
## 2016-08-15	2	2
## 2016-08-18	1	1
## 2016-08-24	3	3
## 2016-08-26 -7.96518406787072e-15	0	0
## 2016-08-31 -6.98374691410209e-15	0	0
## 2016-09-01	4	4
## 2016-09-14	1	1
## 2016-09-23	2	2
## 2016-10-06	2	2
## 2016-10-14 -7.96340771103132e-15	0	0
## 2016-10-24 -6.97397695148538e-15	0	0
## 2016-10-25 -6.98374691410209e-15	0	0
## 2016-10-27	3	3
## 2016-11-01 -7.01927405089009e-15	0	0
## 2016-11-02 -7.05036029557959e-15	0	0
## 2016-11-03	4	4
## 2016-11-08	4	4
## 2016-11-11	3	3
## 2016-11-16	2	2
## 2016-11-18	2	2
## 2016-11-23	2	2
## 2016-11-25	2	2
## 2016-11-29	1	1
## 2016-12-01	1	1
## 2016-12-07	2	2
## 2016-12-09	1	1
## 2016-12-12	3	3
## 2016-12-30 -7.99538213414053e-15	0	0
## 2017-01-05	4	4
## 2017-01-12 -7.19424519957101e-15	0	0
## 2017-01-18	1	1
## 2017-01-19	1	1
## 2017-01-25	3	3
## 2017-01-26 2.992	3	3
## 2017-02-08	3	3
## 2017-02-14	1	1
## 2017-02-24	4	4

## 2017-02-27	4	4
## 2017-03-06 -6.97752966516418e-15		0
## 2017-03-08	1	1
## 2017-03-13 -6.98285873568238e-15		0
## 2017-03-15	2	2
## 2017-03-20 -6.97397695148538e-15		0
## 2017-03-22	4	4
## 2017-03-27	4	4
## 2017-03-28	4	4
## 2017-03-30	1	1
## 2017-04-03	1	1
## 2017-04-05	6	6
## 2017-04-06	6	6
## 2017-04-10	6	6
## 2017-04-25	2	2
## 2017-04-28 -7.99449395572083e-15		0
## 2017-05-08	4	4
## 2017-05-09	4	4
## 2017-05-11 -7.1045391791813e-15		0
## 2017-05-19	6	6
## 2017-05-24	6	6
## 2017-05-25	6	6
## 2017-06-01	4	4
## 2017-06-09 -7.91544607636752e-15		0
## 2017-06-12 -6.94644342047468e-15		0
## 2017-06-13 -6.88693546635477e-15		0
## 2017-06-14 -6.94200252837618e-15		0
## 2017-06-16	1.002	1
## 2017-06-20	2	2
## 2017-06-22	2	2
## 2017-06-29	7	7
## 2017-07-05	7	7
## 2017-07-06	7	7
## 2017-07-07	7	7
## 2017-07-12	3	3
## 2017-07-17 0.00199999999999322		0
## 2017-07-18 -6.71640520977235e-15		0
## 2017-07-25	1.012	1
## 2017-08-01	1	1
## 2017-08-15 -6.98019420042328e-15		0
## 2017-08-16 -7.00328683933549e-15		0
## 2017-08-17 -7.15605352752391e-15		0
## 2017-08-18	1	1
## 2017-08-24	1	1
## 2017-08-31	2	2
## 2017-09-01	2	2
## 2017-09-07 -7.13473724545111e-15		0
## 2017-09-12	3	3
## 2017-09-27	1	1
## 2017-09-28	1	1

## 2017-10-04	3	3
## 2017-10-06	1	1
## 2017-10-11	-6.91979806788368e-15	0
## 2017-10-13	1	1
## 2017-10-24	1.006	1
## 2017-10-26	-7.1151973202177e-15	0
## 2017-11-17	3	3
## 2017-11-24	-7.95008503473582e-15	0
## 2017-11-28	3	3
## 2017-11-30	3	3
## 2017-12-11	4	4
## 2017-12-15	3	3
## 2017-12-22	1	1
## 2017-12-27	1	1
## 2018-01-04	1	1
## 2018-01-11	3	3
## 2018-01-22	2	2
## 2018-01-23	2	2
## 2018-01-24	-6.87006007638047e-15	0
## 2018-01-30	1	1
## 2018-02-01	-7.17648163117701e-15	0
## 2018-02-08	-7.04858393874019e-15	0
## 2018-02-09	4	4
## 2018-02-14	4	4
## 2018-02-15	4	4
## 2018-02-21	5	5
## 2018-02-22	5	5
## 2018-03-07	6	6
## 2018-03-12	6	6
## 2018-03-13	-6.92423895998218e-15	0
## 2018-03-20	1	1
## 2018-03-26	1.004	1
## 2018-03-27	-6.87538914689867e-15	0
## 2018-03-29	1.004	1
## 2018-04-05	3	3
## 2018-04-18	1	1
## 2018-04-20	-7.92610421740392e-15	0
## 2018-04-23	-6.95177249099288e-15	0
## 2018-04-30	1	1
## 2018-05-02	-6.94821977731408e-15	0
## 2018-05-03	1	1
## 2018-05-07	1	1
## 2018-05-08	1	1
## 2018-05-11	2	2
## 2018-05-16	2	2
## 2018-05-17	-7.12763181809351e-15	0
## 2018-05-23	2	2
## 2018-06-05	1	1
## 2018-06-06	1	1
## 2018-06-19	1	1

## 2018-06-21	-6.96775970254748e-15	0
## 2018-06-29	1.008	1
## 2018-07-05	3	3
## 2018-07-06	3	3
## 2018-07-17	5	5
## 2018-07-26	2	2
## 2018-07-27	-7.96873678154952e-15	0
## 2018-08-01	-6.94022617153678e-15	0
## 2018-08-02	1.014	1
## 2018-08-03	1	1
## 2018-08-09	-7.23332505003782e-15	0
## 2018-08-27	2	2
## 2018-08-30	2	2
## 2018-09-04	2	2
## 2018-09-07	2	2
## 2018-09-20	7	7
## 2018-10-01	-6.99529323355819e-15	0
## 2018-10-02	1	1
## 2018-10-04	-6.93933799311708e-15	0
## 2018-10-18	-7.0858874323676e-15	0
## 2018-10-23	2	2
## 2018-11-07	1	1
## 2018-11-13	3	3
## 2018-11-14	3	3
## 2018-11-15	-7.19690973483011e-15	0
## 2018-11-19	-6.98641144936118e-15	0
## 2018-12-03	-6.96864788096718e-15	0
## 2018-12-10	3	3
## 2018-12-13	-7.15250081384511e-15	0
## 2018-12-14	-8.03268562776793e-15	0
## 2018-12-24	1	1
## 2018-12-27	-7.0947692165646e-15	0
## 2019-01-04	2	2
## 2019-01-10	-7.16493531172091e-15	0
## 2019-01-25	3	3
## 2019-01-31	3	3
## 2019-02-05	3	3
## 2019-02-22	3	3
## 2019-02-25	3	3
## 2019-03-01	-7.8257400559778e-15	0
## 2019-03-04	-6.89048818003357e-15	0
## 2019-03-06	-6.78657130492866e-15	0
## 2019-03-07	-6.99351687671879e-15	0
## 2019-03-13	2	2
## 2019-03-14	2	2
## 2019-03-20	1	1
## 2019-03-21	1	1
## 2019-03-22	-8.01136934569513e-15	0
## 2019-03-26	1	1
## 2019-03-27	1	1

## 2019-03-29	6	6
## 2019-04-10	2	2
## 2019-04-15	2	2
## 2019-04-22	2	2
## 2019-04-24	2	2
## 2019-04-29	2	2
## 2019-05-06	-6.97575330832478e-15	0
## 2019-05-07	-6.97575330832478e-15	0
## 2019-05-08	2	2
## 2019-05-10	2	2
## 2019-05-16	1	1
## 2019-05-22	-6.77857769915136e-15	0
## 2019-06-10	-6.96331881044898e-15	0
## 2019-06-14	-8.02380384357093e-15	0
## 2019-06-19	1	1
## 2019-06-21	1	1
## 2019-06-26	4	4
## 2019-07-10	3	3
## 2019-07-11	3	3
## 2019-07-19	-7.93676235844032e-15	0
## 2019-07-23	2	2
## 2019-08-05	-6.69597710611924e-15	0
## 2019-08-06	2.002	2
## 2019-08-07	2	2
## 2019-08-14	-6.95088431257318e-15	0
## 2019-08-16	2	2
## 2019-08-23	-8.01048116727543e-15	0
## 2019-09-06	9.006	9
## 2019-09-19	-7.1205263907359e-15	0
## 2019-09-26	-7.05391300925839e-15	0
## 2019-09-30	-6.93578527943828e-15	0
## 2019-10-03	1.008	1
## 2019-10-07	6	6
## 2019-10-08	6	6
## 2019-10-09	6	6
## 2019-10-10	6	6
## 2019-10-21	2	2
## 2019-10-22	4	4
## 2019-10-25	4	4
## 2019-10-28	4	4
## 2019-10-31	3	3
## 2019-11-01	3	3
## 2019-11-06	-6.88427093109567e-15	0
## 2019-11-07	-7.03437308402499e-15	0
## 2019-11-08	-7.92255150372512e-15	0
## 2019-11-14	1.998	2
## 2019-11-15	2	2
## 2019-11-19	1	1
## 2019-12-02	-6.96687152412778e-15	0
## 2019-12-05	1	1


```

## 2019-12-09 -6.96154245360958e-15 0
## 2019-12-10 -6.90025814265027e-15 0
## 2019-12-12 1 1
## 2019-12-13 2 2
## 2019-12-16 2 2
## 2019-12-18 3 3
## 2019-12-24 1 1
## 2019-12-26 1 1
## 2019-12-27 -7.92343968214482e-15 0
## 2020-01-13 5 5
## 2020-01-22 1.998 2
## 2020-01-23 2 2
## 2020-01-27 1 1
## 2020-02-07 4 4
## 2020-02-13 0.00199999999999293 0
## 2020-02-14 0.00199999999999205 0
## 2020-02-18 -6.88338275267597e-15 0
## 2020-02-21 -7.76978481553669e-15 0
## 2020-02-24 -6.79367673228626e-15 0
## 2020-02-25 -6.68443078666314e-15 0
## 2020-02-27 -6.85407286482587e-15 0
## 2020-03-06 -7.92077514688572e-15 0
## 2020-03-09 1.002 1
## 2020-03-11 -6.75282052498005e-15 0
## 2020-03-12 1.002 1
## results 0.5 100

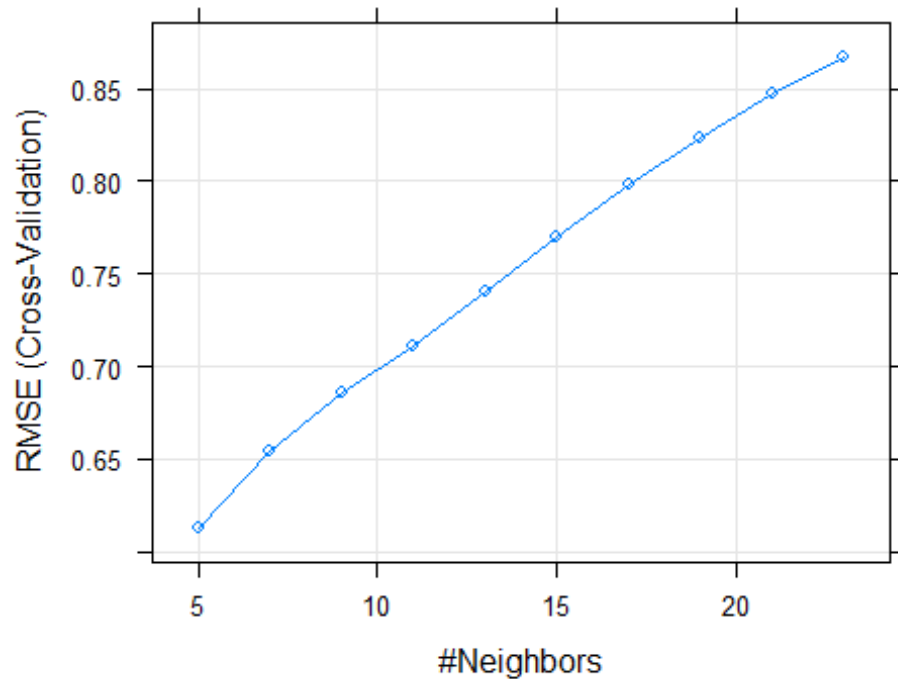
```

```

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)

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,
                      TYPE=testingSet$incrDaysThisCycle)
colnames(predDF2) <- c('RandomForest', 'KNN', 'Rpart', 'GLM', 'TrueValue')

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', 'TrueValue')
Results <- rbind(predDF2, results)
Results

```

##	RandomForest	KNN	Rpart
GLM			
## 2005-09-28	0.853999999999997	1	0 -2.42070207540644e-14
## 2005-10-07	1.046	1.8	1
0.9999999999999965			
## 2005-10-10	1.05	1.4	1
1			
## 2005-10-14	1.052	1	1
0.9999999999999974			
## 2005-10-19	0.0359999999999994	0	0 -3.10904035067404e-14
## 2005-10-21	1.988	3.2	2
1.999999999999997			
## 2005-10-24	1.996	1.8	2
2			
## 2005-10-28	15	15	14.4
14.99999999999999			
## 2005-11-14	14.99	13.6	14.4
15			
## 2005-11-16	1.038	1.4	1
0.9999999999999965			
## 2005-11-22	1.998	2.2	2
1.999999999999998			
## 2005-11-23	2.012	2	2
1.999999999999997			
## 2005-12-06	1.998	2.2	2
1.999999999999998			
## 2005-12-12	0.0299999999999932	0	0 -5.77731854528682e-15
## 2005-12-13	7.972	3.6	8.65116279069767
7.999999999999995			
## 2005-12-14	7.97	5.8	8.65116279069767
7.999999999999996			
## 2005-12-16	7.984	5.6	8.65116279069767
7.999999999999996			
## 2005-12-23	7.992	4.2	8.65116279069767
7.999999999999995			
## 2005-12-27	0.0119999999999932	0	0 -2.70936006180898e-

14				
## 2005-12-29	0.041999999999933	0		0 -2.79817790377899e-
14				
## 2006-01-05	2.976	2.4		3
2.99999999999997				
## 2006-01-06	-7.8186346286202e-15	0		0 -3.15344927165904e-
14				
## 2006-01-09	0.0079999999999316	0		0 -4.66709552066166e-
15				
## 2006-01-19	0.025999999999931	0		0 -2.59833775934647e-
14				
## 2006-01-23	1.996	3		2
2				
## 2006-01-24	2	1.4		2
1.99999999999997				
## 2006-01-26	0.02599999999993	0		0 -2.53172437786896e-
14				
## 2006-01-27	3.992	3		4
3.99999999999996				
## 2006-02-01	3.978	3.2		4
3.99999999999997				
## 2006-02-03	0.0099999999999204	0		0 -3.19785819264405e-
14				
## 2006-02-07	2	2		2
1.99999999999997				
## 2006-02-10	2.986	2.4		3
2.99999999999996				
## 2006-02-15	2.996	2.4		3
2.99999999999997				
## 2006-03-03	0.0059999999999211	0		0 -3.04242696919653e-
14				
## 2006-03-09	1	1.6		1
0.999999999999971				
## 2006-03-20	7	6.4	6.24242424242424	
6.99999999999999				
## 2006-03-24	0.998	1.2		1
0.999999999999963				
## 2006-03-28	1.004	2		1
0.999999999999974				
## 2006-03-29	1.004	1.8		1
0.999999999999976				
## 2006-03-30	1	2		1
0.999999999999969				
## 2006-04-10	-6.95887791835048e-15	0		0 -1.11438184186116e-
15				
## 2006-04-11	-6.94910795573378e-15	0		0 -2.70936006180898e-
14				
## 2006-04-12	1	1		1
0.999999999999964				
## 2006-04-17	2	2.2		2

1.99999999999999			
## 2006-04-18	2	2.4	2
1.99999999999998			
## 2006-04-20 -6.99085234145969e-15	0		0 -2.75376898279399e-14
## 2006-04-27	4	3	4
3.99999999999997			
## 2006-05-02	5	3.8	5
4.99999999999997			
## 2006-05-05	5	4.2	5
4.99999999999996			
## 2006-05-12	1	1.6	1
0.999999999999964			
## 2006-05-25	2	2.2	2
1.99999999999998			
## 2006-05-31	1	2	1
0.999999999999968			
## 2006-06-02 -7.97584220890712e-15	0		0 -3.41990279756908e-14
## 2006-06-05	3.986	2	4
3.99999999999998			
## 2006-06-06	3.992	3.8	4
3.99999999999997			
## 2006-06-08	4	4.4	4
3.99999999999997			
## 2006-06-12 -6.97752966516418e-15	0		0 3.32651025663947e-15
## 2006-06-19	5	4.4	5
4.99999999999999			
## 2006-06-28	5	1.8	5
4.99999999999995			
## 2006-06-30	5	3.6	5
4.99999999999996			
## 2006-07-12 -6.90825174842757e-15	0		0 -3.13124481116654e-14
## 2006-07-13 -7.00772773143399e-15	0		0 -1.75456826063135e-14
## 2006-07-21	3	2.6	3
2.99999999999996			
## 2006-07-24	3	3.6	3
3			
## 2006-07-26	2.994	2.2	3
2.99999999999997			
## 2006-07-27	1	2.2	1
0.999999999999977			
## 2006-07-28	1.006	1.4	1
0.999999999999973			
## 2006-08-01	2	1.8	2
1.99999999999997			
## 2006-08-04 -7.89590615113411e-15	0		0 -2.77597344328649e-15

14			
## 2006-08-09	-6.91802171104428e-15	0	0 -2.70936006180898e-
14			
## 2006-08-10	-7.05302483083869e-15	0	0 -2.57613329885396e-
14			
## 2006-08-21	0.996	1.4	1
0.999999999999995			
## 2006-08-22	1	1.2	1
0.999999999999976			
## 2006-08-25	3	2.8	3
2.99999999999996			
## 2006-08-31	-7.04325486822199e-15	0	0 -2.53172437786896e-
14			
## 2006-09-08	2	1.8	2
1.99999999999997			
## 2006-09-15	-7.92077514688572e-15	0	0 -3.41990279756908e-
14			
## 2006-09-18	2	1.6	2
1.99999999999999			
## 2006-09-20	2	2.4	2
1.99999999999997			
## 2006-09-22	3	3.2	3
2.99999999999997			
## 2006-09-25	3	3.2	3
3			
## 2006-09-26	3	2.6	3
2.99999999999997			
## 2006-10-02	3	3.2	3
3			
## 2006-10-12	1.006	1	1
0.999999999999979			
## 2006-10-16	-6.99174051987939e-15	0	0 -4.66709552066166e-
15			
## 2006-10-17	5	2.6	5
4.99999999999996			
## 2006-10-18	5	4.6	5
4.99999999999997			
## 2006-10-27	1	1.2	1
0.999999999999962			
## 2006-10-30	1	1.4	1
0.999999999999996			
## 2006-11-06	2	2.8	2
2			
## 2006-11-13	2	1	2
1.99999999999999			
## 2006-11-17	3	1.8	3
2.99999999999996			
## 2006-11-20	3	3.6	3
3			
## 2006-11-27	-6.83897383169096e-15	0.2	0 4.10366637387708e-

15			
## 2006-12-08	2	3.2	2
1.999999999999997			
## 2006-12-14	-6.97397695148538e-15	0	0 -2.37629315442144e-
14			
## 2006-12-15	-7.92876875266302e-15	0	0 -3.39769833707658e-
14			
## 2006-12-27	2	2	2
1.999999999999997			
## 2007-01-04	2.004	2	2
1.999999999999997			
## 2007-01-08	-6.89936996423057e-15	0.2	0 -8.21980919946216e-
15			
## 2007-01-12	1	1.4	1
0.9999999999999961			
## 2007-01-16	1	1.2	1
0.9999999999999974			
## 2007-01-17	-6.75104416814065e-15	0	0 -2.66495114082398e-
14			
## 2007-01-22	-6.92335078156248e-15	0.2	0 -5.55527394036178e-
15			
## 2007-01-24	2	2.2	2
1.999999999999998			
## 2007-01-31	2	2.2	2
1.999999999999997			
## 2007-02-01	2	1.6	2
1.999999999999997			
## 2007-02-05	1	1.2	1
0.999999999999998			
## 2007-02-06	-6.75903777391795e-15	0	0 -3.10904035067404e-
14			
## 2007-02-08	1	1.6	1
0.9999999999999975			
## 2007-02-13	2.008	1.6	2
1.999999999999998			
## 2007-02-20	-6.51656506533982e-15	0.2	0 -2.50951991737645e-
14			
## 2007-02-23	0.00199999999999241	0	0 -3.06463142968903e-
14			
## 2007-03-01	-7.1134209633783e-15	0	0 -3.06463142968903e-
14			
## 2007-03-14	1	1.6	1
0.9999999999999966			
## 2007-03-20	3	3.4	3
2.999999999999998			
## 2007-03-22	-6.94111434995648e-15	0	0 -2.22086193097391e-
14			
## 2007-03-23	-7.8204109854596e-15	0	0 -3.13124481116654e-
14			
## 2007-03-27	-6.74571509762245e-15	0.2	0 -2.66495114082398e-

14			
## 2007-03-28	-6.80788758700146e-15	0	0 -2.99801804821152e-
14			
## 2007-04-10	-6.94910795573378e-15	0	0 -2.53172437786896e-
14			
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3.99999999999997			
## 2007-04-19	-6.96154245360958e-15	0	0 -2.19865747048141e-
14			
## 2007-04-24	-6.78479494808926e-15	0.2	0 -2.53172437786896e-
14			
## 2007-04-26	-6.93489710101858e-15	0	0 -1.62134149767633e-
14			
## 2007-04-27	-7.8150819149414e-15	0	0 -2.50951991737645e-
14			
## 2007-04-30	1.012	0.2	1
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## 2007-05-03	1	1.6	1
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## 2007-05-07	-6.98552327094149e-15	0	0 -4.2230063108116e-
15			
## 2007-05-08	-6.96687152412778e-15	0	0 -2.73156452230149e-
14			
## 2007-05-09	-6.99529323355819e-15	0	0 -3.35328941609157e-
14			
## 2007-05-22	3	2.6	3
2.99999999999997			
## 2007-05-23	3	2.8	3
2.99999999999997			
## 2007-05-30	1.998	2.4	2
1.99999999999997			
## 2007-06-05	-6.90469903474877e-15	0	0 -2.64274668033147e-
14			
## 2007-06-07	1.014	1	1
0.999999999999977			
## 2007-06-12	-6.96420698886868e-15	0	0 -2.79817790377899e-
14			
## 2007-06-14	1	1.2	1
0.999999999999979			
## 2007-06-15	-7.94031507211912e-15	0	0 -3.10904035067404e-
14			
## 2007-06-29	5	4.8	5
4.99999999999995			
## 2007-07-02	5	4.8	5
4.99999999999999			
## 2007-07-06	5	5.4	5
4.99999999999996			
## 2007-07-11	2	2.2	2
1.99999999999997			
## 2007-07-13	2	1.8	2

1.999999999999996				
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##	2007-08-06	2	2.4	2
1.999999999999999				
##	2007-08-09	0.00199999999999295	0.2	0 -2.22086193097391e-14
##	2007-08-13	1	1.4	1
1				
##	2007-08-14	-6.87894186057747e-15	0	0 -2.70936006180898e-14
##	2007-08-20	3	3	3
3				
##	2007-08-22	3	2.2	3
2.999999999999996				
##	2007-08-23	1	1	1
0.9999999999999971				
##	2007-08-29	4	2.4	4
3.999999999999997				
##	2007-09-04	3.994	1.8	4
3.999999999999997				
##	2007-09-06	-7.17026438223911e-15	0	0 -2.77597344328649e-14
##	2007-09-11	1.002	1.2	1
0.9999999999999974				
##	2007-09-13	1.996	2.6	2
1.999999999999998				
##	2007-09-17	2	2.4	2
1.999999999999999				
##	2007-09-20	-7.17470527433761e-15	0	0 -2.70936006180898e-14
##	2007-09-27	-7.0885519676267e-15	0	0 -2.79817790377899e-14
##	2007-10-03	7	5.4	6.24242424242424
6.999999999999996				
##	2007-10-09	7	4.8	6.24242424242424
6.999999999999996				
##	2007-10-12	1	1.4	1
0.9999999999999971				
##	2007-10-15	2	2.4	2
1.999999999999999				
##	2007-10-23	3	3.2	3
2.999999999999997				
##	2007-10-24	3	2.2	3
2.999999999999997				
##	2007-10-26	-8.01403388095423e-15	0	0 -3.46431171855409e-14
##	2007-10-29	1.008	1.6	1
0.999999999999991				
##	2007-11-07	-6.81943390645756e-15	0	0 -2.70936006180898e-14

14			
## 2007-11-12	3	3.2	3
3			
## 2007-11-15	-7.19158066431191e-15	0	0 -2.70936006180898e-
14			
## 2007-11-16	-7.98827670678293e-15	0	0 -3.08683589018154e-
14			
## 2007-11-19	-6.97752966516418e-15	0	0 8.84019602464124e-
16			
## 2007-11-21	2	2.6	2
1.999999999999998			
## 2007-11-23	2	1.4	2
1.999999999999997			
## 2007-11-28	1	1	1
0.9999999999999971			
## 2007-11-30	1.004	1	1
0.9999999999999972			
## 2007-12-06	2	1.4	2
1.999999999999997			
## 2007-12-14	-7.91189336268872e-15	0	0 -3.35328941609157e-
14			
## 2007-12-20	3	3	3
2.999999999999998			
## 2007-12-21	1	1.2	1
0.9999999999999964			
## 2007-12-26	-6.15507644852187e-15	0	0 -2.48731545688395e-
14			
## 2007-12-28	-7.02549129982799e-15	0	0 -2.55392883836146e-
14			
## 2007-12-31	-6.22701890051758e-15	0	0 2.1788578768903e-
16			
## 2008-01-09	1.024	0.8	1
0.9999999999999971			
## 2008-01-14	3	2.6	3
3			
## 2008-01-18	1	1	1
0.9999999999999973			
## 2008-01-23	1	1	1
0.9999999999999971			
## 2008-01-24	-7.03526126244469e-15	0	0 -2.57613329885396e-
14			
## 2008-02-05	3	3	3
2.999999999999998			
## 2008-02-11	-6.96065427518988e-15	0	0 -6.44345236006191e-
15			
## 2008-02-20	1	1.4	1
0.9999999999999975			
## 2008-03-10	-6.86650736270167e-15	0	0 2.21628723201431e-
15			
## 2008-03-12	-6.73860967026485e-15	0	0 -2.26527085195892e-

14			
## 2008-03-17	4.978	2.2	5
4.999999999999999			
## 2008-03-24	5	4	5
4.999999999999999			
## 2008-04-03	4	3.8	4
3.999999999999998			
## 2008-04-07	4	3.8	4
4			
## 2008-04-09	1	1.2	1
0.999999999999971			
## 2008-04-10	1	1.6	1
0.999999999999998			
## 2008-04-14 -6.95443702625198e-15		0	0 -3.77891710096153e-
15			
## 2008-04-30	0.998	1.4	1
0.999999999999967			
## 2008-05-01	1	1.2	1
0.999999999999977			
## 2008-05-06 -6.94644342047468e-15		0	0 -2.46511099639145e-
14			
## 2008-05-07 -6.92690349524128e-15		0	0 -2.62054221983897e-
14			
## 2008-05-12 -6.95088431257318e-15		0	0 -5.33322933543675e-
15			
## 2008-05-13	3	2.4	3
2.999999999999996			
## 2008-05-14	3	3.2	3
2.999999999999997			
## 2008-05-15	3	3	3
2.999999999999998			
## 2008-05-16	2.998	1.4	3
2.999999999999997			
## 2008-05-22 -7.0814465402691e-15		0	0 -2.55392883836146e-
14			
## 2008-05-28	0.996	1.4	1
0.999999999999969			
## 2008-06-02	3.002	2.8	3
2.999999999999999			
## 2008-06-05	3.008	2.6	3
2.999999999999997			
## 2008-06-12	2.988	2.4	3
2.999999999999997			
## 2008-06-13	3	3.4	3
2.999999999999997			
## 2008-06-17	3	3.4	3
2.999999999999997			
## 2008-06-18	0.998	1.4	1
0.999999999999969			
## 2008-06-23 -6.42774722336981e-15		0.4	0 2.43833183693934e-

15			
## 2008-06-24	1	1	1
0.999999999999997			
## 2008-07-01 -6.60360655047043e-15	0		0 -2.68715560131648e-14
## 2008-07-03	2.998	2.8	3
2.999999999999998			
## 2008-07-16	3	3	3
2.999999999999996			
## 2008-07-21	2	2.2	2
1.999999999999999			
## 2008-07-31	5.992	4.8	6.24242424242424
5.999999999999997			
## 2008-08-07	4	3.8	4
3.999999999999998			
## 2008-08-08	4	3.8	4
3.999999999999996			
## 2008-08-11	4	3.4	4
4			
## 2008-08-12	3.998	3.2	4
3.999999999999997			
## 2008-08-13 -6.90913992684727e-15	0		0 -3.08683589018154e-14
## 2008-08-19 -6.85851375692437e-15	0		0 -1.93220394457137e-14
## 2008-08-21	1	1.4	1
0.9999999999999974			
## 2008-08-25 -6.95710156151108e-15	0		0 -5.99936315021185e-15
## 2008-08-29	3	3.6	3
2.999999999999997			
## 2008-09-04	1	1	1
0.9999999999999974			
## 2008-09-08 -6.96065427518988e-15	0		0 -4.88914012558669e-15
## 2008-09-12	2	1.8	2
1.999999999999997			
## 2008-09-15	1	1.2	1
0.9999999999999991			
## 2008-10-02 -7.04414304664169e-15	0		0 -2.57613329885396e-14
## 2008-10-10	2	2.2	2
1.999999999999996			
## 2008-10-16	5	2.4	5
4.999999999999996			
## 2008-10-17	4.994	4.2	5
4.999999999999996			
## 2008-10-20	4.994	4.4	5
5			
## 2008-10-22	5	3.6	5

4.99999999999996			
## 2008-10-23	1	0.8	1
0.999999999999977			
## 2008-10-30	3	2.6	3
2.99999999999997			
## 2008-11-03	2.988	2	3
2.99999999999999			
## 2008-11-05	-6.91269264052608e-15	0	0 -2.42070207540644e-14
## 2008-11-10	1.016	2	1
0.999999999999993			
## 2008-11-11	0.998	1.2	1
0.999999999999998			
## 2008-11-18	-6.93578527943828e-15	0	0 -2.8203823642715e-14
## 2008-11-21	5	4.4	5
4.99999999999997			
## 2008-11-24	5	3.8	5
4.99999999999999			
## 2008-11-25	5	4.2	5
4.99999999999997			
## 2008-12-09	1	1	1
0.999999999999976			
## 2008-12-15	2	2.4	2
1.99999999999999			
## 2008-12-22	-6.95266066941258e-15	0	0 -5.33322933543675e-15
## 2008-12-24	1	1.2	1
0.999999999999973			
## 2008-12-26	-7.89857068639321e-15	0	0 -3.28667603461406e-14
## 2008-12-29	3	2.6	3
2.99999999999998			
## 2009-01-07	3	3	3
2.99999999999998			
## 2009-01-08	3	3.2	3
2.99999999999997			
## 2009-01-21	2	2.2	2
1.99999999999996			
## 2009-01-22	2.004	2.4	2
1.99999999999998			
## 2009-01-23	2	1.2	2
1.99999999999997			
## 2009-01-30	2	1.4	2
1.99999999999997			
## 2009-02-04	-6.82565115539546e-15	0	0 -3.02022250870403e-14
## 2009-02-05	1	1	1
0.999999999999997			
## 2009-02-11	2	2.2	2

1.99999999999997			
## 2009-02-18	-6.83275658275306e-15	0	0 -2.53172437786896e-14
## 2009-02-20	1.998	0.8	2
1.99999999999997			
## 2009-02-24	2.006	1.2	2
1.99999999999998			
## 2009-02-26	-7.01660951563099e-15	0	0 -2.62054221983897e-14
## 2009-03-02	-6.78035405599076e-15	0	0 7.72997300001608e-16
## 2009-03-04	1	1.2	1
0.999999999999976			
## 2009-03-10	4	4.6	4
3.99999999999997			
## 2009-03-12	3.998	4.4	4
3.99999999999997			
## 2009-03-17	2	2.4	2
1.99999999999998			
## 2009-03-19	-6.77413680705285e-15	0.4	0 -2.08763516801889e-14
## 2009-03-31	4.998	5	5
4.99999999999997			
## 2009-04-07	2.996	2.8	3
2.99999999999997			
## 2009-04-09	2.998	2.8	3
2.99999999999998			
## 2009-04-20	3.986	4.4	4
3.99999999999999			
## 2009-04-21	4	4.2	4
3.99999999999997			
## 2009-04-23	4	4.4	4
3.99999999999997			
## 2009-04-30	3.994	3.2	4
3.99999999999996			
## 2009-05-12	-6.76170230917705e-15	0	0 -2.33188423343643e-14
## 2009-05-20	-6.51390053008072e-15	0	0 -2.70936006180898e-14
## 2009-05-28	2.946	1.6	3
2.99999999999997			
## 2009-05-29	2.996	3.4	3
2.99999999999997			
## 2009-06-01	3	3.8	3
3			
## 2009-06-02	3	2.6	3
2.99999999999997			
## 2009-06-08	1.016	1.2	1
0.99999999999995			
## 2009-06-11	1.996	2.4	2

1.99999999999998			
## 2009-06-12	1.996	1.8	2
1.99999999999997			
## 2009-06-16	1.998	2.6	2
1.99999999999998			
## 2009-06-19 -7.75379760398209e-15	0		0 -3.10904035067404e-14
## 2009-06-22 -6.77857769915136e-15	0		0 -2.44664947141135e-15
## 2009-06-26 -7.47402140177655e-15	0		0 -3.33108495559907e-14
## 2009-06-29	1.008	1.2	1
0.999999999999992			
## 2009-07-01	1.026	1.2	1
0.999999999999966			
## 2009-07-02	1	1.2	1
0.999999999999998			
## 2009-07-08	1.01	1	1
0.999999999999966			
## 2009-07-09	1	1	1
0.999999999999981			
## 2009-07-10	1.016	1	1
0.999999999999965			
## 2009-07-17	1.004	1	1
0.999999999999964			
## 2009-07-20	1	1	1
1			
## 2009-07-24	5.982	5	6.24242424242424
5.99999999999996			
## 2009-08-05	2	1.8	2
1.99999999999997			
## 2009-08-07	1.002	1	1
0.999999999999973			
## 2009-08-11	2.006	1.4	2
1.99999999999997			
## 2009-08-19	4.972	3.8	5
4.99999999999996			
## 2009-08-26	4.99	2.8	5
4.99999999999996			
## 2009-09-01	9.014	3.2	8.65116279069767
8.99999999999995			
## 2009-09-08	9.014	6.2	8.65116279069767
8.99999999999996			
## 2009-09-10	9.008	6.2	8.65116279069767
8.99999999999996			
## 2009-09-11	9.014	6	8.65116279069767
8.99999999999996			
## 2009-09-14	9.008	5.6	8.65116279069767
8.99999999999999			
## 2009-09-21	1.004	1	1

1			
## 2009-09-25	1.998	1.2	2
1.99999999999997			
## 2009-09-28 -6.90913992684727e-15	0		0 -4.44505091573663e-
15			
## 2009-10-02	3	3.4	3
2.99999999999997			
## 2009-10-05	3	3.2	3
3			
## 2009-10-08	3	2.8	3
2.99999999999998			
## 2009-10-12	3	2.4	3
3			
## 2009-10-15	2.004	1.8	2
1.99999999999998			
## 2009-10-21 -6.79012401860746e-15	0		0 -2.42070207540644e-
14			
## 2009-10-28	1.004	0.4	1
0.999999999999967			
## 2009-11-05	2.994	3	3
2.99999999999998			
## 2009-11-06	3	3.2	3
2.99999999999997			
## 2009-11-09	3.002	2.4	3
3			
## 2009-11-11	1.002	1.2	1
0.999999999999976			
## 2009-12-08 -6.91890988946398e-15	0		0 -2.59833775934647e-
14			
## 2009-12-17 0.003999999999993	0		0 -2.62054221983897e-
14			
## 2009-12-30	1	1.2	1
0.999999999999977			
## 2010-01-04	0.998	1.2	1
0.999999999999992			
## 2010-01-05	1	1.2	1
0.999999999999976			
## 2010-01-14	3	2.6	3
2.99999999999998			
## 2010-01-28	4	4.6	4
3.99999999999997			
## 2010-02-02	3.998	2.8	4
3.99999999999997			
## 2010-02-08	3	3	3
3			
## 2010-02-09	3	2	3
2.99999999999997			
## 2010-02-12	3	3.2	3
2.99999999999997			
## 2010-02-16	3.024	2.4	3

2.99999999999998			
## 2010-02-24	4	3.2	4
3.99999999999997			
## 2010-02-25	2	1.6	2
1.99999999999997			
## 2010-03-05	1	1	1
0.999999999999975			
## 2010-03-10	2	1.6	2
1.99999999999997			
## 2010-03-15 -6.95621338309138e-15	0		0 -3.5568724960365e-15
## 2010-03-16 -6.96509516728838e-15	0		0 -2.53172437786896e-14
## 2010-03-19	3	1.6	3
2.99999999999996			
## 2010-03-22	3	3	3
3			
## 2010-03-25 -7.02549129982799e-15	0		0 -2.75376898279399e-14
## 2010-03-30	2	1.6	2
1.99999999999997			
## 2010-04-06 -6.98108237884298e-15	0		0 -2.75376898279399e-14
## 2010-04-08	1	1.2	1
0.999999999999977			
## 2010-04-12	1.004	1.6	1
1			
## 2010-04-15 -7.0929928597252e-15	0		0 -2.64274668033147e-14
## 2010-04-28	2	3.2	2
1.99999999999997			
## 2010-04-29	2.004	1.6	2
1.99999999999998			
## 2010-04-30	1	1	1
0.999999999999965			
## 2010-05-05	1	1.2	1
0.999999999999976			
## 2010-05-07	1	1	1
0.999999999999963			
## 2010-05-14	1	1	1
0.999999999999963			
## 2010-05-18	1	1	1
0.99999999999997			
## 2010-05-19	1	1.2	1
0.999999999999974			
## 2010-05-20	1.002	1	1
0.999999999999973			
## 2010-05-21	1	1	1
0.999999999999973			
## 2010-05-26	4	3.8	4

3.99999999999997			
## 2010-05-27	3.996	4	4
3.99999999999998			
## 2010-06-03	-7.14184267280871e-15	0	0 -2.70936006180898e-14
## 2010-06-04	0.00599999999999204	0	0 -3.04242696919653e-14
## 2010-06-07	1	1.4	1
0.999999999999992			
## 2010-06-08	1	1	1
0.999999999999998			
## 2010-06-16	3	3.2	3
2.999999999999998			
## 2010-06-18	0.00599999999999203	0	0 -3.28667603461406e-14
## 2010-06-21	-6.95976609677018e-15	0	0 -3.77891710096153e-15
## 2010-06-23	1	1.4	1
0.999999999999976			
## 2010-06-24	-7.1294081749329e-15	0	0 -2.77597344328649e-14
## 2010-06-28	-6.95798973993078e-15	0	0 -5.33322933543675e-15
## 2010-06-30	2	2.6	2
1.999999999999998			
## 2010-07-06	2	1.8	2
1.999999999999997			
## 2010-07-07	2	3.2	2
1.999999999999997			
## 2010-07-08	2	1.8	2
1.999999999999998			
## 2010-07-12	1	1.2	1
0.999999999999992			
## 2010-07-16	0.00599999999999205	0	0 -3.28667603461406e-14
## 2010-07-19	5	2.8	5
4.999999999999998			
## 2010-07-21	5	4.4	5
4.999999999999997			
## 2010-08-20	-7.95719046209342e-15	0	0 -3.33108495559907e-14
## 2010-08-25	1.002	1.2	1
0.999999999999977			
## 2010-08-31	4	3.4	4
3.999999999999998			
## 2010-09-01	4	4	4
3.999999999999997			
## 2010-09-03	4.014	1.4	4
3.999999999999997			
## 2010-09-08	-6.94999613415348e-15	0	0 -3.10904035067404e-15

14			
## 2010-09-17	2	2.2	2
1.99999999999996			
## 2010-09-21	2	1.6	2
1.99999999999998			
## 2010-09-22 -6.87805368215777e-15	0		0 -2.93140466673401e-14
## 2010-09-23	2	2	2
1.99999999999997			
## 2010-10-01	2	2.4	2
1.99999999999997			
## 2010-10-05	1	1	1
0.99999999999998			
## 2010-10-07	1	1.2	1
0.99999999999998			
## 2010-10-12	2	2.2	2
1.99999999999998			
## 2010-10-13	2	2	2
1.99999999999997			
## 2010-10-15	1	1	1
0.999999999999963			
## 2010-10-19	1	1.2	1
0.999999999999969			
## 2010-10-26	4	3.6	4
3.99999999999998			
## 2010-10-29 -7.97939492258593e-15	0		0 -3.41990279756908e-14
## 2010-11-08 -6.96864788096718e-15	0		0 -4.66709552066166e-15
## 2010-11-12	1	1	1
0.999999999999964			
## 2010-11-15	1	1	1
1			
## 2010-11-16	4	3.8	4
3.99999999999996			
## 2010-11-22	4	3.4	4
3.99999999999999			
## 2010-11-24	1	1	1
0.999999999999972			
## 2010-11-29 -6.96864788096718e-15	0		0 -4.2230063108116e-15
## 2010-12-06	1	1	1
1			
## 2010-12-10	1	1	1
0.999999999999975			
## 2010-12-17	2	1.2	2
1.99999999999996			
## 2010-12-21	2	1.4	2
1.99999999999998			
## 2010-12-28	2	2.4	2

1.99999999999998			
## 2011-01-04	4	3.8	4
3.99999999999996			
## 2011-01-10	4	3	4
3.99999999999999			
## 2011-01-24	4	4	4
4			
## 2011-01-31 -6.96154245360958e-15		0	0 -4.66709552066166e-
15			
## 2011-02-22 -6.96154245360958e-15		0	0 -2.42070207540644e-
14			
## 2011-02-23 -6.94289070679588e-15		0	0 -2.75376898279399e-
14			
## 2011-02-28	2	1.8	2
2			
## 2011-03-02	2	2.2	2
1.99999999999998			
## 2011-03-11	2	2.6	2
1.99999999999997			
## 2011-03-29	1	1.2	1
0.999999999999969			
## 2011-03-30	1.002	1.2	1
0.999999999999976			
## 2011-04-04 -6.96154245360958e-15		0	0 -4.88914012558669e-
15			
## 2011-04-06 -6.95177249099288e-15		0	0 -3.13124481116654e-
14			
## 2011-04-18	2	1.6	2
2			
## 2011-04-21	2	1.6	2
1.99999999999996			
## 2011-04-29	2	2.4	2
1.99999999999997			
## 2011-05-05	3	3.2	3
2.99999999999997			
## 2011-05-13	1	1	1
0.999999999999963			
## 2011-05-17 -6.87716550373807e-15		0	0 -2.8203823642715e-
14			
## 2011-05-19	1.028	2.6	1
0.99999999999998			
## 2011-05-25 -6.76969591495435e-15		0	0 -2.62054221983897e-
14			
## 2011-05-27 -7.8115292012626e-15		0	0 -2.97581358771902e-
14			
## 2011-06-01	1.006	0.2	1
0.999999999999968			
## 2011-06-02	1	1.4	1
0.999999999999979			
## 2011-06-03 -7.90123522165231e-15		0	0 -3.39769833707658e-

14			
## 2011-06-09	2	2.2	2
1.99999999999997			
## 2011-06-14	1	1.2	1
0.999999999999968			
## 2011-06-15	0.998	1.2	1
0.999999999999976			
## 2011-06-17	3	3	3
2.99999999999997			
## 2011-06-20	3	2.6	3
3			
## 2011-06-23	1	1.6	1
0.999999999999977			
## 2011-07-01	2	1.8	2
1.99999999999997			
## 2011-07-07	1.084	0	1
0.999999999999991			
## 2011-07-12	-6.09112760230346e-15	0	0 -1.68795487915384e-
14			
## 2011-07-13	0.00199999999999395	0	0 -2.1542485494964e-
14			
## 2011-07-18	-6.18971540689017e-15	0	0 7.32331314529003e-
15			
## 2011-07-19	-6.07958128284736e-15	0	0 -1.77677272112385e-
14			
## 2011-07-20	0.00199999999999396	0	0 -2.1320440890039e-
14			
## 2011-07-28	1.094	0	1
0.999999999999998			
## 2011-08-02	1	1	1
0.999999999999997			
## 2011-08-05	-7.91011700584932e-15	0	0 -3.50872063953909e-
14			
## 2011-08-18	-7.0778938265903e-15	0	0 -2.66495114082398e-
14			
## 2011-08-22	1	1.6	1
0.9999999999999989			
## 2011-08-23	1	1.4	1
0.999999999999976			
## 2011-08-25	2	2.2	2
1.99999999999997			
## 2011-08-26	1.998	2.2	2
1.99999999999997			
## 2011-08-30	1	1.2	1
0.999999999999967			
## 2011-09-08	-7.1294081749329e-15	0	0 -2.99801804821152e-
14			
## 2011-09-13	4	4.6	4
3.99999999999997			
## 2011-10-06	3	2.4	3

2.99999999999997			
## 2011-10-07	4	3.4	4
3.99999999999995			
## 2011-10-13	4	3	4
3.99999999999997			
## 2011-10-17	1	1.4	1
0.99999999999999			
## 2011-10-19	1	1.4	1
0.999999999999965			
## 2011-10-28	3.024	2.4	3
2.99999999999997			
## 2011-11-01 -6.93134438733978e-14		0	0 -2.8203823642715e-
## 2011-11-10	1	1.2	1
0.999999999999969			
## 2011-11-14 -6.90292267790937e-15		0	0 -7.33163077976203e-
## 2011-11-16 -6.86384282744257e-14		0	0 -3.13124481116654e-
## 2011-11-29	5	4.8	5
4.99999999999997			
## 2011-12-09	2	2.2	2
1.99999999999997			
## 2011-12-13	3	2.4	3
2.99999999999997			
## 2011-12-15	3	3.4	3
2.99999999999998			
## 2011-12-23 -7.89857068639321e-14		0	0 -3.41990279756908e-
## 2011-12-28	1.008	1	1
0.999999999999965			
## 2011-12-29	1	1	1
0.999999999999979			
## 2012-01-17	3	2.4	3
2.99999999999996			
## 2012-01-18	3	3.2	3
2.99999999999997			
## 2012-01-19	3	3.4	3
2.99999999999998			
## 2012-01-24	5	4.6	5
4.99999999999997			
## 2012-01-31	3	2.2	3
2.99999999999996			
## 2012-02-01	3	3	3
2.99999999999997			
## 2012-02-08 -6.98197055726268e-14		0	0 -3.37549387658408e-
## 2012-02-09 -7.14450720806781e-14		0	0 -2.95360912722652e-
## 2012-02-10	1	1.2	1

0.999999999999961			
## 2012-02-16	1	1.8	1
0.999999999999979			
## 2012-03-01	1	1.6	1
0.999999999999966			
## 2012-03-02	1	1.2	1
0.999999999999971			
## 2012-03-12	3	3.2	3
2.99999999999998			
## 2012-03-13	3	3	3
2.99999999999998			
## 2012-03-16	2	1.6	2
1.99999999999996			
## 2012-03-19	2	2	2
2			
## 2012-03-23	2	2.2	2
1.99999999999997			
## 2012-03-30 -7.86659626328401e-15	0		0 -3.37549387658408e-14
## 2012-04-05 -7.14273085122841e-15	0		0 -2.97581358771902e-14
## 2012-04-09 -6.95088431257318e-15	0		0 -7.99776459453713e-15
## 2012-04-10	2	1.6	2
1.99999999999997			
## 2012-04-13	4	3.2	4
3.99999999999995			
## 2012-04-17	4	3.8	4
3.99999999999998			
## 2012-04-20 -7.87903076115981e-15	0		0 -3.48651617904659e-14
## 2012-04-23	4	3.8	4
3.99999999999998			
## 2012-04-25	4	3.6	4
3.99999999999997			
## 2012-04-27	4	2.8	4
3.99999999999996			
## 2012-04-30 -6.93312074417918e-15	0		0 -7.7757199896121e-15
## 2012-05-04	1	1.2	1
0.999999999999961			
## 2012-05-25	6	4.6	6.24242424242424
5.99999999999996			
## 2012-06-05	2	2.2	2
1.99999999999998			
## 2012-06-26	3	3.2	3
2.99999999999998			
## 2012-06-27	3	3.2	3
2.99999999999997			
## 2012-06-28	3	2.6	3

2.99999999999997			
## 2012-07-19	-7.0867756107873e-15	0	0 -2.37629315442144e-14
## 2012-07-25		2 2	2
1.99999999999996			
## 2012-07-27		2 2.2	2
1.99999999999997			
## 2012-07-30		1 1.2	1
0.99999999999999			
## 2012-07-31		1 1	1
0.999999999999978			
## 2012-08-06	-6.93312074417918e-15	0	0 -7.109586174837e-15
## 2012-08-07		1 1.2	1
0.999999999999971			
## 2012-08-14		1 1.6	1
0.999999999999968			
## 2012-08-17		4 4	4
3.99999999999997			
## 2012-08-20		4 3.8	4
4			
## 2012-08-23		1 1.2	1
0.999999999999971			
## 2012-08-28	-6.98019420042328e-15	0	0 -2.79817790377899e-14
## 2012-08-29	-6.98197055726268e-15	0	0 -3.13124481116654e-14
## 2012-08-30		1 1.4	1
0.999999999999968			
## 2012-09-10	-6.93667345785798e-15	0	0 -6.66549696498694e-15
## 2012-09-13	-7.02815583508709e-15	0	0 -2.68715560131648e-14
## 2012-09-27		4 3.8	4
3.99999999999996			
## 2012-10-09		1 1.2	1
0.999999999999969			
## 2012-10-12		5 4.6	5
4.99999999999997			
## 2012-10-16		5 4.6	5
4.99999999999997			
## 2012-10-31		2 2	2
1.99999999999998			
## 2012-11-14		1 1.4	1
0.999999999999967			
## 2012-11-16	1.998	2.4	2
1.99999999999996			
## 2012-11-26		2 2.2	2
2			
## 2012-11-30	-7.94830867789642e-15	0	0 -3.41990279756908e-

14			
## 2012-12-03	-6.94733159889438e-15	0	0 -5.55527394036178e-
15			
## 2012-12-05	4	3.8	4
3.99999999999996			
## 2012-12-12	1	1.2	1
0.999999999999964			
## 2012-12-17	3	2.8	3
2.99999999999998			
## 2012-12-18	3	3.2	3
2.99999999999998			
## 2012-12-21	-7.94297960737822e-15	0	0 -3.30888049510657e-
14			
## 2012-12-26	-6.96953605938688e-15	0	0 -3.17565373215155e-
14			
## 2012-12-31	2	2.2	2
2			
## 2013-01-03	3	2.8	3
2.99999999999996			
## 2013-01-04	3	2.8	3
2.99999999999997			
## 2013-01-10	1	1.4	1
0.999999999999979			
## 2013-01-11	-7.96696042471012e-15	0	0 -3.37549387658408e-
14			
## 2013-01-14	-6.95621338309138e-15	0	0 -7.109586174837e-
15			
## 2013-01-22	2	2.6	2
1.99999999999998			
## 2013-01-29	-6.95887791835048e-15	0	0 -2.55392883836146e-
14			
## 2013-02-05	3	3	3
2.99999999999998			
## 2013-02-06	3	3.4	3
2.99999999999997			
## 2013-02-21	2	2	2
1.99999999999998			
## 2013-02-25	12.988	6.2	14.4
13			
## 2013-02-26	12.994	13.2	14.4
13			
## 2013-02-27	12.988	11.4	14.4
13			
## 2013-03-04	12.994	12	14.4
13			
## 2013-03-07	12.994	11.6	14.4
13			
## 2013-03-08	12.988	11.6	14.4
12.99999999999999			
## 2013-03-11	12.994	12	14.4

13			
## 2013-03-12	12.994	13.2	14.4
13			
## 2013-03-18	3	3.2	3
3			
## 2013-04-09	2	2	2
1.999999999999997			
## 2013-04-10	2	2.2	2
1.999999999999998			
## 2013-04-16	2	2.4	2
1.999999999999998			
## 2013-04-17	2	2	2
1.999999999999997			
## 2013-04-19 -7.97406585206772e-15	0		0 -3.50872063953909e-
14			
## 2013-04-23	2	2.4	2
1.999999999999998			
## 2013-04-24	2	1.8	2
1.999999999999997			
## 2013-04-30	3	3.2	3
2.999999999999997			
## 2013-05-09	3	3	3
2.999999999999998			
## 2013-05-15	3	3.4	3
2.999999999999997			
## 2013-05-20 -6.98374691410209e-15	0		0 -4.88914012558669e-
15			
## 2013-05-24	2	1.4	2
1.999999999999997			
## 2013-05-30 -7.18891612905281e-15	0		0 -2.79817790377899e-
14			
## 2013-06-04 -6.99262869829909e-15	0		0 -2.90920020624151e-
14			
## 2013-06-10	2	2	2
2			
## 2013-06-12	1	1	1
0.9999999999999963			
## 2013-06-14	2	1.8	2
1.999999999999996			
## 2013-06-18	2	1	2
1.999999999999998			
## 2013-06-20 -7.15516534910421e-15	0		0 -2.73156452230149e-
14			
## 2013-06-21 -7.94653232105702e-15	0		0 -3.28667603461406e-
14			
## 2013-06-25	1	1.4	1
0.9999999999999979			
## 2013-07-02	4	2.6	4
3.999999999999996			
## 2013-07-10	5	3.6	5

4.99999999999995			
## 2013-07-12	5	4.6	5
4.99999999999997			
## 2013-07-16	5	4.2	5
4.99999999999997			
## 2013-07-19 -7.98028310100562e-15	0		0 -3.37549387658408e-14
## 2013-07-23	4	2.4	4
3.99999999999996			
## 2013-07-30	2	2	2
1.99999999999997			
## 2013-08-07	1	1	1
0.999999999999964			
## 2013-08-08	1	1.2	1
0.99999999999998			
## 2013-08-21	3	3	3
2.99999999999998			
## 2013-08-26	1	1	1
1			
## 2013-08-29	5	4.6	5
4.99999999999997			
## 2013-09-10	2	2.2	2
1.99999999999998			
## 2013-09-12	3	2.4	3
2.99999999999996			
## 2013-09-17	3	3.2	3
2.99999999999997			
## 2013-09-23	3	2.8	3
2.99999999999999			
## 2013-10-03	4	4.4	4
3.99999999999997			
## 2013-10-15	5	4	5
4.99999999999996			
## 2013-10-22	5	3.4	5
4.99999999999997			
## 2013-10-23	1	1.4	1
0.999999999999967			
## 2013-10-25 -7.93942689369942e-15	0		0 -3.22006265313655e-14
## 2013-10-30	2	1.8	2
1.99999999999997			
## 2013-10-31	2	2	2
1.99999999999997			
## 2013-11-08	3	2.8	3
2.99999999999997			
## 2013-11-14	3	3.4	3
2.99999999999998			
## 2013-11-20 -7.03614944086439e-15	0		0 -3.19785819264405e-14
## 2013-11-22	0.998	1.2	1

0.99999999999973			
## 2013-11-26	1	1.2	1
0.99999999999997			
## 2013-11-29 -7.99360577730113e-15	0		0 -3.19785819264405e-14
## 2013-12-10	5	3.8	5
4.99999999999997			
## 2013-12-19	1	1.4	1
0.999999999999969			
## 2013-12-23	1	1.2	1
0.999999999999991			
## 2014-01-06	4	3	4
3.99999999999999			
## 2014-01-17	5	4.8	5
4.99999999999997			
## 2014-01-21	5	4.8	5
4.99999999999997			
## 2014-01-22	5	4.8	5
4.99999999999997			
## 2014-01-23	5	3.6	5
4.99999999999997			
## 2014-01-27	3	3	3
2.99999999999999			
## 2014-01-30	3	2.6	3
2.99999999999997			
## 2014-02-03	2	2.6	2
2			
## 2014-02-11 -7.02193858614919e-15	0		0 -2.79817790377899e-14
## 2014-02-21	5	5	5
4.99999999999997			
## 2014-02-25	5	4.4	5
4.99999999999997			
## 2014-02-26 -6.98641144936118e-15	0		0 -3.28667603461406e-14
## 2014-03-03	4	2.8	4
3.99999999999998			
## 2014-03-06	4	4	4
3.99999999999997			
## 2014-03-07	3.958	3.2	4
3.99999999999997			
## 2014-03-12 -7.04325486822199e-15	0		0 -3.06463142968903e-14
## 2014-03-18 -7.03082037034619e-15	0		0 -2.79817790377899e-14
## 2014-03-19 -7.05124847399929e-15	0		0 -3.24226711362906e-14
## 2014-03-24	2	2.6	2
2			
## 2014-03-25	1.998	1.4	2

1.99999999999997			
## 2014-03-28	2	1.4	2
1.99999999999996			
## 2014-03-31	2	2.8	2
2			
## 2014-04-01	1.998	1.4	2
1.99999999999997			
## 2014-04-04	-8.02291566515123e-15	0	0 -3.26447157412156e-14
## 2014-04-07	2	1.6	2
1.99999999999999			
## 2014-04-16	2	1.4	2
1.99999999999997			
## 2014-04-22	4	3.6	4
3.99999999999997			
## 2014-04-28	1	1.2	1
0.999999999999992			
## 2014-05-01	8	6.8	8.65116279069767
7.99999999999996			
## 2014-05-02	8	8.4	8.65116279069767
7.99999999999996			
## 2014-05-06	8	7	8.65116279069767
7.99999999999997			
## 2014-05-15	2	1.6	2
1.99999999999997			
## 2014-05-16	2	2.4	2
1.99999999999997			
## 2014-05-19	2	1.6	2
2			
## 2014-05-20	10	5.8	8.65116279069767
9.99999999999995			
## 2014-05-22	10	8	8.65116279069767
9.99999999999996			
## 2014-06-02	10	7	8.65116279069767
9.99999999999998			
## 2014-06-03	10	7.4	8.65116279069767
9.99999999999996			
## 2014-06-09	1	1.2	1
0.999999999999991			
## 2014-06-12	6	4.4	6.24242424242424
5.99999999999996			
## 2014-06-13	5.988	6.2	6.24242424242424
5.99999999999997			
## 2014-06-17	6	5.6	6.24242424242424
5.99999999999997			
## 2014-06-26	2	1.6	2
1.99999999999998			
## 2014-06-27	-7.97140131680862e-15	0	0 -3.30888049510657e-14
## 2014-06-30	1	1.2	1

0.999999999999993			
## 2014-07-16 -6.98197055726268e-15	0		0 -3.24226711362906e-14
## 2014-07-17	1	1	1
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## 2014-07-21 -6.98729962778089e-15	0		0 -5.33322933543675e-15
## 2014-07-22	1.01	1.2	1
0.999999999999968			
## 2014-08-04 -6.98374691410209e-15	0		0 -2.44664947141135e-15
## 2014-08-08	2	2.4	2
1.999999999999998			
## 2014-08-11	2	1.6	2
2			
## 2014-08-21	1	1.4	1
0.999999999999972			
## 2014-08-22	1	1.2	1
0.999999999999973			
## 2014-08-27	1	1	1
0.999999999999964			
## 2014-08-29	1	1	1
0.999999999999964			
## 2014-09-18	1.006	1	1
0.999999999999978			
## 2014-09-24	1	1	1
0.999999999999974			
## 2014-09-25	1	1.4	1
0.999999999999971			
## 2014-09-26	1	1	1
0.999999999999973			
## 2014-09-29	1	1	1
0.999999999999994			
## 2014-10-01 -6.98019420042328e-15	0		0 -2.93140466673401e-14
## 2014-10-02	1	1	1
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## 2014-10-07 -6.96243063202928e-15	0		0 -2.39849761491394e-14
## 2014-10-10 -7.94475596421762e-15	0		0 -2.8203823642715e-14
## 2014-10-13	5.97	3.8	6.24242424242424
5.999999999999999			
## 2014-10-30	4	3.4	4
3.999999999999998			
## 2014-11-03	4	3.8	4
4			
## 2014-11-13	1	1	1
0.999999999999977			
## 2014-11-17	1	1.2	1

0.99999999999999			
## 2014-11-19	1	1	1
0.999999999999966			
## 2014-11-28	3	2.8	3
2.99999999999996			
## 2014-12-02	3	2.2	3
2.99999999999996			
## 2014-12-09	2	2.2	2
1.99999999999997			
## 2014-12-11	2	2	2
1.99999999999997			
## 2014-12-15	1	1	1
0.999999999999999			
## 2014-12-17	4	4	4
3.99999999999997			
## 2014-12-18	4	3.8	4
3.99999999999997			
## 2015-01-02	6	5.2 6.24242424242424	
5.99999999999996			
## 2015-01-06 -6.98019420042328e-14	0		0 -2.77597344328649e-14
## 2015-01-07	1	1	1
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## 2015-01-08	1	1.2	1
0.999999999999977			
## 2015-01-13	1	1.2	1
0.999999999999977			
## 2015-01-15	5	4.6	5
4.99999999999996			
## 2015-01-20	5	4.8	5
4.99999999999996			
## 2015-01-23	5	4.2	5
4.99999999999996			
## 2015-01-29	1	1.2	1
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## 2015-01-30 -7.99893484781933e-14	0		0 -2.62054221983897e-14
## 2015-02-02 -6.99085234145969e-15	0		0 -6.44345236006191e-15
## 2015-02-03	1	1.4	1
0.999999999999971			
## 2015-02-05 -7.19513337799072e-14	0		0 -2.77597344328649e-14
## 2015-02-11	2	2	2
1.99999999999996			
## 2015-02-18	5	5.6	5
4.99999999999997			
## 2015-02-23	5	5	5
5			
## 2015-02-27	3	2.6	3

2.99999999999996			
## 2015-03-03	3	3	3
2.99999999999998			
## 2015-03-06 -8.00159938307843e-15	0		0 -3.33108495559907e-14
## 2015-03-09 -6.98197055726268e-15	0		0 -6.22140775513688e-15
## 2015-03-10	8	5.4	8.65116279069767
7.99999999999995			
## 2015-03-11	8	7.4	8.65116279069767
7.99999999999996			
## 2015-03-12	8	7.2	8.65116279069767
7.99999999999996			
## 2015-03-16	8	6.6	8.65116279069767
7.99999999999999			
## 2015-03-20	8	6	8.65116279069767
7.99999999999995			
## 2015-03-23 -6.94733159889438e-15	0		0 -2.89073868126141e-15
## 2015-03-30	1.994	1.4	2
2			
## 2015-04-06 -6.98907598462029e-15	0		0 -2.44664947141135e-15
## 2015-04-20	5	5.6	5
4.99999999999999			
## 2015-04-23	5	5.2	5
4.99999999999997			
## 2015-04-24	5	4	5
4.99999999999996			
## 2015-05-01	1	1	1
0.99999999999997			
## 2015-05-11	1	1.2	1
1			
## 2015-05-14	1	1.2	1
0.999999999999979			
## 2015-05-27	1	1	1
0.999999999999975			
## 2015-06-01	1.986	1.8	2
2			
## 2015-06-02 -6.98197055726268e-15	0		0 -2.64274668033147e-14
## 2015-06-10	2	1.6	2
1.99999999999997			
## 2015-06-16	4	3.6	4
3.99999999999996			
## 2015-06-22	3.98	3.2	4
3.99999999999999			
## 2015-06-23 -6.98463509252178e-15	0		0 -2.62054221983897e-14
## 2015-06-24 -7.03792579770379e-15	0		0 -2.97581358771902e-

14			
## 2015-06-25	-7.1107564281192e-15	0	0 -2.70936006180898e-
14			
## 2015-06-29	1.018	1.6	1
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## 2015-07-02	3	3.4	3
2.999999999999998			
## 2015-07-08	3	3.4	3
2.999999999999996			
## 2015-07-10	3	3.2	3
2.999999999999997			
## 2015-07-14	-7.01128044511279e-15	0	0 -2.75376898279399e-
14			
## 2015-07-24	2	1.8	2
1.999999999999997			
## 2015-07-28	1.998	1.2	2
1.999999999999997			
## 2015-07-31	3	2.6	3
2.999999999999996			
## 2015-08-07	2	2	2
1.999999999999996			
## 2015-08-10	2	2.6	2
2			
## 2015-08-17	2.98	2.6	3
3			
## 2015-08-19	-6.98197055726268e-15	0	0 -3.02022250870403e-
14			
## 2015-08-24	-6.95443702625198e-15	0	0 3.10446565171444e-
15			
## 2015-08-28	3	2.2	3
2.999999999999996			
## 2015-09-02	3	2.8	3
2.999999999999996			
## 2015-09-09	8	8.4	8.65116279069767
7.999999999999996			
## 2015-09-15	8	7.2	8.65116279069767
7.999999999999997			
## 2015-09-18	-8.03357380618763e-15	0	0 -3.24226711362906e-
14			
## 2015-09-22	1	1.2	1
0.9999999999999975			
## 2015-09-23	1	1.2	1
0.9999999999999976			
## 2015-09-24	-7.22089055216202e-15	0	0 -2.48731545688395e-
14			
## 2015-10-08	4	3.6	4
3.999999999999998			
## 2015-10-12	4	4	4
3.999999999999999			
## 2015-10-19	2	2.2	2

2			
## 2015-10-28	-7.05124847399929e-15	0	0 -3.08683589018154e-
14			
## 2015-10-29		3 1.8	3
2.99999999999996			
## 2015-11-06	-7.03082037034619e-15	0	0 -2.57613329885396e-
14			
## 2015-11-17	-6.19060358530987e-15	0	0 -1.93220394457137e-
14			
## 2015-11-18		1.036 0	1
0.999999999999973			
## 2015-11-20		1 1	1
0.999999999999963			
## 2015-11-23		1 1.2	1
1			
## 2015-11-24		2 2	2
1.99999999999997			
## 2015-11-27		2 1.2	2
1.99999999999997			
## 2015-12-07		2 2.2	2
2			
## 2015-12-11	-7.94120325053882e-15	0	0 -2.842586824764e-
14			
## 2015-12-15		2 2	2
1.99999999999998			
## 2015-12-16		2 2.2	2
1.99999999999997			
## 2015-12-17	-7.1196382123162e-15	0	0 -2.64274668033147e-
14			
## 2015-12-21		4 3.4	4
3.99999999999999			
## 2015-12-24		4 2.6	4
3.99999999999997			
## 2015-12-30	-7.05124847399929e-15	0	0 -3.02022250870403e-
14			
## 2016-01-04	-6.99440505513849e-15	0	0 -1.11438184186116e-
15			
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0.99999999999997			
## 2016-01-06		1 1	1
0.999999999999974			
## 2016-01-11		2 2.4	2
2			
## 2016-01-12		2 2.2	2
1.99999999999998			
## 2016-01-13		1 1	1
0.999999999999971			
## 2016-01-14		1 1	1
0.99999999999998			
## 2016-01-15		4 3	4

3.99999999999996			
## 2016-01-25	2	2	2
1.99999999999999			
## 2016-01-29	2	2	2
1.99999999999997			
## 2016-02-04	2	1.8	2
1.99999999999998			
## 2016-02-10	2	1.8	2
1.99999999999997			
## 2016-02-12	6	5.4 6.24242424242424	
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## 2016-02-18	6	5.6 6.24242424242424	
5.99999999999997			
## 2016-02-29	2	2.6	2
2.00000000000001			
## 2016-03-08	1	1	1
0.999999999999974			
## 2016-03-16	1	1	1
0.999999999999977			
## 2016-03-28	3	2.8	3
3			
## 2016-04-11	5	4.8	5
5			
## 2016-04-14	5	3.2	5
4.99999999999997			
## 2016-05-04 -6.98019420042328e-15	0		0 -2.64274668033147e-14
14			
## 2016-05-19 -7.22444326584082e-15	0		0 -2.44290653589894e-14
14			
## 2016-05-24	2	2.2	2
1.99999999999998			
## 2016-05-31	3	3.2	3
2.99999999999998			
## 2016-06-09	4	3.8	4
3.99999999999997			
## 2016-06-14	1	1	1
0.999999999999975			
## 2016-06-16	3	2.4	3
2.99999999999997			
## 2016-06-17	3	3	3
2.99999999999998			
## 2016-06-20	3	3.2	3
3			
## 2016-06-22	1	1	1
0.999999999999968			
## 2016-06-29	4	4	4
3.99999999999997			
## 2016-07-06	4	3.4	4
3.99999999999996			
## 2016-07-07	4	3.8	4

3.99999999999998			
## 2016-07-08	4	3.4	4
3.99999999999997			
## 2016-07-11	4	3.4	4
4			
## 2016-07-20	-7.04680758190079e-15	0	0 -3.04242696919653e-14
## 2016-07-21	1	1.2	1
0.999999999999973			
## 2016-07-28	1	1	1
0.999999999999983			
## 2016-08-02	-6.90825174842757e-15	0	0 -1.90999948407887e-14
## 2016-08-05	2	1.4	2
1.999999999999997			
## 2016-08-09	1	1	1
0.999999999999983			
## 2016-08-12	2	1.6	2
1.999999999999996			
## 2016-08-15	2	2.4	2
2			
## 2016-08-18	1	1	1
0.999999999999982			
## 2016-08-24	3	3	3
2.999999999999998			
## 2016-08-26	-7.96518406787072e-15	0	0 -3.04242696919653e-14
## 2016-08-31	-6.98374691410209e-15	0	0 -2.8203823642715e-14
## 2016-09-01	4	3	4
3.999999999999996			
## 2016-09-14	1	1.4	1
0.999999999999969			
## 2016-09-23	2	1	2
1.999999999999997			
## 2016-10-06	2	1.8	2
1.999999999999998			
## 2016-10-14	-7.96340771103132e-15	0	0 -3.10904035067404e-14
## 2016-10-24	-6.97397695148538e-15	0	0 -3.33482789111147e-15
## 2016-10-25	-6.98374691410209e-15	0	0 -2.55392883836146e-14
## 2016-10-27	3	3.4	3
2.999999999999998			
## 2016-11-01	-7.01927405089009e-15	0	0 -2.48731545688395e-14
## 2016-11-02	-7.05036029557959e-15	0	0 -3.13124481116654e-14
## 2016-11-03	4	3.6	4

3.99999999999996			
## 2016-11-08	4	3.8	4
3.99999999999998			
## 2016-11-11	3	3.2	3
2.99999999999997			
## 2016-11-16	2	1.6	2
1.99999999999996			
## 2016-11-18	2	1.2	2
1.99999999999997			
## 2016-11-23	2	2	2
1.99999999999998			
## 2016-11-25	2	1.2	2
1.99999999999997			
## 2016-11-29	1	1.2	1
0.99999999999998			
## 2016-12-01	1	1	1
0.999999999999971			
## 2016-12-07	2	1.4	2
1.99999999999997			
## 2016-12-09	1	1	1
0.999999999999971			
## 2016-12-12	3	2.8	3
2.99999999999999			
## 2016-12-30 -7.99538213414053e-15		0	0 -3.10904035067404e-14
14			
## 2017-01-05	4	2.6	4
3.99999999999996			
## 2017-01-12 -7.19424519957101e-15		0	0 -2.62054221983897e-14
14			
## 2017-01-18	1	1.2	1
0.999999999999975			
## 2017-01-19	1	1	1
0.999999999999971			
## 2017-01-25	3	3	3
2.99999999999998			
## 2017-01-26	2.992	2.2	3
2.99999999999997			
## 2017-02-08	3	2.6	3
2.99999999999996			
## 2017-02-14	1	1.2	1
0.999999999999972			
## 2017-02-24	4	4	4
3.99999999999997			
## 2017-02-27	4	3.2	4
4			
## 2017-03-06 -6.97752966516418e-15		0	0 -1.11438184186116e-15
15			
## 2017-03-08	1	1.2	1
0.999999999999978			
## 2017-03-13 -6.98285873568238e-15		0	0 -4.48248027086064e-

16			
## 2017-03-15	2	2	2
1.999999999999998			
## 2017-03-20 -6.97397695148538e-15	0		0 -4.44505091573663e-15
## 2017-03-22	4	2.6	4
3.999999999999996			
## 2017-03-27	4	3.6	4
4			
## 2017-03-28	4	3.2	4
3.999999999999997			
## 2017-03-30	1	1	1
0.9999999999999981			
## 2017-04-03	1	1	1
1			
## 2017-04-05	6	6.2 6.24242424242424	
5.999999999999997			
## 2017-04-06	6	6 6.24242424242424	
5.999999999999997			
## 2017-04-10	6	6 6.24242424242424	
5.999999999999999			
## 2017-04-25	2	1.8	2
1.999999999999998			
## 2017-04-28 -7.99449395572083e-15	0		0 -2.77597344328649e-14
## 2017-05-08	4	3.2	4
4			
## 2017-05-09	4	3.4	4
3.999999999999997			
## 2017-05-11 -7.1045391791813e-15	0		0 -2.50951991737645e-14
## 2017-05-19	6	6.2 6.24242424242424	
5.999999999999997			
## 2017-05-24	6	6 6.24242424242424	
5.999999999999997			
## 2017-05-25	6	5.2 6.24242424242424	
5.999999999999997			
## 2017-06-01	4	3.4	4
3.999999999999998			
## 2017-06-09 -7.91544607636752e-15	0		0 -2.70936006180898e-14
## 2017-06-12 -6.94644342047468e-15	0		0 1.06863485226514e-16
## 2017-06-13 -6.88693546635477e-15	0		0 -2.44290653589894e-14
## 2017-06-14 -6.94200252837618e-15	0		0 -2.88699574574901e-14
## 2017-06-16	1.002	0.4	1
0.9999999999999967			
## 2017-06-20	2	1.6	2

1.99999999999997			
## 2017-06-22	2	2.4	2
1.99999999999998			
## 2017-06-29	7	6.8	6.24242424242424
6.99999999999997			
## 2017-07-05	7	7.2	6.24242424242424
6.99999999999996			
## 2017-07-06	7	6.8	6.24242424242424
6.99999999999997			
## 2017-07-07	7	5.8	6.24242424242424
6.99999999999996			
## 2017-07-12	3	3	3
2.99999999999997			
## 2017-07-17	0.00199999999999322	0	0 -6.70292632011095e-16
## 2017-07-18	-6.71640520977235e-15	0	0 -2.17645300998891e-14
## 2017-07-25	1.012	0.8	1
0.999999999999975			
## 2017-08-01	1	1.2	1
0.999999999999981			
## 2017-08-15	-6.98019420042328e-15	0	0 -2.55392883836146e-14
## 2017-08-16	-7.00328683933549e-15	0	0 -3.04242696919653e-14
## 2017-08-17	-7.15605352752391e-15	0	0 -1.93220394457137e-14
## 2017-08-18	1	1.2	1
0.999999999999966			
## 2017-08-24	1	1	1
0.999999999999973			
## 2017-08-31	2	2.2	2
1.99999999999998			
## 2017-09-01	2	1	2
1.99999999999997			
## 2017-09-07	-7.13473724545111e-15	0	0 -2.55392883836146e-14
## 2017-09-12	3	3	3
2.99999999999998			
## 2017-09-27	1	1	1
0.999999999999967			
## 2017-09-28	1	1.2	1
0.99999999999998			
## 2017-10-04	3	3.2	3
2.99999999999997			
## 2017-10-06	1	1	1
0.999999999999974			
## 2017-10-11	-6.91979806788368e-15	0	0 -3.17565373215155e-14
## 2017-10-13	1	1.2	1

0.999999999999976			
## 2017-10-24	1.006	1.2	1
0.999999999999979			
## 2017-10-26	-7.1151973202177e-15	0	0 -1.93220394457137e-14
## 2017-11-17	3	2.6	3
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## 2017-11-24	-7.95008503473582e-15	0	0 -3.33108495559907e-14
## 2017-11-28	3	3	3
2.99999999999998			
## 2017-11-30	3	2.4	3
2.99999999999997			
## 2017-12-11	4	3.4	4
3.99999999999999			
## 2017-12-15	3	3.6	3
2.99999999999997			
## 2017-12-22	1	1.2	1
0.999999999999964			
## 2017-12-27	1	1.2	1
0.999999999999967			
## 2018-01-04	1	1.4	1
0.99999999999998			
## 2018-01-11	3	3.2	3
2.99999999999997			
## 2018-01-22	2	2.6	2
2			
## 2018-01-23	2	1.2	2
1.99999999999998			
## 2018-01-24	-6.87006007638047e-15	0	0 -2.22086193097391e-14
## 2018-01-30	1	1.4	1
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## 2018-02-01	-7.17648163117701e-15	0	0 -2.66495114082398e-14
## 2018-02-08	-7.04858393874019e-15	0	0 -1.93220394457137e-14
## 2018-02-09	4	3.2	4
3.99999999999996			
## 2018-02-14	4	3.4	4
3.99999999999997			
## 2018-02-15	4	2.4	4
3.99999999999997			
## 2018-02-21	5	4.4	5
4.99999999999997			
## 2018-02-22	5	4	5
4.99999999999998			
## 2018-03-07	6	5.2	6.24242424242424
5.99999999999997			
## 2018-03-12	6	3.6	6.24242424242424

5.999999999999999			
## 2018-03-13 -6.92423895998218e-15	0		0 -2.70936006180898e-14
## 2018-03-20	1	1.2	1
0.999999999999979			
## 2018-03-26	1.004	1	1
1			
## 2018-03-27 -6.87538914689867e-15	0		0 -2.44290653589894e-14
## 2018-03-29	1.004	1.6	1
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## 2018-04-05	3	2.2	3
2.99999999999998			
## 2018-04-18	1	1.6	1
0.999999999999974			
## 2018-04-20 -7.92610421740392e-15	0		0 -2.99801804821152e-14
## 2018-04-23 -6.95177249099288e-15	0		0 -2.22460486648631e-15
## 2018-04-30	1	1.2	1
0.999999999999994			
## 2018-05-02 -6.94821977731408e-15	0		0 -2.75376898279399e-14
## 2018-05-03	1	1.2	1
0.999999999999997			
## 2018-05-07	1	1.2	1
0.999999999999994			
## 2018-05-08	1	1.2	1
0.999999999999981			
## 2018-05-11	2	1.2	2
1.999999999999997			
## 2018-05-16	2	2.2	2
1.999999999999997			
## 2018-05-17 -7.12763181809351e-15	0		0 -2.55392883836146e-14
## 2018-05-23	2	2	2
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## 2018-06-05	1	1	1
0.999999999999973			
## 2018-06-06	1	1.2	1
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## 2018-06-19	1	1	1
0.999999999999972			
## 2018-06-21 -6.96775970254748e-15	0		0 -2.1542485494964e-14
## 2018-06-29	1.008	1	1
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## 2018-07-05	3	2.2	3
2.99999999999998			
## 2018-07-06	3	2.8	3

2.99999999999998			
## 2018-07-17	5	4.8	5
4.99999999999998			
## 2018-07-26	2	2	2
1.99999999999997			
## 2018-07-27 -7.96873678154952e-14	0		0 -3.13124481116654e-
14			
## 2018-08-01 -6.94022617153678e-14	0		0 -2.64274668033147e-
14			
## 2018-08-02	1.014	1.2	1
0.999999999999971			
## 2018-08-03	1	1	1
0.999999999999975			
## 2018-08-09 -7.23332505003782e-14	0		0 -2.50951991737645e-
14			
## 2018-08-27	2	2.4	2
2			
## 2018-08-30	2	2	2
1.99999999999997			
## 2018-09-04	2	1.6	2
1.99999999999998			
## 2018-09-07	2	1.8	2
1.99999999999996			
## 2018-09-20	7	6.4 6.24242424242424	
6.99999999999997			
## 2018-10-01 -6.99529323355819e-16	0		0 7.72997300001608e-
16			
## 2018-10-02	1	1.2	1
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## 2018-10-04 -6.93933799311708e-14	0		0 -2.02102178654138e-
14			
## 2018-10-18 -7.0858874323676e-14	0		0 -2.08763516801889e-
14			
## 2018-10-23	2	1.6	2
1.99999999999998			
## 2018-11-07	1	1.2	1
0.999999999999973			
## 2018-11-13	3	3	3
2.99999999999998			
## 2018-11-14	3	3.2	3
2.99999999999997			
## 2018-11-15 -7.19690973483011e-14	0		0 -2.48731545688395e-
14			
## 2018-11-19 -6.98641144936118e-16	0		0 -5.5927032954858e-
16			
## 2018-12-03 -6.96864788096718e-15	0		0 -2.66869407633638e-
15			
## 2018-12-10	3	3	3
3			
## 2018-12-13 -7.15250081384511e-15	0		0 -1.90999948407887e-

14			
## 2018-12-14	-8.03268562776793e-15	0	0 -3.10904035067404e-
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## 2018-12-24		1 1.4	1
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## 2018-12-27	-7.0947692165646e-15	0	0 -2.48731545688395e-
14			
## 2019-01-04		2 2.6	2
1.999999999999997			
## 2019-01-10	-7.16493531172091e-15	0	0 -2.1098396285114e-
14			
## 2019-01-25		3 3.6	3
2.999999999999997			
## 2019-01-31		3 3.4	3
2.999999999999997			
## 2019-02-05		3 2.4	3
2.999999999999998			
## 2019-02-22		3 3.2	3
2.999999999999998			
## 2019-02-25		3 2.8	3
3			
## 2019-03-01	-7.8257400559778e-15	0	0 -2.37629315442144e-
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## 2019-03-04	-6.89048818003357e-15	0	0 3.77059946648953e-
15			
## 2019-03-06	-6.78657130492866e-15	0	0 -2.42070207540644e-
14			
## 2019-03-07	-6.99351687671879e-15	0	0 -1.97661286555638e-
14			
## 2019-03-13		2 2	2
1.999999999999998			
## 2019-03-14		2 1.8	2
1.999999999999998			
## 2019-03-20		1 1.2	1
0.9999999999999969			
## 2019-03-21		1 1.6	1
0.9999999999999981			
## 2019-03-22	-8.01136934569513e-15	0	0 -2.88699574574901e-
14			
## 2019-03-26		1 1.4	1
0.9999999999999971			
## 2019-03-27		1 1.2	1
0.9999999999999977			
## 2019-03-29		6 5.2 6.24242424242424	
5.999999999999997			
## 2019-04-10		2 2.2	2
1.999999999999998			
## 2019-04-15		2 1.4	2
1.999999999999999			
## 2019-04-22		2 1.4	2

1.999999999999999			
## 2019-04-24	2	2.2	2
1.999999999999998			
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2			
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## 2019-05-10	2	1.4	2
1.999999999999998			
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## 2019-05-22 -6.77857769915136e-15	0		0 -2.06543070752639e-
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## 2019-06-10 -6.96331881044898e-15	0		0 -3.11278328618644e-
15			
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## 2019-06-19	1	1.2	1
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## 2019-06-21	1	1.6	1
0.9999999999999967			
## 2019-06-26	4	4.2	4
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## 2019-07-10	3	3	3
2.999999999999998			
## 2019-07-11	3	3	3
2.999999999999998			
## 2019-07-19 -7.93676235844032e-15	0		0 -2.95360912722652e-
14			
## 2019-07-23	2	2.4	2
1.999999999999998			
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15			
## 2019-08-06	2.002	0.6	2
1.999999999999997			
## 2019-08-07	2	2	2
1.999999999999998			
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14			
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## 2019-09-06	9.006	7.2 8.65116279069767	
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14			
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## 2019-09-30	-6.93578527943828e-15	0	0 -1.11438184186116e-
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## 2019-10-07	6	3	6.24242424242424
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## 2019-10-08	6	4.8	6.24242424242424
5.99999999999997			
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5.99999999999997			
## 2019-10-10	6	4.8	6.24242424242424
5.99999999999998			
## 2019-10-21	2	1.8	2
2			
## 2019-10-22	4	2.8	4
3.99999999999996			
## 2019-10-25	4	4	4
3.99999999999997			
## 2019-10-28	4	3.2	4
4			
## 2019-10-31	3	2.4	3
2.99999999999997			
## 2019-11-01	3	3	3
2.99999999999998			
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14			
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14			
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## 2019-11-15	2	2.6	2
1.99999999999997			
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0.999999999999981			
## 2019-12-02	-6.96687152412778e-15	0	0 -6.70292632011095e-
16			
## 2019-12-05	1	2	1
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## 2019-12-09	-6.96154245360958e-15	0	0 -2.66869407633638e-
15			
## 2019-12-10	-6.90025814265027e-15	0	0 -2.42070207540644e-
14			
## 2019-12-12	1	1.4	1
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## 2019-12-13	2	2	2

1.99999999999996			
## 2019-12-16	2	2.6	2
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## 2019-12-18	3	2	3
2.99999999999996			
## 2019-12-24	1	1.2	1
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## 2019-12-26	1	1.6	1
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## 2020-01-13	5	5	5
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1.99999999999998			
## 2020-01-23	2	1.8	2
1.99999999999998			
## 2020-01-27	1	1	1
0.999999999999999			
## 2020-02-07	4	3.8	4
3.99999999999997			
## 2020-02-13 0.00199999999999293		0	0 -2.37629315442144e-
14			
## 2020-02-14 0.00199999999999205		0	0 -2.75376898279399e-
14			
## 2020-02-18 -6.88338275267597e-14		0	0 -2.28747531245142e-
## 2020-02-21 -7.76978481553669e-14		0	0 -2.42070207540644e-
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15			
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0.01			
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## 2005-09-28	0		
## 2005-10-07	1		
## 2005-10-10	1		
## 2005-10-14	1		

## 2005-10-19	0
## 2005-10-21	2
## 2005-10-24	2
## 2005-10-28	15
## 2005-11-14	15
## 2005-11-16	1
## 2005-11-22	2
## 2005-11-23	2
## 2005-12-06	2
## 2005-12-12	0
## 2005-12-13	8
## 2005-12-14	8
## 2005-12-16	8
## 2005-12-23	8
## 2005-12-27	0
## 2005-12-29	0
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## 2006-01-06	0
## 2006-01-09	0
## 2006-01-19	0
## 2006-01-23	2
## 2006-01-24	2
## 2006-01-26	0
## 2006-01-27	4
## 2006-02-01	4
## 2006-02-03	0
## 2006-02-07	2
## 2006-02-10	3
## 2006-02-15	3
## 2006-03-03	0
## 2006-03-09	1
## 2006-03-20	7
## 2006-03-24	1
## 2006-03-28	1
## 2006-03-29	1
## 2006-03-30	1
## 2006-04-10	0
## 2006-04-11	0
## 2006-04-12	1
## 2006-04-17	2
## 2006-04-18	2
## 2006-04-20	0
## 2006-04-27	4
## 2006-05-02	5
## 2006-05-05	5
## 2006-05-12	1
## 2006-05-25	2
## 2006-05-31	1
## 2006-06-02	0
## 2006-06-05	4

## 2006-06-06	4
## 2006-06-08	4
## 2006-06-12	0
## 2006-06-19	5
## 2006-06-28	5
## 2006-06-30	5
## 2006-07-12	0
## 2006-07-13	0
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## 2006-07-24	3
## 2006-07-26	3
## 2006-07-27	1
## 2006-07-28	1
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## 2006-08-04	0
## 2006-08-09	0
## 2006-08-10	0
## 2006-08-21	1
## 2006-08-22	1
## 2006-08-25	3
## 2006-08-31	0
## 2006-09-08	2
## 2006-09-15	0
## 2006-09-18	2
## 2006-09-20	2
## 2006-09-22	3
## 2006-09-25	3
## 2006-09-26	3
## 2006-10-02	3
## 2006-10-12	1
## 2006-10-16	0
## 2006-10-17	5
## 2006-10-18	5
## 2006-10-27	1
## 2006-10-30	1
## 2006-11-06	2
## 2006-11-13	2
## 2006-11-17	3
## 2006-11-20	3
## 2006-11-27	0
## 2006-12-08	2
## 2006-12-14	0
## 2006-12-15	0
## 2006-12-27	2
## 2007-01-04	2
## 2007-01-08	0
## 2007-01-12	1
## 2007-01-16	1
## 2007-01-17	0
## 2007-01-22	0

## 2007-01-24	2
## 2007-01-31	2
## 2007-02-01	2
## 2007-02-05	1
## 2007-02-06	0
## 2007-02-08	1
## 2007-02-13	2
## 2007-02-20	0
## 2007-02-23	0
## 2007-03-01	0
## 2007-03-14	1
## 2007-03-20	3
## 2007-03-22	0
## 2007-03-23	0
## 2007-03-27	0
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## 2007-05-08	0
## 2007-05-09	0
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## 2007-05-23	3
## 2007-05-30	2
## 2007-06-05	0
## 2007-06-07	1
## 2007-06-12	0
## 2007-06-14	1
## 2007-06-15	0
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## 2007-07-06	5
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## 2007-07-13	2
## 2007-07-31	0
## 2007-08-06	2
## 2007-08-09	0
## 2007-08-13	1
## 2007-08-14	0
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## 2007-08-22	3
## 2007-08-23	1
## 2007-08-29	4
## 2007-09-04	4

## 2007-09-06	0
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## 2007-09-13	2
## 2007-09-17	2
## 2007-09-20	0
## 2007-09-27	0
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## 2007-10-09	7
## 2007-10-12	1
## 2007-10-15	2
## 2007-10-23	3
## 2007-10-24	3
## 2007-10-26	0
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## 2007-11-07	0
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## 2007-11-15	0
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## 2007-11-28	1
## 2007-11-30	1
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## 2007-12-14	0
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## 2007-12-21	1
## 2007-12-26	0
## 2007-12-28	0
## 2007-12-31	0
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## 2008-01-24	0
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## 2008-02-11	0
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## 2008-03-10	0
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## 2008-04-07	4
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## 2008-04-10	1
## 2008-04-14	0
## 2008-04-30	1
## 2008-05-01	1
## 2008-05-06	0

## 2008-05-07	0
## 2008-05-12	0
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## 2008-05-22	0
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## 2008-06-05	3
## 2008-06-12	3
## 2008-06-13	3
## 2008-06-17	3
## 2008-06-18	1
## 2008-06-23	0
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## 2008-07-01	0
## 2008-07-03	3
## 2008-07-16	3
## 2008-07-21	2
## 2008-07-31	6
## 2008-08-07	4
## 2008-08-08	4
## 2008-08-11	4
## 2008-08-12	4
## 2008-08-13	0
## 2008-08-19	0
## 2008-08-21	1
## 2008-08-25	0
## 2008-08-29	3
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## 2019-10-21	2
## 2019-10-22	4
## 2019-10-25	4

```

## 2019-10-28      4
## 2019-10-31      3
## 2019-11-01      3
## 2019-11-06      0
## 2019-11-07      0
## 2019-11-08      0
## 2019-11-14      2
## 2019-11-15      2
## 2019-11-19      1
## 2019-12-02      0
## 2019-12-05      1
## 2019-12-09      0
## 2019-12-10      0
## 2019-12-12      1
## 2019-12-13      2
## 2019-12-16      2
## 2019-12-18      3
## 2019-12-24      1
## 2019-12-26      1
## 2019-12-27      0
## 2020-01-13      5
## 2020-01-22      2
## 2020-01-23      2
## 2020-01-27      1
## 2020-02-07      4
## 2020-02-13      0
## 2020-02-14      0
## 2020-02-18      0
## 2020-02-21      0
## 2020-02-24      0
## 2020-02-25      0
## 2020-02-27      0
## 2020-03-06      0
## 2020-03-09      1
## 2020-03-11      0
## 2020-03-12      1
## results      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
## 2005-09-28	1	0
## 2005-10-07	1	1
## 2005-10-10	1	1
## 2005-10-14	1	1
## 2005-10-19	0	0
## 2005-10-21	2	2
## 2005-10-24	2	2
## 2005-10-28	15	15
## 2005-11-14	15	15
## 2005-11-16	1	1
## 2005-11-22	2	2
## 2005-11-23	2	2
## 2005-12-06	2	2
## 2005-12-12	0	0
## 2005-12-13	8	8
## 2005-12-14	8	8
## 2005-12-16	8	8
## 2005-12-23	8	8
## 2005-12-27	0	0
## 2005-12-29	0	0
## 2006-01-05	3	3
## 2006-01-06	0	0
## 2006-01-09	0	0
## 2006-01-19	0	0
## 2006-01-23	2	2
## 2006-01-24	2	2
## 2006-01-26	0	0
## 2006-01-27	4	4
## 2006-02-01	4	4
## 2006-02-03	0	0
## 2006-02-07	2	2
## 2006-02-10	3	3
## 2006-02-15	3	3
## 2006-03-03	0	0
## 2006-03-09	1	1
## 2006-03-20	7	7
## 2006-03-24	1	1
## 2006-03-28	1	1
## 2006-03-29	1	1
## 2006-03-30	1	1
## 2006-04-10	0	0
## 2006-04-11	0	0
## 2006-04-12	1	1
## 2006-04-17	2	2
## 2006-04-18	2	2
## 2006-04-20	0	0

## 2006-04-27	4	4
## 2006-05-02	5	5
## 2006-05-05	5	5
## 2006-05-12	1	1
## 2006-05-25	2	2
## 2006-05-31	1	1
## 2006-06-02	0	0
## 2006-06-05	4	4
## 2006-06-06	4	4
## 2006-06-08	4	4
## 2006-06-12	0	0
## 2006-06-19	5	5
## 2006-06-28	5	5
## 2006-06-30	5	5
## 2006-07-12	0	0
## 2006-07-13	0	0
## 2006-07-21	3	3
## 2006-07-24	3	3
## 2006-07-26	3	3
## 2006-07-27	1	1
## 2006-07-28	1	1
## 2006-08-01	2	2
## 2006-08-04	0	0
## 2006-08-09	0	0
## 2006-08-10	0	0
## 2006-08-21	1	1
## 2006-08-22	1	1
## 2006-08-25	3	3
## 2006-08-31	0	0
## 2006-09-08	2	2
## 2006-09-15	0	0
## 2006-09-18	2	2
## 2006-09-20	2	2
## 2006-09-22	3	3
## 2006-09-25	3	3
## 2006-09-26	3	3
## 2006-10-02	3	3
## 2006-10-12	1	1
## 2006-10-16	0	0
## 2006-10-17	5	5
## 2006-10-18	5	5
## 2006-10-27	1	1
## 2006-10-30	1	1
## 2006-11-06	2	2
## 2006-11-13	2	2
## 2006-11-17	3	3
## 2006-11-20	3	3
## 2006-11-27	0	0
## 2006-12-08	2	2
## 2006-12-14	0	0

## 2006-12-15	0	0
## 2006-12-27	2	2
## 2007-01-04	2	2
## 2007-01-08	0	0
## 2007-01-12	1	1
## 2007-01-16	1	1
## 2007-01-17	0	0
## 2007-01-22	0	0
## 2007-01-24	2	2
## 2007-01-31	2	2
## 2007-02-01	2	2
## 2007-02-05	1	1
## 2007-02-06	0	0
## 2007-02-08	1	1
## 2007-02-13	2	2
## 2007-02-20	0	0
## 2007-02-23	0	0
## 2007-03-01	0	0
## 2007-03-14	1	1
## 2007-03-20	3	3
## 2007-03-22	0	0
## 2007-03-23	0	0
## 2007-03-27	0	0
## 2007-03-28	0	0
## 2007-04-10	0	0
## 2007-04-18	4	4
## 2007-04-19	0	0
## 2007-04-24	0	0
## 2007-04-26	0	0
## 2007-04-27	0	0
## 2007-04-30	1	1
## 2007-05-03	1	1
## 2007-05-07	0	0
## 2007-05-08	0	0
## 2007-05-09	0	0
## 2007-05-22	3	3
## 2007-05-23	3	3
## 2007-05-30	2	2
## 2007-06-05	0	0
## 2007-06-07	1	1
## 2007-06-12	0	0
## 2007-06-14	1	1
## 2007-06-15	0	0
## 2007-06-29	5	5
## 2007-07-02	5	5
## 2007-07-06	5	5
## 2007-07-11	2	2
## 2007-07-13	2	2
## 2007-07-31	0	0
## 2007-08-06	2	2

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

## 2008-04-03	4	4
## 2008-04-07	4	4
## 2008-04-09	1	1
## 2008-04-10	1	1
## 2008-04-14	0	0
## 2008-04-30	1	1
## 2008-05-01	1	1
## 2008-05-06	0	0
## 2008-05-07	0	0
## 2008-05-12	0	0
## 2008-05-13	3	3
## 2008-05-14	3	3
## 2008-05-15	3	3
## 2008-05-16	3	3
## 2008-05-22	0	0
## 2008-05-28	1	1
## 2008-06-02	3	3
## 2008-06-05	3	3
## 2008-06-12	3	3
## 2008-06-13	3	3
## 2008-06-17	3	3
## 2008-06-18	1	1
## 2008-06-23	0	0
## 2008-06-24	1	1
## 2008-07-01	0	0
## 2008-07-03	3	3
## 2008-07-16	3	3
## 2008-07-21	2	2
## 2008-07-31	6	6
## 2008-08-07	4	4
## 2008-08-08	4	4
## 2008-08-11	4	4
## 2008-08-12	4	4
## 2008-08-13	0	0
## 2008-08-19	0	0
## 2008-08-21	1	1
## 2008-08-25	0	0
## 2008-08-29	3	3
## 2008-09-04	1	1
## 2008-09-08	0	0
## 2008-09-12	2	2
## 2008-09-15	1	1
## 2008-10-02	0	0
## 2008-10-10	2	2
## 2008-10-16	5	5
## 2008-10-17	5	5
## 2008-10-20	5	5
## 2008-10-22	5	5
## 2008-10-23	1	1
## 2008-10-30	3	3

## 2008-11-03	3	3
## 2008-11-05	0	0
## 2008-11-10	1	1
## 2008-11-11	1	1
## 2008-11-18	0	0
## 2008-11-21	5	5
## 2008-11-24	5	5
## 2008-11-25	5	5
## 2008-12-09	1	1
## 2008-12-15	2	2
## 2008-12-22	0	0
## 2008-12-24	1	1
## 2008-12-26	0	0
## 2008-12-29	3	3
## 2009-01-07	3	3
## 2009-01-08	3	3
## 2009-01-21	2	2
## 2009-01-22	2	2
## 2009-01-23	2	2
## 2009-01-30	2	2
## 2009-02-04	0	0
## 2009-02-05	1	1
## 2009-02-11	2	2
## 2009-02-18	0	0
## 2009-02-20	2	2
## 2009-02-24	2	2
## 2009-02-26	0	0
## 2009-03-02	0	0
## 2009-03-04	1	1
## 2009-03-10	4	4
## 2009-03-12	4	4
## 2009-03-17	2	2
## 2009-03-19	0	0
## 2009-03-31	5	5
## 2009-04-07	3	3
## 2009-04-09	3	3
## 2009-04-20	4	4
## 2009-04-21	4	4
## 2009-04-23	4	4
## 2009-04-30	4	4
## 2009-05-12	0	0
## 2009-05-20	0	0
## 2009-05-28	3	3
## 2009-05-29	3	3
## 2009-06-01	3	3
## 2009-06-02	3	3
## 2009-06-08	1	1
## 2009-06-11	2	2
## 2009-06-12	2	2
## 2009-06-16	2	2

## 2009-06-19	0	0
## 2009-06-22	0	0
## 2009-06-26	0	0
## 2009-06-29	1	1
## 2009-07-01	1	1
## 2009-07-02	1	1
## 2009-07-08	1	1
## 2009-07-09	1	1
## 2009-07-10	1	1
## 2009-07-17	1	1
## 2009-07-20	1	1
## 2009-07-24	6	6
## 2009-08-05	2	2
## 2009-08-07	1	1
## 2009-08-11	2	2
## 2009-08-19	5	5
## 2009-08-26	5	5
## 2009-09-01	9	9
## 2009-09-08	9	9
## 2009-09-10	9	9
## 2009-09-11	9	9
## 2009-09-14	9	9
## 2009-09-21	1	1
## 2009-09-25	2	2
## 2009-09-28	0	0
## 2009-10-02	3	3
## 2009-10-05	3	3
## 2009-10-08	3	3
## 2009-10-12	3	3
## 2009-10-15	2	2
## 2009-10-21	0	0
## 2009-10-28	1	1
## 2009-11-05	3	3
## 2009-11-06	3	3
## 2009-11-09	3	3
## 2009-11-11	1	1
## 2009-12-08	0	0
## 2009-12-17	0	0
## 2009-12-30	1	1
## 2010-01-04	1	1
## 2010-01-05	1	1
## 2010-01-14	3	3
## 2010-01-28	4	4
## 2010-02-02	4	4
## 2010-02-08	3	3
## 2010-02-09	3	3
## 2010-02-12	3	3
## 2010-02-16	3	3
## 2010-02-24	4	4
## 2010-02-25	2	2

## 2010-03-05	1	1
## 2010-03-10	2	2
## 2010-03-15	0	0
## 2010-03-16	0	0
## 2010-03-19	3	3
## 2010-03-22	3	3
## 2010-03-25	0	0
## 2010-03-30	2	2
## 2010-04-06	0	0
## 2010-04-08	1	1
## 2010-04-12	1	1
## 2010-04-15	0	0
## 2010-04-28	2	2
## 2010-04-29	2	2
## 2010-04-30	1	1
## 2010-05-05	1	1
## 2010-05-07	1	1
## 2010-05-14	1	1
## 2010-05-18	1	1
## 2010-05-19	1	1
## 2010-05-20	1	1
## 2010-05-21	1	1
## 2010-05-26	4	4
## 2010-05-27	4	4
## 2010-06-03	0	0
## 2010-06-04	0	0
## 2010-06-07	1	1
## 2010-06-08	1	1
## 2010-06-16	3	3
## 2010-06-18	0	0
## 2010-06-21	0	0
## 2010-06-23	1	1
## 2010-06-24	0	0
## 2010-06-28	0	0
## 2010-06-30	2	2
## 2010-07-06	2	2
## 2010-07-07	2	2
## 2010-07-08	2	2
## 2010-07-12	1	1
## 2010-07-16	0	0
## 2010-07-19	5	5
## 2010-07-21	5	5
## 2010-08-20	0	0
## 2010-08-25	1	1
## 2010-08-31	4	4
## 2010-09-01	4	4
## 2010-09-03	4	4
## 2010-09-08	0	0
## 2010-09-17	2	2
## 2010-09-21	2	2

## 2010-09-22	0	0
## 2010-09-23	2	2
## 2010-10-01	2	2
## 2010-10-05	1	1
## 2010-10-07	1	1
## 2010-10-12	2	2
## 2010-10-13	2	2
## 2010-10-15	1	1
## 2010-10-19	1	1
## 2010-10-26	4	4
## 2010-10-29	0	0
## 2010-11-08	0	0
## 2010-11-12	1	1
## 2010-11-15	1	1
## 2010-11-16	4	4
## 2010-11-22	4	4
## 2010-11-24	1	1
## 2010-11-29	0	0
## 2010-12-06	1	1
## 2010-12-10	1	1
## 2010-12-17	2	2
## 2010-12-21	2	2
## 2010-12-28	2	2
## 2011-01-04	4	4
## 2011-01-10	4	4
## 2011-01-24	4	4
## 2011-01-31	0	0
## 2011-02-22	0	0
## 2011-02-23	0	0
## 2011-02-28	2	2
## 2011-03-02	2	2
## 2011-03-11	2	2
## 2011-03-29	1	1
## 2011-03-30	1	1
## 2011-04-04	0	0
## 2011-04-06	0	0
## 2011-04-18	2	2
## 2011-04-21	2	2
## 2011-04-29	2	2
## 2011-05-05	3	3
## 2011-05-13	1	1
## 2011-05-17	0	0
## 2011-05-19	1	1
## 2011-05-25	0	0
## 2011-05-27	0	0
## 2011-06-01	1	1
## 2011-06-02	1	1
## 2011-06-03	0	0
## 2011-06-09	2	2
## 2011-06-14	1	1

## 2011-06-15	1	1
## 2011-06-17	3	3
## 2011-06-20	3	3
## 2011-06-23	1	1
## 2011-07-01	2	2
## 2011-07-07	1	1
## 2011-07-12	0	0
## 2011-07-13	0	0
## 2011-07-18	0	0
## 2011-07-19	0	0
## 2011-07-20	0	0
## 2011-07-28	1	1
## 2011-08-02	1	1
## 2011-08-05	0	0
## 2011-08-18	0	0
## 2011-08-22	1	1
## 2011-08-23	1	1
## 2011-08-25	2	2
## 2011-08-26	2	2
## 2011-08-30	1	1
## 2011-09-08	0	0
## 2011-09-13	4	4
## 2011-10-06	3	3
## 2011-10-07	4	4
## 2011-10-13	4	4
## 2011-10-17	1	1
## 2011-10-19	1	1
## 2011-10-28	3	3
## 2011-11-01	0	0
## 2011-11-10	1	1
## 2011-11-14	0	0
## 2011-11-16	0	0
## 2011-11-29	5	5
## 2011-12-09	2	2
## 2011-12-13	3	3
## 2011-12-15	3	3
## 2011-12-23	0	0
## 2011-12-28	1	1
## 2011-12-29	1	1
## 2012-01-17	3	3
## 2012-01-18	3	3
## 2012-01-19	3	3
## 2012-01-24	5	5
## 2012-01-31	3	3
## 2012-02-01	3	3
## 2012-02-08	0	0
## 2012-02-09	0	0
## 2012-02-10	1	1
## 2012-02-16	1	1
## 2012-03-01	1	1

## 2012-03-02	1	1
## 2012-03-12	3	3
## 2012-03-13	3	3
## 2012-03-16	2	2
## 2012-03-19	2	2
## 2012-03-23	2	2
## 2012-03-30	0	0
## 2012-04-05	0	0
## 2012-04-09	0	0
## 2012-04-10	2	2
## 2012-04-13	4	4
## 2012-04-17	4	4
## 2012-04-20	0	0
## 2012-04-23	4	4
## 2012-04-25	4	4
## 2012-04-27	4	4
## 2012-04-30	0	0
## 2012-05-04	1	1
## 2012-05-25	6	6
## 2012-06-05	2	2
## 2012-06-26	3	3
## 2012-06-27	3	3
## 2012-06-28	3	3
## 2012-07-19	0	0
## 2012-07-25	2	2
## 2012-07-27	2	2
## 2012-07-30	1	1
## 2012-07-31	1	1
## 2012-08-06	0	0
## 2012-08-07	1	1
## 2012-08-14	1	1
## 2012-08-17	4	4
## 2012-08-20	4	4
## 2012-08-23	1	1
## 2012-08-28	0	0
## 2012-08-29	0	0
## 2012-08-30	1	1
## 2012-09-10	0	0
## 2012-09-13	0	0
## 2012-09-27	4	4
## 2012-10-09	1	1
## 2012-10-12	5	5
## 2012-10-16	5	5
## 2012-10-31	2	2
## 2012-11-14	1	1
## 2012-11-16	2	2
## 2012-11-26	2	2
## 2012-11-30	0	0
## 2012-12-03	0	0
## 2012-12-05	4	4

## 2012-12-12	1	1
## 2012-12-17	3	3
## 2012-12-18	3	3
## 2012-12-21	0	0
## 2012-12-26	0	0
## 2012-12-31	2	2
## 2013-01-03	3	3
## 2013-01-04	3	3
## 2013-01-10	1	1
## 2013-01-11	0	0
## 2013-01-14	0	0
## 2013-01-22	2	2
## 2013-01-29	0	0
## 2013-02-05	3	3
## 2013-02-06	3	3
## 2013-02-21	2	2
## 2013-02-25	13	13
## 2013-02-26	13	13
## 2013-02-27	13	13
## 2013-03-04	13	13
## 2013-03-07	13	13
## 2013-03-08	13	13
## 2013-03-11	13	13
## 2013-03-12	13	13
## 2013-03-18	3	3
## 2013-04-09	2	2
## 2013-04-10	2	2
## 2013-04-16	2	2
## 2013-04-17	2	2
## 2013-04-19	0	0
## 2013-04-23	2	2
## 2013-04-24	2	2
## 2013-04-30	3	3
## 2013-05-09	3	3
## 2013-05-15	3	3
## 2013-05-20	0	0
## 2013-05-24	2	2
## 2013-05-30	0	0
## 2013-06-04	0	0
## 2013-06-10	2	2
## 2013-06-12	1	1
## 2013-06-14	2	2
## 2013-06-18	2	2
## 2013-06-20	0	0
## 2013-06-21	0	0
## 2013-06-25	1	1
## 2013-07-02	4	4
## 2013-07-10	5	5
## 2013-07-12	5	5
## 2013-07-16	5	5

## 2013-07-19	0	0
## 2013-07-23	4	4
## 2013-07-30	2	2
## 2013-08-07	1	1
## 2013-08-08	1	1
## 2013-08-21	3	3
## 2013-08-26	1	1
## 2013-08-29	5	5
## 2013-09-10	2	2
## 2013-09-12	3	3
## 2013-09-17	3	3
## 2013-09-23	3	3
## 2013-10-03	4	4
## 2013-10-15	5	5
## 2013-10-22	5	5
## 2013-10-23	1	1
## 2013-10-25	0	0
## 2013-10-30	2	2
## 2013-10-31	2	2
## 2013-11-08	3	3
## 2013-11-14	3	3
## 2013-11-20	0	0
## 2013-11-22	1	1
## 2013-11-26	1	1
## 2013-11-29	0	0
## 2013-12-10	5	5
## 2013-12-19	1	1
## 2013-12-23	1	1
## 2014-01-06	4	4
## 2014-01-17	5	5
## 2014-01-21	5	5
## 2014-01-22	5	5
## 2014-01-23	5	5
## 2014-01-27	3	3
## 2014-01-30	3	3
## 2014-02-03	2	2
## 2014-02-11	0	0
## 2014-02-21	5	5
## 2014-02-25	5	5
## 2014-02-26	0	0
## 2014-03-03	4	4
## 2014-03-06	4	4
## 2014-03-07	4	4
## 2014-03-12	0	0
## 2014-03-18	0	0
## 2014-03-19	0	0
## 2014-03-24	2	2
## 2014-03-25	2	2
## 2014-03-28	2	2
## 2014-03-31	2	2

## 2014-04-01	2	2
## 2014-04-04	0	0
## 2014-04-07	2	2
## 2014-04-16	2	2
## 2014-04-22	4	4
## 2014-04-28	1	1
## 2014-05-01	8	8
## 2014-05-02	8	8
## 2014-05-06	8	8
## 2014-05-15	2	2
## 2014-05-16	2	2
## 2014-05-19	2	2
## 2014-05-20	10	10
## 2014-05-22	10	10
## 2014-06-02	10	10
## 2014-06-03	10	10
## 2014-06-09	1	1
## 2014-06-12	6	6
## 2014-06-13	6	6
## 2014-06-17	6	6
## 2014-06-26	2	2
## 2014-06-27	0	0
## 2014-06-30	1	1
## 2014-07-16	0	0
## 2014-07-17	1	1
## 2014-07-21	0	0
## 2014-07-22	1	1
## 2014-08-04	0	0
## 2014-08-08	2	2
## 2014-08-11	2	2
## 2014-08-21	1	1
## 2014-08-22	1	1
## 2014-08-27	1	1
## 2014-08-29	1	1
## 2014-09-18	1	1
## 2014-09-24	1	1
## 2014-09-25	1	1
## 2014-09-26	1	1
## 2014-09-29	1	1
## 2014-10-01	0	0
## 2014-10-02	1	1
## 2014-10-07	0	0
## 2014-10-10	0	0
## 2014-10-13	6	6
## 2014-10-30	4	4
## 2014-11-03	4	4
## 2014-11-13	1	1
## 2014-11-17	1	1
## 2014-11-19	1	1
## 2014-11-28	3	3

## 2014-12-02	3	3
## 2014-12-09	2	2
## 2014-12-11	2	2
## 2014-12-15	1	1
## 2014-12-17	4	4
## 2014-12-18	4	4
## 2015-01-02	6	6
## 2015-01-06	0	0
## 2015-01-07	1	1
## 2015-01-08	1	1
## 2015-01-13	1	1
## 2015-01-15	5	5
## 2015-01-20	5	5
## 2015-01-23	5	5
## 2015-01-29	1	1
## 2015-01-30	0	0
## 2015-02-02	0	0
## 2015-02-03	1	1
## 2015-02-05	0	0
## 2015-02-11	2	2
## 2015-02-18	5	5
## 2015-02-23	5	5
## 2015-02-27	3	3
## 2015-03-03	3	3
## 2015-03-06	0	0
## 2015-03-09	0	0
## 2015-03-10	8	8
## 2015-03-11	8	8
## 2015-03-12	8	8
## 2015-03-16	8	8
## 2015-03-20	8	8
## 2015-03-23	0	0
## 2015-03-30	2	2
## 2015-04-06	0	0
## 2015-04-20	5	5
## 2015-04-23	5	5
## 2015-04-24	5	5
## 2015-05-01	1	1
## 2015-05-11	1	1
## 2015-05-14	1	1
## 2015-05-27	1	1
## 2015-06-01	2	2
## 2015-06-02	0	0
## 2015-06-10	2	2
## 2015-06-16	4	4
## 2015-06-22	4	4
## 2015-06-23	0	0
## 2015-06-24	0	0
## 2015-06-25	0	0
## 2015-06-29	1	1

## 2015-07-02	3	3
## 2015-07-08	3	3
## 2015-07-10	3	3
## 2015-07-14	0	0
## 2015-07-24	2	2
## 2015-07-28	2	2
## 2015-07-31	3	3
## 2015-08-07	2	2
## 2015-08-10	2	2
## 2015-08-17	3	3
## 2015-08-19	0	0
## 2015-08-24	0	0
## 2015-08-28	3	3
## 2015-09-02	3	3
## 2015-09-09	8	8
## 2015-09-15	8	8
## 2015-09-18	0	0
## 2015-09-22	1	1
## 2015-09-23	1	1
## 2015-09-24	0	0
## 2015-10-08	4	4
## 2015-10-12	4	4
## 2015-10-19	2	2
## 2015-10-28	0	0
## 2015-10-29	3	3
## 2015-11-06	0	0
## 2015-11-17	0	0
## 2015-11-18	1	1
## 2015-11-20	1	1
## 2015-11-23	1	1
## 2015-11-24	2	2
## 2015-11-27	2	2
## 2015-12-07	2	2
## 2015-12-11	0	0
## 2015-12-15	2	2
## 2015-12-16	2	2
## 2015-12-17	0	0
## 2015-12-21	4	4
## 2015-12-24	4	4
## 2015-12-30	0	0
## 2016-01-04	0	0
## 2016-01-05	1	1
## 2016-01-06	1	1
## 2016-01-11	2	2
## 2016-01-12	2	2
## 2016-01-13	1	1
## 2016-01-14	1	1
## 2016-01-15	4	4
## 2016-01-25	2	2
## 2016-01-29	2	2

## 2016-02-04	2	2
## 2016-02-10	2	2
## 2016-02-12	6	6
## 2016-02-18	6	6
## 2016-02-29	2	2
## 2016-03-08	1	1
## 2016-03-16	1	1
## 2016-03-28	3	3
## 2016-04-11	5	5
## 2016-04-14	5	5
## 2016-05-04	0	0
## 2016-05-19	0	0
## 2016-05-24	2	2
## 2016-05-31	3	3
## 2016-06-09	4	4
## 2016-06-14	1	1
## 2016-06-16	3	3
## 2016-06-17	3	3
## 2016-06-20	3	3
## 2016-06-22	1	1
## 2016-06-29	4	4
## 2016-07-06	4	4
## 2016-07-07	4	4
## 2016-07-08	4	4
## 2016-07-11	4	4
## 2016-07-20	0	0
## 2016-07-21	1	1
## 2016-07-28	1	1
## 2016-08-02	0	0
## 2016-08-05	2	2
## 2016-08-09	1	1
## 2016-08-12	2	2
## 2016-08-15	2	2
## 2016-08-18	1	1
## 2016-08-24	3	3
## 2016-08-26	0	0
## 2016-08-31	0	0
## 2016-09-01	4	4
## 2016-09-14	1	1
## 2016-09-23	2	2
## 2016-10-06	2	2
## 2016-10-14	0	0
## 2016-10-24	0	0
## 2016-10-25	0	0
## 2016-10-27	3	3
## 2016-11-01	0	0
## 2016-11-02	0	0
## 2016-11-03	4	4
## 2016-11-08	4	4
## 2016-11-11	3	3

## 2016-11-16	2	2
## 2016-11-18	2	2
## 2016-11-23	2	2
## 2016-11-25	2	2
## 2016-11-29	1	1
## 2016-12-01	1	1
## 2016-12-07	2	2
## 2016-12-09	1	1
## 2016-12-12	3	3
## 2016-12-30	0	0
## 2017-01-05	4	4
## 2017-01-12	0	0
## 2017-01-18	1	1
## 2017-01-19	1	1
## 2017-01-25	3	3
## 2017-01-26	3	3
## 2017-02-08	3	3
## 2017-02-14	1	1
## 2017-02-24	4	4
## 2017-02-27	4	4
## 2017-03-06	0	0
## 2017-03-08	1	1
## 2017-03-13	0	0
## 2017-03-15	2	2
## 2017-03-20	0	0
## 2017-03-22	4	4
## 2017-03-27	4	4
## 2017-03-28	4	4
## 2017-03-30	1	1
## 2017-04-03	1	1
## 2017-04-05	6	6
## 2017-04-06	6	6
## 2017-04-10	6	6
## 2017-04-25	2	2
## 2017-04-28	0	0
## 2017-05-08	4	4
## 2017-05-09	4	4
## 2017-05-11	0	0
## 2017-05-19	6	6
## 2017-05-24	6	6
## 2017-05-25	6	6
## 2017-06-01	4	4
## 2017-06-09	0	0
## 2017-06-12	0	0
## 2017-06-13	0	0
## 2017-06-14	0	0
## 2017-06-16	1	1
## 2017-06-20	2	2
## 2017-06-22	2	2
## 2017-06-29	7	7

## 2017-07-05	7	7
## 2017-07-06	7	7
## 2017-07-07	7	7
## 2017-07-12	3	3
## 2017-07-17	0	0
## 2017-07-18	0	0
## 2017-07-25	1	1
## 2017-08-01	1	1
## 2017-08-15	0	0
## 2017-08-16	0	0
## 2017-08-17	0	0
## 2017-08-18	1	1
## 2017-08-24	1	1
## 2017-08-31	2	2
## 2017-09-01	2	2
## 2017-09-07	0	0
## 2017-09-12	3	3
## 2017-09-27	1	1
## 2017-09-28	1	1
## 2017-10-04	3	3
## 2017-10-06	1	1
## 2017-10-11	0	0
## 2017-10-13	1	1
## 2017-10-24	1	1
## 2017-10-26	0	0
## 2017-11-17	3	3
## 2017-11-24	0	0
## 2017-11-28	3	3
## 2017-11-30	3	3
## 2017-12-11	4	4
## 2017-12-15	3	3
## 2017-12-22	1	1
## 2017-12-27	1	1
## 2018-01-04	1	1
## 2018-01-11	3	3
## 2018-01-22	2	2
## 2018-01-23	2	2
## 2018-01-24	0	0
## 2018-01-30	1	1
## 2018-02-01	0	0
## 2018-02-08	0	0
## 2018-02-09	4	4
## 2018-02-14	4	4
## 2018-02-15	4	4
## 2018-02-21	5	5
## 2018-02-22	5	5
## 2018-03-07	6	6
## 2018-03-12	6	6
## 2018-03-13	0	0
## 2018-03-20	1	1

## 2018-03-26	1	1
## 2018-03-27	0	0
## 2018-03-29	1	1
## 2018-04-05	3	3
## 2018-04-18	1	1
## 2018-04-20	0	0
## 2018-04-23	0	0
## 2018-04-30	1	1
## 2018-05-02	0	0
## 2018-05-03	1	1
## 2018-05-07	1	1
## 2018-05-08	1	1
## 2018-05-11	2	2
## 2018-05-16	2	2
## 2018-05-17	0	0
## 2018-05-23	2	2
## 2018-06-05	1	1
## 2018-06-06	1	1
## 2018-06-19	1	1
## 2018-06-21	0	0
## 2018-06-29	1	1
## 2018-07-05	3	3
## 2018-07-06	3	3
## 2018-07-17	5	5
## 2018-07-26	2	2
## 2018-07-27	0	0
## 2018-08-01	0	0
## 2018-08-02	1	1
## 2018-08-03	1	1
## 2018-08-09	0	0
## 2018-08-27	2	2
## 2018-08-30	2	2
## 2018-09-04	2	2
## 2018-09-07	2	2
## 2018-09-20	7	7
## 2018-10-01	0	0
## 2018-10-02	1	1
## 2018-10-04	0	0
## 2018-10-18	0	0
## 2018-10-23	2	2
## 2018-11-07	1	1
## 2018-11-13	3	3
## 2018-11-14	3	3
## 2018-11-15	0	0
## 2018-11-19	0	0
## 2018-12-03	0	0
## 2018-12-10	3	3
## 2018-12-13	0	0
## 2018-12-14	0	0
## 2018-12-24	1	1

## 2018-12-27	0	0
## 2019-01-04	2	2
## 2019-01-10	0	0
## 2019-01-25	3	3
## 2019-01-31	3	3
## 2019-02-05	3	3
## 2019-02-22	3	3
## 2019-02-25	3	3
## 2019-03-01	0	0
## 2019-03-04	0	0
## 2019-03-06	0	0
## 2019-03-07	0	0
## 2019-03-13	2	2
## 2019-03-14	2	2
## 2019-03-20	1	1
## 2019-03-21	1	1
## 2019-03-22	0	0
## 2019-03-26	1	1
## 2019-03-27	1	1
## 2019-03-29	6	6
## 2019-04-10	2	2
## 2019-04-15	2	2
## 2019-04-22	2	2
## 2019-04-24	2	2
## 2019-04-29	2	2
## 2019-05-06	0	0
## 2019-05-07	0	0
## 2019-05-08	2	2
## 2019-05-10	2	2
## 2019-05-16	1	1
## 2019-05-22	0	0
## 2019-06-10	0	0
## 2019-06-14	0	0
## 2019-06-19	1	1
## 2019-06-21	1	1
## 2019-06-26	4	4
## 2019-07-10	3	3
## 2019-07-11	3	3
## 2019-07-19	0	0
## 2019-07-23	2	2
## 2019-08-05	0	0
## 2019-08-06	2	2
## 2019-08-07	2	2
## 2019-08-14	0	0
## 2019-08-16	2	2
## 2019-08-23	0	0
## 2019-09-06	9	9
## 2019-09-19	0	0
## 2019-09-26	0	0
## 2019-09-30	0	0

## 2019-10-03	1	1
## 2019-10-07	6	6
## 2019-10-08	6	6
## 2019-10-09	6	6
## 2019-10-10	6	6
## 2019-10-21	2	2
## 2019-10-22	4	4
## 2019-10-25	4	4
## 2019-10-28	4	4
## 2019-10-31	3	3
## 2019-11-01	3	3
## 2019-11-06	0	0
## 2019-11-07	0	0
## 2019-11-08	0	0
## 2019-11-14	2	2
## 2019-11-15	2	2
## 2019-11-19	1	1
## 2019-12-02	0	0
## 2019-12-05	1	1
## 2019-12-09	0	0
## 2019-12-10	0	0
## 2019-12-12	1	1
## 2019-12-13	2	2
## 2019-12-16	2	2
## 2019-12-18	3	3
## 2019-12-24	1	1
## 2019-12-26	1	1
## 2019-12-27	0	0
## 2020-01-13	5	5
## 2020-01-22	2	2
## 2020-01-23	2	2
## 2020-01-27	1	1
## 2020-02-07	4	4
## 2020-02-13	0	0
## 2020-02-14	0	0
## 2020-02-18	0	0
## 2020-02-21	0	0
## 2020-02-24	0	0
## 2020-02-25	0	0
## 2020-02-27	0	0
## 2020-03-06	0	0
## 2020-03-09	1	1
## 2020-03-11	0	0
## 2020-03-12	1	1

```

sum <- sum(predRF_round==testingSet$incrDaysThisCycle)
length <- length(testingSet$incrDaysThisCycle)
accuracy_rfMod_round <- (sum/length)
accuracy_rfMod_round

```

```
## [1] 0.9990826
```

```
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
## 2005-09-28	1	0
## 2005-10-07	1	1
## 2005-10-10	1	1
## 2005-10-14	1	1
## 2005-10-19	0	0
## 2005-10-21	2	2
## 2005-10-24	2	2
## 2005-10-28	15	15
## 2005-11-14	15	15
## 2005-11-16	1	1
## 2005-11-22	2	2
## 2005-11-23	2	2
## 2005-12-06	2	2
## 2005-12-12	0	0
## 2005-12-13	8	8
## 2005-12-14	8	8
## 2005-12-16	8	8
## 2005-12-23	8	8
## 2005-12-27	0	0
## 2005-12-29	0	0
## 2006-01-05	3	3
## 2006-01-06	0	0
## 2006-01-09	0	0
## 2006-01-19	0	0
## 2006-01-23	2	2
## 2006-01-24	2	2
## 2006-01-26	0	0
## 2006-01-27	4	4
## 2006-02-01	4	4
## 2006-02-03	0	0
## 2006-02-07	2	2
## 2006-02-10	3	3
## 2006-02-15	3	3
## 2006-03-03	0	0
## 2006-03-09	1	1
## 2006-03-20	7	7
## 2006-03-24	1	1
## 2006-03-28	1	1
## 2006-03-29	1	1

## 2006-03-30	1	1
## 2006-04-10	0	0
## 2006-04-11	0	0
## 2006-04-12	1	1
## 2006-04-17	2	2
## 2006-04-18	2	2
## 2006-04-20	0	0
## 2006-04-27	4	4
## 2006-05-02	5	5
## 2006-05-05	5	5
## 2006-05-12	1	1
## 2006-05-25	2	2
## 2006-05-31	1	1
## 2006-06-02	0	0
## 2006-06-05	4	4
## 2006-06-06	4	4
## 2006-06-08	4	4
## 2006-06-12	0	0
## 2006-06-19	5	5
## 2006-06-28	5	5
## 2006-06-30	5	5
## 2006-07-12	0	0
## 2006-07-13	0	0
## 2006-07-21	3	3
## 2006-07-24	3	3
## 2006-07-26	3	3
## 2006-07-27	1	1
## 2006-07-28	1	1
## 2006-08-01	2	2
## 2006-08-04	0	0
## 2006-08-09	0	0
## 2006-08-10	0	0
## 2006-08-21	1	1
## 2006-08-22	1	1
## 2006-08-25	3	3
## 2006-08-31	0	0
## 2006-09-08	2	2
## 2006-09-15	0	0
## 2006-09-18	2	2
## 2006-09-20	2	2
## 2006-09-22	3	3
## 2006-09-25	3	3
## 2006-09-26	3	3
## 2006-10-02	3	3
## 2006-10-12	1	1
## 2006-10-16	0	0
## 2006-10-17	5	5
## 2006-10-18	5	5
## 2006-10-27	1	1
## 2006-10-30	1	1

## 2006-11-06	2	2
## 2006-11-13	2	2
## 2006-11-17	3	3
## 2006-11-20	3	3
## 2006-11-27	0	0
## 2006-12-08	2	2
## 2006-12-14	0	0
## 2006-12-15	0	0
## 2006-12-27	2	2
## 2007-01-04	2	2
## 2007-01-08	0	0
## 2007-01-12	1	1
## 2007-01-16	1	1
## 2007-01-17	0	0
## 2007-01-22	0	0
## 2007-01-24	2	2
## 2007-01-31	2	2
## 2007-02-01	2	2
## 2007-02-05	1	1
## 2007-02-06	0	0
## 2007-02-08	1	1
## 2007-02-13	2	2
## 2007-02-20	0	0
## 2007-02-23	0	0
## 2007-03-01	0	0
## 2007-03-14	1	1
## 2007-03-20	3	3
## 2007-03-22	0	0
## 2007-03-23	0	0
## 2007-03-27	0	0
## 2007-03-28	0	0
## 2007-04-10	0	0
## 2007-04-18	4	4
## 2007-04-19	0	0
## 2007-04-24	0	0
## 2007-04-26	0	0
## 2007-04-27	0	0
## 2007-04-30	1	1
## 2007-05-03	1	1
## 2007-05-07	0	0
## 2007-05-08	0	0
## 2007-05-09	0	0
## 2007-05-22	3	3
## 2007-05-23	3	3
## 2007-05-30	2	2
## 2007-06-05	0	0
## 2007-06-07	1	1
## 2007-06-12	0	0
## 2007-06-14	1	1
## 2007-06-15	0	0

## 2007-06-29	5	5
## 2007-07-02	5	5
## 2007-07-06	5	5
## 2007-07-11	2	2
## 2007-07-13	2	2
## 2007-07-31	0	0
## 2007-08-06	2	2
## 2007-08-09	0	0
## 2007-08-13	1	1
## 2007-08-14	0	0
## 2007-08-20	3	3
## 2007-08-22	3	3
## 2007-08-23	1	1
## 2007-08-29	4	4
## 2007-09-04	4	4
## 2007-09-06	0	0
## 2007-09-11	1	1
## 2007-09-13	2	2
## 2007-09-17	2	2
## 2007-09-20	0	0
## 2007-09-27	0	0
## 2007-10-03	7	7
## 2007-10-09	7	7
## 2007-10-12	1	1
## 2007-10-15	2	2
## 2007-10-23	3	3
## 2007-10-24	3	3
## 2007-10-26	0	0
## 2007-10-29	1	1
## 2007-11-07	0	0
## 2007-11-12	3	3
## 2007-11-15	0	0
## 2007-11-16	0	0
## 2007-11-19	0	0
## 2007-11-21	2	2
## 2007-11-23	2	2
## 2007-11-28	1	1
## 2007-11-30	1	1
## 2007-12-06	2	2
## 2007-12-14	0	0
## 2007-12-20	3	3
## 2007-12-21	1	1
## 2007-12-26	0	0
## 2007-12-28	0	0
## 2007-12-31	0	0
## 2008-01-09	1	1
## 2008-01-14	3	3
## 2008-01-18	1	1
## 2008-01-23	1	1
## 2008-01-24	0	0

## 2008-02-05	3	3
## 2008-02-11	0	0
## 2008-02-20	1	1
## 2008-03-10	0	0
## 2008-03-12	0	0
## 2008-03-17	5	5
## 2008-03-24	5	5
## 2008-04-03	4	4
## 2008-04-07	4	4
## 2008-04-09	1	1
## 2008-04-10	1	1
## 2008-04-14	0	0
## 2008-04-30	1	1
## 2008-05-01	1	1
## 2008-05-06	0	0
## 2008-05-07	0	0
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## 2017-05-11	0	0
## 2017-05-19	6	6
## 2017-05-24	6	6
## 2017-05-25	6	6
## 2017-06-01	4	4
## 2017-06-09	0	0

## 2017-06-12	0	0
## 2017-06-13	0	0
## 2017-06-14	0	0
## 2017-06-16	1	1
## 2017-06-20	2	2
## 2017-06-22	2	2
## 2017-06-29	7	7
## 2017-07-05	7	7
## 2017-07-06	7	7
## 2017-07-07	7	7
## 2017-07-12	3	3
## 2017-07-17	0	0
## 2017-07-18	0	0
## 2017-07-25	1	1
## 2017-08-01	1	1
## 2017-08-15	0	0
## 2017-08-16	0	0
## 2017-08-17	0	0
## 2017-08-18	1	1
## 2017-08-24	1	1
## 2017-08-31	2	2
## 2017-09-01	2	2
## 2017-09-07	0	0
## 2017-09-12	3	3
## 2017-09-27	1	1
## 2017-09-28	1	1
## 2017-10-04	3	3
## 2017-10-06	1	1
## 2017-10-11	0	0
## 2017-10-13	1	1
## 2017-10-24	1	1
## 2017-10-26	0	0
## 2017-11-17	3	3
## 2017-11-24	0	0
## 2017-11-28	3	3
## 2017-11-30	3	3
## 2017-12-11	4	4
## 2017-12-15	3	3
## 2017-12-22	1	1
## 2017-12-27	1	1
## 2018-01-04	1	1
## 2018-01-11	3	3
## 2018-01-22	2	2
## 2018-01-23	2	2
## 2018-01-24	0	0
## 2018-01-30	1	1
## 2018-02-01	0	0
## 2018-02-08	0	0
## 2018-02-09	4	4
## 2018-02-14	4	4

## 2018-02-15	4	4
## 2018-02-21	5	5
## 2018-02-22	5	5
## 2018-03-07	6	6
## 2018-03-12	6	6
## 2018-03-13	0	0
## 2018-03-20	1	1
## 2018-03-26	1	1
## 2018-03-27	0	0
## 2018-03-29	1	1
## 2018-04-05	3	3
## 2018-04-18	1	1
## 2018-04-20	0	0
## 2018-04-23	0	0
## 2018-04-30	1	1
## 2018-05-02	0	0
## 2018-05-03	1	1
## 2018-05-07	1	1
## 2018-05-08	1	1
## 2018-05-11	2	2
## 2018-05-16	2	2
## 2018-05-17	0	0
## 2018-05-23	2	2
## 2018-06-05	1	1
## 2018-06-06	1	1
## 2018-06-19	1	1
## 2018-06-21	0	0
## 2018-06-29	1	1
## 2018-07-05	3	3
## 2018-07-06	3	3
## 2018-07-17	5	5
## 2018-07-26	2	2
## 2018-07-27	0	0
## 2018-08-01	0	0
## 2018-08-02	1	1
## 2018-08-03	1	1
## 2018-08-09	0	0
## 2018-08-27	2	2
## 2018-08-30	2	2
## 2018-09-04	2	2
## 2018-09-07	2	2
## 2018-09-20	7	7
## 2018-10-01	0	0
## 2018-10-02	1	1
## 2018-10-04	0	0
## 2018-10-18	0	0
## 2018-10-23	2	2
## 2018-11-07	1	1
## 2018-11-13	3	3
## 2018-11-14	3	3

## 2018-11-15	0	0
## 2018-11-19	0	0
## 2018-12-03	0	0
## 2018-12-10	3	3
## 2018-12-13	0	0
## 2018-12-14	0	0
## 2018-12-24	1	1
## 2018-12-27	0	0
## 2019-01-04	2	2
## 2019-01-10	0	0
## 2019-01-25	3	3
## 2019-01-31	3	3
## 2019-02-05	3	3
## 2019-02-22	3	3
## 2019-02-25	3	3
## 2019-03-01	0	0
## 2019-03-04	0	0
## 2019-03-06	0	0
## 2019-03-07	0	0
## 2019-03-13	2	2
## 2019-03-14	2	2
## 2019-03-20	1	1
## 2019-03-21	1	1
## 2019-03-22	0	0
## 2019-03-26	1	1
## 2019-03-27	1	1
## 2019-03-29	6	6
## 2019-04-10	2	2
## 2019-04-15	2	2
## 2019-04-22	2	2
## 2019-04-24	2	2
## 2019-04-29	2	2
## 2019-05-06	0	0
## 2019-05-07	0	0
## 2019-05-08	2	2
## 2019-05-10	2	2
## 2019-05-16	1	1
## 2019-05-22	0	0
## 2019-06-10	0	0
## 2019-06-14	0	0
## 2019-06-19	1	1
## 2019-06-21	1	1
## 2019-06-26	4	4
## 2019-07-10	3	3
## 2019-07-11	3	3
## 2019-07-19	0	0
## 2019-07-23	2	2
## 2019-08-05	0	0
## 2019-08-06	2	2
## 2019-08-07	2	2

## 2019-08-14	0	0
## 2019-08-16	2	2
## 2019-08-23	0	0
## 2019-09-06	9	9
## 2019-09-19	0	0
## 2019-09-26	0	0
## 2019-09-30	0	0
## 2019-10-03	1	1
## 2019-10-07	6	6
## 2019-10-08	6	6
## 2019-10-09	6	6
## 2019-10-10	6	6
## 2019-10-21	2	2
## 2019-10-22	4	4
## 2019-10-25	4	4
## 2019-10-28	4	4
## 2019-10-31	3	3
## 2019-11-01	3	3
## 2019-11-06	0	0
## 2019-11-07	0	0
## 2019-11-08	0	0
## 2019-11-14	2	2
## 2019-11-15	2	2
## 2019-11-19	1	1
## 2019-12-02	0	0
## 2019-12-05	1	1
## 2019-12-09	0	0
## 2019-12-10	0	0
## 2019-12-12	1	1
## 2019-12-13	2	2
## 2019-12-16	2	2
## 2019-12-18	3	3
## 2019-12-24	1	1
## 2019-12-26	1	1
## 2019-12-27	0	0
## 2020-01-13	5	5
## 2020-01-22	2	2
## 2020-01-23	2	2
## 2020-01-27	1	1
## 2020-02-07	4	4
## 2020-02-13	0	0
## 2020-02-14	0	0
## 2020-02-18	0	0
## 2020-02-21	0	0
## 2020-02-24	0	0
## 2020-02-25	0	0
## 2020-02-27	0	0
## 2020-03-06	0	0
## 2020-03-09	1	1
## 2020-03-11	0	0


```

## 2020-03-12          1          1
## 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','IncreasingDaysT
hisCycle')

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','IncreasingDaysT
hisCycle')

```

```
hisCycle')
```

```
Results_round <- rbind(predDF2_round, results_round)
```

```
Results_round
```

##	RandomForest_round	KNN_round	Rpart_round	GLM_round
## 2005-09-28	1	1	0	0
## 2005-10-07	1	2	1	1
## 2005-10-10	1	1	1	1
## 2005-10-14	1	1	1	1
## 2005-10-19	0	0	0	0
## 2005-10-21	2	3	2	2
## 2005-10-24	2	2	2	2
## 2005-10-28	15	15	14	15
## 2005-11-14	15	14	14	15
## 2005-11-16	1	1	1	1
## 2005-11-22	2	2	2	2
## 2005-11-23	2	2	2	2
## 2005-12-06	2	2	2	2
## 2005-12-12	0	0	0	0
## 2005-12-13	8	4	9	8
## 2005-12-14	8	6	9	8
## 2005-12-16	8	6	9	8
## 2005-12-23	8	4	9	8
## 2005-12-27	0	0	0	0
## 2005-12-29	0	0	0	0
## 2006-01-05	3	2	3	3
## 2006-01-06	0	0	0	0
## 2006-01-09	0	0	0	0
## 2006-01-19	0	0	0	0
## 2006-01-23	2	3	2	2
## 2006-01-24	2	1	2	2
## 2006-01-26	0	0	0	0
## 2006-01-27	4	3	4	4
## 2006-02-01	4	3	4	4
## 2006-02-03	0	0	0	0
## 2006-02-07	2	2	2	2
## 2006-02-10	3	2	3	3
## 2006-02-15	3	2	3	3
## 2006-03-03	0	0	0	0
## 2006-03-09	1	2	1	1
## 2006-03-20	7	6	6	7
## 2006-03-24	1	1	1	1
## 2006-03-28	1	2	1	1
## 2006-03-29	1	2	1	1
## 2006-03-30	1	2	1	1
## 2006-04-10	0	0	0	0
## 2006-04-11	0	0	0	0
## 2006-04-12	1	1	1	1
## 2006-04-17	2	2	2	2
## 2006-04-18	2	2	2	2

## 2006-04-20	0	0	0	0
## 2006-04-27	4	3	4	4
## 2006-05-02	5	4	5	5
## 2006-05-05	5	4	5	5
## 2006-05-12	1	2	1	1
## 2006-05-25	2	2	2	2
## 2006-05-31	1	2	1	1
## 2006-06-02	0	0	0	0
## 2006-06-05	4	2	4	4
## 2006-06-06	4	4	4	4
## 2006-06-08	4	4	4	4
## 2006-06-12	0	0	0	0
## 2006-06-19	5	4	5	5
## 2006-06-28	5	2	5	5
## 2006-06-30	5	4	5	5
## 2006-07-12	0	0	0	0
## 2006-07-13	0	0	0	0
## 2006-07-21	3	3	3	3
## 2006-07-24	3	4	3	3
## 2006-07-26	3	2	3	3
## 2006-07-27	1	2	1	1
## 2006-07-28	1	1	1	1
## 2006-08-01	2	2	2	2
## 2006-08-04	0	0	0	0
## 2006-08-09	0	0	0	0
## 2006-08-10	0	0	0	0
## 2006-08-21	1	1	1	1
## 2006-08-22	1	1	1	1
## 2006-08-25	3	3	3	3
## 2006-08-31	0	0	0	0
## 2006-09-08	2	2	2	2
## 2006-09-15	0	0	0	0
## 2006-09-18	2	2	2	2
## 2006-09-20	2	2	2	2
## 2006-09-22	3	3	3	3
## 2006-09-25	3	3	3	3
## 2006-09-26	3	3	3	3
## 2006-10-02	3	3	3	3
## 2006-10-12	1	1	1	1
## 2006-10-16	0	0	0	0
## 2006-10-17	5	3	5	5
## 2006-10-18	5	5	5	5
## 2006-10-27	1	1	1	1
## 2006-10-30	1	1	1	1
## 2006-11-06	2	3	2	2
## 2006-11-13	2	1	2	2
## 2006-11-17	3	2	3	3
## 2006-11-20	3	4	3	3
## 2006-11-27	0	0	0	0
## 2006-12-08	2	3	2	2

## 2006-12-14	0	0	0	0
## 2006-12-15	0	0	0	0
## 2006-12-27	2	2	2	2
## 2007-01-04	2	2	2	2
## 2007-01-08	0	0	0	0
## 2007-01-12	1	1	1	1
## 2007-01-16	1	1	1	1
## 2007-01-17	0	0	0	0
## 2007-01-22	0	0	0	0
## 2007-01-24	2	2	2	2
## 2007-01-31	2	2	2	2
## 2007-02-01	2	2	2	2
## 2007-02-05	1	1	1	1
## 2007-02-06	0	0	0	0
## 2007-02-08	1	2	1	1
## 2007-02-13	2	2	2	2
## 2007-02-20	0	0	0	0
## 2007-02-23	0	0	0	0
## 2007-03-01	0	0	0	0
## 2007-03-14	1	2	1	1
## 2007-03-20	3	3	3	3
## 2007-03-22	0	0	0	0
## 2007-03-23	0	0	0	0
## 2007-03-27	0	0	0	0
## 2007-03-28	0	0	0	0
## 2007-04-10	0	0	0	0
## 2007-04-18	4	3	4	4
## 2007-04-19	0	0	0	0
## 2007-04-24	0	0	0	0
## 2007-04-26	0	0	0	0
## 2007-04-27	0	0	0	0
## 2007-04-30	1	0	1	1
## 2007-05-03	1	2	1	1
## 2007-05-07	0	0	0	0
## 2007-05-08	0	0	0	0
## 2007-05-09	0	0	0	0
## 2007-05-22	3	3	3	3
## 2007-05-23	3	3	3	3
## 2007-05-30	2	2	2	2
## 2007-06-05	0	0	0	0
## 2007-06-07	1	1	1	1
## 2007-06-12	0	0	0	0
## 2007-06-14	1	1	1	1
## 2007-06-15	0	0	0	0
## 2007-06-29	5	5	5	5
## 2007-07-02	5	5	5	5
## 2007-07-06	5	5	5	5
## 2007-07-11	2	2	2	2
## 2007-07-13	2	2	2	2
## 2007-07-31	0	0	0	0

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

## 2008-03-24	5	4	5	5
## 2008-04-03	4	4	4	4
## 2008-04-07	4	4	4	4
## 2008-04-09	1	1	1	1
## 2008-04-10	1	2	1	1
## 2008-04-14	0	0	0	0
## 2008-04-30	1	1	1	1
## 2008-05-01	1	1	1	1
## 2008-05-06	0	0	0	0
## 2008-05-07	0	0	0	0
## 2008-05-12	0	0	0	0
## 2008-05-13	3	2	3	3
## 2008-05-14	3	3	3	3
## 2008-05-15	3	3	3	3
## 2008-05-16	3	1	3	3
## 2008-05-22	0	0	0	0
## 2008-05-28	1	1	1	1
## 2008-06-02	3	3	3	3
## 2008-06-05	3	3	3	3
## 2008-06-12	3	2	3	3
## 2008-06-13	3	3	3	3
## 2008-06-17	3	3	3	3
## 2008-06-18	1	1	1	1
## 2008-06-23	0	0	0	0
## 2008-06-24	1	1	1	1
## 2008-07-01	0	0	0	0
## 2008-07-03	3	3	3	3
## 2008-07-16	3	3	3	3
## 2008-07-21	2	2	2	2
## 2008-07-31	6	5	6	6
## 2008-08-07	4	4	4	4
## 2008-08-08	4	4	4	4
## 2008-08-11	4	3	4	4
## 2008-08-12	4	3	4	4
## 2008-08-13	0	0	0	0
## 2008-08-19	0	0	0	0
## 2008-08-21	1	1	1	1
## 2008-08-25	0	0	0	0
## 2008-08-29	3	4	3	3
## 2008-09-04	1	1	1	1
## 2008-09-08	0	0	0	0
## 2008-09-12	2	2	2	2
## 2008-09-15	1	1	1	1
## 2008-10-02	0	0	0	0
## 2008-10-10	2	2	2	2
## 2008-10-16	5	2	5	5
## 2008-10-17	5	4	5	5
## 2008-10-20	5	4	5	5
## 2008-10-22	5	4	5	5
## 2008-10-23	1	1	1	1

## 2008-10-30	3	3	3	3
## 2008-11-03	3	2	3	3
## 2008-11-05	0	0	0	0
## 2008-11-10	1	2	1	1
## 2008-11-11	1	1	1	1
## 2008-11-18	0	0	0	0
## 2008-11-21	5	4	5	5
## 2008-11-24	5	4	5	5
## 2008-11-25	5	4	5	5
## 2008-12-09	1	1	1	1
## 2008-12-15	2	2	2	2
## 2008-12-22	0	0	0	0
## 2008-12-24	1	1	1	1
## 2008-12-26	0	0	0	0
## 2008-12-29	3	3	3	3
## 2009-01-07	3	3	3	3
## 2009-01-08	3	3	3	3
## 2009-01-21	2	2	2	2
## 2009-01-22	2	2	2	2
## 2009-01-23	2	1	2	2
## 2009-01-30	2	1	2	2
## 2009-02-04	0	0	0	0
## 2009-02-05	1	1	1	1
## 2009-02-11	2	2	2	2
## 2009-02-18	0	0	0	0
## 2009-02-20	2	1	2	2
## 2009-02-24	2	1	2	2
## 2009-02-26	0	0	0	0
## 2009-03-02	0	0	0	0
## 2009-03-04	1	1	1	1
## 2009-03-10	4	5	4	4
## 2009-03-12	4	4	4	4
## 2009-03-17	2	2	2	2
## 2009-03-19	0	0	0	0
## 2009-03-31	5	5	5	5
## 2009-04-07	3	3	3	3
## 2009-04-09	3	3	3	3
## 2009-04-20	4	4	4	4
## 2009-04-21	4	4	4	4
## 2009-04-23	4	4	4	4
## 2009-04-30	4	3	4	4
## 2009-05-12	0	0	0	0
## 2009-05-20	0	0	0	0
## 2009-05-28	3	2	3	3
## 2009-05-29	3	3	3	3
## 2009-06-01	3	4	3	3
## 2009-06-02	3	3	3	3
## 2009-06-08	1	1	1	1
## 2009-06-11	2	2	2	2
## 2009-06-12	2	2	2	2

## 2009-06-16	2	3	2	2
## 2009-06-19	0	0	0	0
## 2009-06-22	0	0	0	0
## 2009-06-26	0	0	0	0
## 2009-06-29	1	1	1	1
## 2009-07-01	1	1	1	1
## 2009-07-02	1	1	1	1
## 2009-07-08	1	1	1	1
## 2009-07-09	1	1	1	1
## 2009-07-10	1	1	1	1
## 2009-07-17	1	1	1	1
## 2009-07-20	1	1	1	1
## 2009-07-24	6	5	6	6
## 2009-08-05	2	2	2	2
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## 2016-07-28	1	1	1	1
## 2016-08-02	0	0	0	0
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## 2016-08-09	1	1	1	1
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## 2016-08-18	1	1	1	1
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## 2010-06-21	0
## 2010-06-23	1
## 2010-06-24	0
## 2010-06-28	0
## 2010-06-30	2
## 2010-07-06	2
## 2010-07-07	2
## 2010-07-08	2
## 2010-07-12	1
## 2010-07-16	0
## 2010-07-19	5
## 2010-07-21	5
## 2010-08-20	0
## 2010-08-25	1
## 2010-08-31	4
## 2010-09-01	4
## 2010-09-03	4
## 2010-09-08	0
## 2010-09-17	2
## 2010-09-21	2
## 2010-09-22	0
## 2010-09-23	2
## 2010-10-01	2
## 2010-10-05	1
## 2010-10-07	1
## 2010-10-12	2
## 2010-10-13	2

## 2010-10-15	1
## 2010-10-19	1
## 2010-10-26	4
## 2010-10-29	0
## 2010-11-08	0
## 2010-11-12	1
## 2010-11-15	1
## 2010-11-16	4
## 2010-11-22	4
## 2010-11-24	1
## 2010-11-29	0
## 2010-12-06	1
## 2010-12-10	1
## 2010-12-17	2
## 2010-12-21	2
## 2010-12-28	2
## 2011-01-04	4
## 2011-01-10	4
## 2011-01-24	4
## 2011-01-31	0
## 2011-02-22	0
## 2011-02-23	0
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## 2011-03-02	2
## 2011-03-11	2
## 2011-03-29	1
## 2011-03-30	1
## 2011-04-04	0
## 2011-04-06	0
## 2011-04-18	2
## 2011-04-21	2
## 2011-04-29	2
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## 2011-05-13	1
## 2011-05-17	0
## 2011-05-19	1
## 2011-05-25	0
## 2011-05-27	0
## 2011-06-01	1
## 2011-06-02	1
## 2011-06-03	0
## 2011-06-09	2
## 2011-06-14	1
## 2011-06-15	1
## 2011-06-17	3
## 2011-06-20	3
## 2011-06-23	1
## 2011-07-01	2
## 2011-07-07	1
## 2011-07-12	0

## 2011-07-13	0
## 2011-07-18	0
## 2011-07-19	0
## 2011-07-20	0
## 2011-07-28	1
## 2011-08-02	1
## 2011-08-05	0
## 2011-08-18	0
## 2011-08-22	1
## 2011-08-23	1
## 2011-08-25	2
## 2011-08-26	2
## 2011-08-30	1
## 2011-09-08	0
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## 2011-10-06	3
## 2011-10-07	4
## 2011-10-13	4
## 2011-10-17	1
## 2011-10-19	1
## 2011-10-28	3
## 2011-11-01	0
## 2011-11-10	1
## 2011-11-14	0
## 2011-11-16	0
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## 2011-12-09	2
## 2011-12-13	3
## 2011-12-15	3
## 2011-12-23	0
## 2011-12-28	1
## 2011-12-29	1
## 2012-01-17	3
## 2012-01-18	3
## 2012-01-19	3
## 2012-01-24	5
## 2012-01-31	3
## 2012-02-01	3
## 2012-02-08	0
## 2012-02-09	0
## 2012-02-10	1
## 2012-02-16	1
## 2012-03-01	1
## 2012-03-02	1
## 2012-03-12	3
## 2012-03-13	3
## 2012-03-16	2
## 2012-03-19	2
## 2012-03-23	2
## 2012-03-30	0

## 2012-04-05	0
## 2012-04-09	0
## 2012-04-10	2
## 2012-04-13	4
## 2012-04-17	4
## 2012-04-20	0
## 2012-04-23	4
## 2012-04-25	4
## 2012-04-27	4
## 2012-04-30	0
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## 2012-05-25	6
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## 2012-06-26	3
## 2012-06-27	3
## 2012-06-28	3
## 2012-07-19	0
## 2012-07-25	2
## 2012-07-27	2
## 2012-07-30	1
## 2012-07-31	1
## 2012-08-06	0
## 2012-08-07	1
## 2012-08-14	1
## 2012-08-17	4
## 2012-08-20	4
## 2012-08-23	1
## 2012-08-28	0
## 2012-08-29	0
## 2012-08-30	1
## 2012-09-10	0
## 2012-09-13	0
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## 2012-10-09	1
## 2012-10-12	5
## 2012-10-16	5
## 2012-10-31	2
## 2012-11-14	1
## 2012-11-16	2
## 2012-11-26	2
## 2012-11-30	0
## 2012-12-03	0
## 2012-12-05	4
## 2012-12-12	1
## 2012-12-17	3
## 2012-12-18	3
## 2012-12-21	0
## 2012-12-26	0
## 2012-12-31	2
## 2013-01-03	3

## 2013-01-04	3
## 2013-01-10	1
## 2013-01-11	0
## 2013-01-14	0
## 2013-01-22	2
## 2013-01-29	0
## 2013-02-05	3
## 2013-02-06	3
## 2013-02-21	2
## 2013-02-25	13
## 2013-02-26	13
## 2013-02-27	13
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## 2013-03-11	13
## 2013-03-12	13
## 2013-03-18	3
## 2013-04-09	2
## 2013-04-10	2
## 2013-04-16	2
## 2013-04-17	2
## 2013-04-19	0
## 2013-04-23	2
## 2013-04-24	2
## 2013-04-30	3
## 2013-05-09	3
## 2013-05-15	3
## 2013-05-20	0
## 2013-05-24	2
## 2013-05-30	0
## 2013-06-04	0
## 2013-06-10	2
## 2013-06-12	1
## 2013-06-14	2
## 2013-06-18	2
## 2013-06-20	0
## 2013-06-21	0
## 2013-06-25	1
## 2013-07-02	4
## 2013-07-10	5
## 2013-07-12	5
## 2013-07-16	5
## 2013-07-19	0
## 2013-07-23	4
## 2013-07-30	2
## 2013-08-07	1
## 2013-08-08	1
## 2013-08-21	3
## 2013-08-26	1

## 2013-08-29	5
## 2013-09-10	2
## 2013-09-12	3
## 2013-09-17	3
## 2013-09-23	3
## 2013-10-03	4
## 2013-10-15	5
## 2013-10-22	5
## 2013-10-23	1
## 2013-10-25	0
## 2013-10-30	2
## 2013-10-31	2
## 2013-11-08	3
## 2013-11-14	3
## 2013-11-20	0
## 2013-11-22	1
## 2013-11-26	1
## 2013-11-29	0
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## 2013-12-19	1
## 2013-12-23	1
## 2014-01-06	4
## 2014-01-17	5
## 2014-01-21	5
## 2014-01-22	5
## 2014-01-23	5
## 2014-01-27	3
## 2014-01-30	3
## 2014-02-03	2
## 2014-02-11	0
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## 2014-02-26	0
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## 2014-03-06	4
## 2014-03-07	4
## 2014-03-12	0
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## 2014-03-25	2
## 2014-03-28	2
## 2014-03-31	2
## 2014-04-01	2
## 2014-04-04	0
## 2014-04-07	2
## 2014-04-16	2
## 2014-04-22	4
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## 2014-05-02	8
## 2014-05-06	8
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## 2014-05-16	2
## 2014-05-19	2
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## 2014-06-02	10
## 2014-06-03	10
## 2014-06-09	1
## 2014-06-12	6
## 2014-06-13	6
## 2014-06-17	6
## 2014-06-26	2
## 2014-06-27	0
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## 2014-07-21	0
## 2014-07-22	1
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## 2014-08-22	1
## 2014-08-27	1
## 2014-08-29	1
## 2014-09-18	1
## 2014-09-24	1
## 2014-09-25	1
## 2014-09-26	1
## 2014-09-29	1
## 2014-10-01	0
## 2014-10-02	1
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## 2014-10-30	4
## 2014-11-03	4
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## 2014-11-17	1
## 2014-11-19	1
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## 2014-12-02	3
## 2014-12-09	2
## 2014-12-11	2
## 2014-12-15	1
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## 2014-12-18	4
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## 2015-01-08	1
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## 2015-01-20	5
## 2015-01-23	5
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## 2015-02-23	5
## 2015-02-27	3
## 2015-03-03	3
## 2015-03-06	0
## 2015-03-09	0
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## 2015-03-11	8
## 2015-03-12	8
## 2015-03-16	8
## 2015-03-20	8
## 2015-03-23	0
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## 2015-04-06	0
## 2015-04-20	5
## 2015-04-23	5
## 2015-04-24	5
## 2015-05-01	1
## 2015-05-11	1
## 2015-05-14	1
## 2015-05-27	1
## 2015-06-01	2
## 2015-06-02	0
## 2015-06-10	2
## 2015-06-16	4
## 2015-06-22	4
## 2015-06-23	0
## 2015-06-24	0
## 2015-06-25	0
## 2015-06-29	1
## 2015-07-02	3
## 2015-07-08	3
## 2015-07-10	3
## 2015-07-14	0
## 2015-07-24	2
## 2015-07-28	2
## 2015-07-31	3

## 2015-08-07	2
## 2015-08-10	2
## 2015-08-17	3
## 2015-08-19	0
## 2015-08-24	0
## 2015-08-28	3
## 2015-09-02	3
## 2015-09-09	8
## 2015-09-15	8
## 2015-09-18	0
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## 2015-09-23	1
## 2015-09-24	0
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## 2015-10-12	4
## 2015-10-19	2
## 2015-10-28	0
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## 2015-11-06	0
## 2015-11-17	0
## 2015-11-18	1
## 2015-11-20	1
## 2015-11-23	1
## 2015-11-24	2
## 2015-11-27	2
## 2015-12-07	2
## 2015-12-11	0
## 2015-12-15	2
## 2015-12-16	2
## 2015-12-17	0
## 2015-12-21	4
## 2015-12-24	4
## 2015-12-30	0
## 2016-01-04	0
## 2016-01-05	1
## 2016-01-06	1
## 2016-01-11	2
## 2016-01-12	2
## 2016-01-13	1
## 2016-01-14	1
## 2016-01-15	4
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## 2016-02-04	2
## 2016-02-10	2
## 2016-02-12	6
## 2016-02-18	6
## 2016-02-29	2
## 2016-03-08	1
## 2016-03-16	1

## 2016-03-28	3
## 2016-04-11	5
## 2016-04-14	5
## 2016-05-04	0
## 2016-05-19	0
## 2016-05-24	2
## 2016-05-31	3
## 2016-06-09	4
## 2016-06-14	1
## 2016-06-16	3
## 2016-06-17	3
## 2016-06-20	3
## 2016-06-22	1
## 2016-06-29	4
## 2016-07-06	4
## 2016-07-07	4
## 2016-07-08	4
## 2016-07-11	4
## 2016-07-20	0
## 2016-07-21	1
## 2016-07-28	1
## 2016-08-02	0
## 2016-08-05	2
## 2016-08-09	1
## 2016-08-12	2
## 2016-08-15	2
## 2016-08-18	1
## 2016-08-24	3
## 2016-08-26	0
## 2016-08-31	0
## 2016-09-01	4
## 2016-09-14	1
## 2016-09-23	2
## 2016-10-06	2
## 2016-10-14	0
## 2016-10-24	0
## 2016-10-25	0
## 2016-10-27	3
## 2016-11-01	0
## 2016-11-02	0
## 2016-11-03	4
## 2016-11-08	4
## 2016-11-11	3
## 2016-11-16	2
## 2016-11-18	2
## 2016-11-23	2
## 2016-11-25	2
## 2016-11-29	1
## 2016-12-01	1
## 2016-12-07	2

## 2016-12-09	1
## 2016-12-12	3
## 2016-12-30	0
## 2017-01-05	4
## 2017-01-12	0
## 2017-01-18	1
## 2017-01-19	1
## 2017-01-25	3
## 2017-01-26	3
## 2017-02-08	3
## 2017-02-14	1
## 2017-02-24	4
## 2017-02-27	4
## 2017-03-06	0
## 2017-03-08	1
## 2017-03-13	0
## 2017-03-15	2
## 2017-03-20	0
## 2017-03-22	4
## 2017-03-27	4
## 2017-03-28	4
## 2017-03-30	1
## 2017-04-03	1
## 2017-04-05	6
## 2017-04-06	6
## 2017-04-10	6
## 2017-04-25	2
## 2017-04-28	0
## 2017-05-08	4
## 2017-05-09	4
## 2017-05-11	0
## 2017-05-19	6
## 2017-05-24	6
## 2017-05-25	6
## 2017-06-01	4
## 2017-06-09	0
## 2017-06-12	0
## 2017-06-13	0
## 2017-06-14	0
## 2017-06-16	1
## 2017-06-20	2
## 2017-06-22	2
## 2017-06-29	7
## 2017-07-05	7
## 2017-07-06	7
## 2017-07-07	7
## 2017-07-12	3
## 2017-07-17	0
## 2017-07-18	0
## 2017-07-25	1

## 2017-08-01	1
## 2017-08-15	0
## 2017-08-16	0
## 2017-08-17	0
## 2017-08-18	1
## 2017-08-24	1
## 2017-08-31	2
## 2017-09-01	2
## 2017-09-07	0
## 2017-09-12	3
## 2017-09-27	1
## 2017-09-28	1
## 2017-10-04	3
## 2017-10-06	1
## 2017-10-11	0
## 2017-10-13	1
## 2017-10-24	1
## 2017-10-26	0
## 2017-11-17	3
## 2017-11-24	0
## 2017-11-28	3
## 2017-11-30	3
## 2017-12-11	4
## 2017-12-15	3
## 2017-12-22	1
## 2017-12-27	1
## 2018-01-04	1
## 2018-01-11	3
## 2018-01-22	2
## 2018-01-23	2
## 2018-01-24	0
## 2018-01-30	1
## 2018-02-01	0
## 2018-02-08	0
## 2018-02-09	4
## 2018-02-14	4
## 2018-02-15	4
## 2018-02-21	5
## 2018-02-22	5
## 2018-03-07	6
## 2018-03-12	6
## 2018-03-13	0
## 2018-03-20	1
## 2018-03-26	1
## 2018-03-27	0
## 2018-03-29	1
## 2018-04-05	3
## 2018-04-18	1
## 2018-04-20	0
## 2018-04-23	0

## 2018-04-30	1
## 2018-05-02	0
## 2018-05-03	1
## 2018-05-07	1
## 2018-05-08	1
## 2018-05-11	2
## 2018-05-16	2
## 2018-05-17	0
## 2018-05-23	2
## 2018-06-05	1
## 2018-06-06	1
## 2018-06-19	1
## 2018-06-21	0
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## 2018-07-05	3
## 2018-07-06	3
## 2018-07-17	5
## 2018-07-26	2
## 2018-07-27	0
## 2018-08-01	0
## 2018-08-02	1
## 2018-08-03	1
## 2018-08-09	0
## 2018-08-27	2
## 2018-08-30	2
## 2018-09-04	2
## 2018-09-07	2
## 2018-09-20	7
## 2018-10-01	0
## 2018-10-02	1
## 2018-10-04	0
## 2018-10-18	0
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## 2018-11-07	1
## 2018-11-13	3
## 2018-11-14	3
## 2018-11-15	0
## 2018-11-19	0
## 2018-12-03	0
## 2018-12-10	3
## 2018-12-13	0
## 2018-12-14	0
## 2018-12-24	1
## 2018-12-27	0
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## 2019-01-10	0
## 2019-01-25	3
## 2019-01-31	3
## 2019-02-05	3
## 2019-02-22	3

## 2019-02-25	3
## 2019-03-01	0
## 2019-03-04	0
## 2019-03-06	0
## 2019-03-07	0
## 2019-03-13	2
## 2019-03-14	2
## 2019-03-20	1
## 2019-03-21	1
## 2019-03-22	0
## 2019-03-26	1
## 2019-03-27	1
## 2019-03-29	6
## 2019-04-10	2
## 2019-04-15	2
## 2019-04-22	2
## 2019-04-24	2
## 2019-04-29	2
## 2019-05-06	0
## 2019-05-07	0
## 2019-05-08	2
## 2019-05-10	2
## 2019-05-16	1
## 2019-05-22	0
## 2019-06-10	0
## 2019-06-14	0
## 2019-06-19	1
## 2019-06-21	1
## 2019-06-26	4
## 2019-07-10	3
## 2019-07-11	3
## 2019-07-19	0
## 2019-07-23	2
## 2019-08-05	0
## 2019-08-06	2
## 2019-08-07	2
## 2019-08-14	0
## 2019-08-16	2
## 2019-08-23	0
## 2019-09-06	9
## 2019-09-19	0
## 2019-09-26	0
## 2019-09-30	0
## 2019-10-03	1
## 2019-10-07	6
## 2019-10-08	6
## 2019-10-09	6
## 2019-10-10	6
## 2019-10-21	2
## 2019-10-22	4

```

## 2019-10-25      4
## 2019-10-28      4
## 2019-10-31      3
## 2019-11-01      3
## 2019-11-06      0
## 2019-11-07      0
## 2019-11-08      0
## 2019-11-14      2
## 2019-11-15      2
## 2019-11-19      1
## 2019-12-02      0
## 2019-12-05      1
## 2019-12-09      0
## 2019-12-10      0
## 2019-12-12      1
## 2019-12-13      2
## 2019-12-16      2
## 2019-12-18      3
## 2019-12-24      1
## 2019-12-26      1
## 2019-12-27      0
## 2020-01-13      5
## 2020-01-22      2
## 2020-01-23      2
## 2020-01-27      1
## 2020-02-07      4
## 2020-02-13      0
## 2020-02-14      0
## 2020-02-18      0
## 2020-02-21      0
## 2020-02-24      0
## 2020-02-25      0
## 2020-02-27      0
## 2020-03-06      0
## 2020-03-09      1
## 2020-03-11      0
## 2020-03-12      1
## 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
##
GLM
## 2005-09-28      0.853999999999997      1      0 -2.42070207540644e-
14
## 2005-10-07      1.046      1.8      1
0.9999999999999965

```

## 2005-10-10	1.05	1.4	1
1			
## 2005-10-14	1.052	1	1
0.999999999999974			
## 2005-10-19	0.035999999999994	0	0 -3.10904035067404e-
14			
## 2005-10-21	1.988	3.2	2
1.99999999999997			
## 2005-10-24	1.996	1.8	2
2			
## 2005-10-28	15	15	14.4
14.9999999999999			
## 2005-11-14	14.99	13.6	14.4
15			
## 2005-11-16	1.038	1.4	1
0.999999999999965			
## 2005-11-22	1.998	2.2	2
1.99999999999998			
## 2005-11-23	2.012	2	2
1.99999999999997			
## 2005-12-06	1.998	2.2	2
1.99999999999998			
## 2005-12-12	0.0299999999999932	0	0 -5.77731854528682e-
15			
## 2005-12-13	7.972	3.6	8.65116279069767
7.99999999999995			
## 2005-12-14	7.97	5.8	8.65116279069767
7.99999999999996			
## 2005-12-16	7.984	5.6	8.65116279069767
7.99999999999996			
## 2005-12-23	7.992	4.2	8.65116279069767
7.99999999999995			
## 2005-12-27	0.0119999999999932	0	0 -2.70936006180898e-
14			
## 2005-12-29	0.0419999999999933	0	0 -2.79817790377899e-
14			
## 2006-01-05	2.976	2.4	3
2.99999999999997			
## 2006-01-06	-7.8186346286202e-15	0	0 -3.15344927165904e-
14			
## 2006-01-09	0.00799999999999316	0	0 -4.66709552066166e-
15			
## 2006-01-19	0.0259999999999931	0	0 -2.59833775934647e-
14			
## 2006-01-23	1.996	3	2
2			
## 2006-01-24	2	1.4	2
1.99999999999997			
## 2006-01-26	0.025999999999993	0	0 -2.53172437786896e-
14			

## 2006-01-27	3.992	3	4
3.99999999999996			
## 2006-02-01	3.978	3.2	4
3.99999999999997			
## 2006-02-03	0.0099999999999204	0	0 -3.19785819264405e-14
## 2006-02-07	2	2	2
1.99999999999997			
## 2006-02-10	2.986	2.4	3
2.99999999999996			
## 2006-02-15	2.996	2.4	3
2.99999999999997			
## 2006-03-03	0.0059999999999211	0	0 -3.04242696919653e-14
## 2006-03-09	1	1.6	1
0.999999999999971			
## 2006-03-20	7	6.4	6.24242424242424
6.99999999999999			
## 2006-03-24	0.998	1.2	1
0.999999999999963			
## 2006-03-28	1.004	2	1
0.999999999999974			
## 2006-03-29	1.004	1.8	1
0.999999999999976			
## 2006-03-30	1	2	1
0.999999999999969			
## 2006-04-10	-6.95887791835048e-15	0	0 -1.11438184186116e-15
## 2006-04-11	-6.94910795573378e-15	0	0 -2.70936006180898e-14
## 2006-04-12	1	1	1
0.999999999999964			
## 2006-04-17	2	2.2	2
1.99999999999999			
## 2006-04-18	2	2.4	2
1.99999999999998			
## 2006-04-20	-6.99085234145969e-15	0	0 -2.75376898279399e-14
## 2006-04-27	4	3	4
3.99999999999997			
## 2006-05-02	5	3.8	5
4.99999999999997			
## 2006-05-05	5	4.2	5
4.99999999999996			
## 2006-05-12	1	1.6	1
0.999999999999964			
## 2006-05-25	2	2.2	2
1.99999999999998			
## 2006-05-31	1	2	1
0.999999999999968			

## 2006-06-02	-7.97584220890712e-15	0	0	-3.41990279756908e-14
## 2006-06-05	3.986	2	4	
3.999999999999998				
## 2006-06-06	3.992	3.8	4	
3.999999999999997				
## 2006-06-08	4	4.4	4	
3.999999999999997				
## 2006-06-12	-6.97752966516418e-15	0	0	3.32651025663947e-15
## 2006-06-19	5	4.4	5	
4.999999999999999				
## 2006-06-28	5	1.8	5	
4.999999999999995				
## 2006-06-30	5	3.6	5	
4.999999999999996				
## 2006-07-12	-6.90825174842757e-15	0	0	-3.13124481116654e-14
## 2006-07-13	-7.00772773143399e-15	0	0	-1.75456826063135e-14
## 2006-07-21	3	2.6	3	
2.999999999999996				
## 2006-07-24	3	3.6	3	
3				
## 2006-07-26	2.994	2.2	3	
2.999999999999997				
## 2006-07-27	1	2.2	1	
0.9999999999999977				
## 2006-07-28	1.006	1.4	1	
0.9999999999999973				
## 2006-08-01	2	1.8	2	
1.999999999999997				
## 2006-08-04	-7.89590615113411e-15	0	0	-2.77597344328649e-14
## 2006-08-09	-6.91802171104428e-15	0	0	-2.70936006180898e-14
## 2006-08-10	-7.05302483083869e-15	0	0	-2.57613329885396e-14
## 2006-08-21	0.996	1.4	1	
0.999999999999995				
## 2006-08-22	1	1.2	1	
0.9999999999999976				
## 2006-08-25	3	2.8	3	
2.999999999999996				
## 2006-08-31	-7.04325486822199e-15	0	0	-2.53172437786896e-14
## 2006-09-08	2	1.8	2	
1.999999999999997				
## 2006-09-15	-7.92077514688572e-15	0	0	-3.41990279756908e-14

## 2006-09-18	2	1.6	2
1.999999999999999			
## 2006-09-20	2	2.4	2
1.999999999999997			
## 2006-09-22	3	3.2	3
2.999999999999997			
## 2006-09-25	3	3.2	3
3			
## 2006-09-26	3	2.6	3
2.999999999999997			
## 2006-10-02	3	3.2	3
3			
## 2006-10-12	1.006	1	1
0.9999999999999979			
## 2006-10-16	-6.99174051987939e-15	0	0 -4.66709552066166e-15
15			
## 2006-10-17	5	2.6	5
4.999999999999996			
## 2006-10-18	5	4.6	5
4.999999999999997			
## 2006-10-27	1	1.2	1
0.9999999999999962			
## 2006-10-30	1	1.4	1
0.999999999999996			
## 2006-11-06	2	2.8	2
2			
## 2006-11-13	2	1	2
1.999999999999999			
## 2006-11-17	3	1.8	3
2.999999999999996			
## 2006-11-20	3	3.6	3
3			
## 2006-11-27	-6.83897383169096e-15	0.2	0 4.10366637387708e-15
15			
## 2006-12-08	2	3.2	2
1.999999999999997			
## 2006-12-14	-6.97397695148538e-15	0	0 -2.37629315442144e-14
14			
## 2006-12-15	-7.92876875266302e-15	0	0 -3.39769833707658e-14
14			
## 2006-12-27	2	2	2
1.999999999999997			
## 2007-01-04	2.004	2	2
1.999999999999997			
## 2007-01-08	-6.89936996423057e-15	0.2	0 -8.21980919946216e-15
15			
## 2007-01-12	1	1.4	1
0.9999999999999961			
## 2007-01-16	1	1.2	1
0.9999999999999974			

## 2007-01-17	-6.75104416814065e-15	0	0	-2.66495114082398e-14
## 2007-01-22	-6.92335078156248e-15	0.2	0	-5.55527394036178e-15
## 2007-01-24		2	2.2	2
1.99999999999998				
## 2007-01-31		2	2.2	2
1.99999999999997				
## 2007-02-01		2	1.6	2
1.99999999999997				
## 2007-02-05		1	1.2	1
0.99999999999998				
## 2007-02-06	-6.75903777391795e-15	0	0	-3.10904035067404e-14
## 2007-02-08		1	1.6	1
0.999999999999975				
## 2007-02-13		2.008	1.6	2
1.99999999999998				
## 2007-02-20	-6.51656506533982e-15	0.2	0	-2.50951991737645e-14
## 2007-02-23	0.0019999999999241	0	0	-3.06463142968903e-14
## 2007-03-01	-7.1134209633783e-15	0	0	-3.06463142968903e-14
## 2007-03-14		1	1.6	1
0.999999999999966				
## 2007-03-20		3	3.4	3
2.99999999999998				
## 2007-03-22	-6.94111434995648e-15	0	0	-2.22086193097391e-14
## 2007-03-23	-7.8204109854596e-15	0	0	-3.13124481116654e-14
## 2007-03-27	-6.74571509762245e-15	0.2	0	-2.66495114082398e-14
## 2007-03-28	-6.80788758700146e-15	0	0	-2.99801804821152e-14
## 2007-04-10	-6.94910795573378e-15	0	0	-2.53172437786896e-14
## 2007-04-18		3.976	2.6	4
3.99999999999997				
## 2007-04-19	-6.96154245360958e-15	0	0	-2.19865747048141e-14
## 2007-04-24	-6.78479494808926e-15	0.2	0	-2.53172437786896e-14
## 2007-04-26	-6.93489710101858e-15	0	0	-1.62134149767633e-14
## 2007-04-27	-7.8150819149414e-15	0	0	-2.50951991737645e-14
## 2007-04-30		1.012	0.2	1
0.99999999999993				

## 2007-05-03	1	1.6	1
0.999999999999968			
## 2007-05-07 -6.98552327094149e-15	0		0 -4.2230063108116e-15
## 2007-05-08 -6.96687152412778e-15	0		0 -2.73156452230149e-14
## 2007-05-09 -6.99529323355819e-15	0		0 -3.35328941609157e-14
## 2007-05-22	3	2.6	3
2.99999999999997			
## 2007-05-23	3	2.8	3
2.99999999999997			
## 2007-05-30	1.998	2.4	2
1.99999999999997			
## 2007-06-05 -6.90469903474877e-15	0		0 -2.64274668033147e-14
## 2007-06-07	1.014	1	1
0.999999999999977			
## 2007-06-12 -6.96420698886868e-15	0		0 -2.79817790377899e-14
## 2007-06-14	1	1.2	1
0.999999999999979			
## 2007-06-15 -7.94031507211912e-15	0		0 -3.10904035067404e-14
## 2007-06-29	5	4.8	5
4.99999999999995			
## 2007-07-02	5	4.8	5
4.99999999999999			
## 2007-07-06	5	5.4	5
4.99999999999996			
## 2007-07-11	2	2.2	2
1.99999999999997			
## 2007-07-13	2	1.8	2
1.99999999999996			
## 2007-07-31 -6.89492907213207e-15	0		0 -2.24306639146642e-14
## 2007-08-06	2	2.4	2
1.99999999999999			
## 2007-08-09 0.00199999999999295	0.2		0 -2.22086193097391e-14
## 2007-08-13	1	1.4	1
1			
## 2007-08-14 -6.87894186057747e-15	0		0 -2.70936006180898e-14
## 2007-08-20	3	3	3
3			
## 2007-08-22	3	2.2	3
2.99999999999996			
## 2007-08-23	1	1	1
0.999999999999971			

## 2007-08-29	4	2.4	4
3.99999999999997			
## 2007-09-04	3.994	1.8	4
3.99999999999997			
## 2007-09-06	-7.17026438223911e-15	0	0 -2.77597344328649e-14
## 2007-09-11	1.002	1.2	1
0.999999999999974			
## 2007-09-13	1.996	2.6	2
1.99999999999998			
## 2007-09-17	2	2.4	2
1.99999999999999			
## 2007-09-20	-7.17470527433761e-15	0	0 -2.70936006180898e-14
## 2007-09-27	-7.0885519676267e-15	0	0 -2.79817790377899e-14
## 2007-10-03	7	5.4	6.24242424242424
6.99999999999996			
## 2007-10-09	7	4.8	6.24242424242424
6.99999999999996			
## 2007-10-12	1	1.4	1
0.999999999999971			
## 2007-10-15	2	2.4	2
1.99999999999999			
## 2007-10-23	3	3.2	3
2.99999999999997			
## 2007-10-24	3	2.2	3
2.99999999999997			
## 2007-10-26	-8.01403388095423e-15	0	0 -3.46431171855409e-14
## 2007-10-29	1.008	1.6	1
0.999999999999991			
## 2007-11-07	-6.81943390645756e-15	0	0 -2.70936006180898e-14
## 2007-11-12	3	3.2	3
3			
## 2007-11-15	-7.19158066431191e-15	0	0 -2.70936006180898e-14
## 2007-11-16	-7.98827670678293e-15	0	0 -3.08683589018154e-14
## 2007-11-19	-6.97752966516418e-15	0	0 8.84019602464124e-16
## 2007-11-21	2	2.6	2
1.99999999999998			
## 2007-11-23	2	1.4	2
1.99999999999997			
## 2007-11-28	1	1	1
0.999999999999971			
## 2007-11-30	1.004	1	1
0.999999999999972			

## 2007-12-06	2	1.4	2
1.999999999999997			
## 2007-12-14 -7.91189336268872e-15	0		0 -3.35328941609157e-
14			
## 2007-12-20	3	3	3
2.999999999999998			
## 2007-12-21	1	1.2	1
0.9999999999999964			
## 2007-12-26 -6.15507644852187e-15	0		0 -2.48731545688395e-
14			
## 2007-12-28 -7.02549129982799e-15	0		0 -2.55392883836146e-
14			
## 2007-12-31 -6.22701890051758e-15	0		0 2.1788578768903e-
16			
## 2008-01-09	1.024	0.8	1
0.9999999999999971			
## 2008-01-14	3	2.6	3
3			
## 2008-01-18	1	1	1
0.9999999999999973			
## 2008-01-23	1	1	1
0.9999999999999971			
## 2008-01-24 -7.03526126244469e-15	0		0 -2.57613329885396e-
14			
## 2008-02-05	3	3	3
2.999999999999998			
## 2008-02-11 -6.96065427518988e-15	0		0 -6.44345236006191e-
15			
## 2008-02-20	1	1.4	1
0.9999999999999975			
## 2008-03-10 -6.86650736270167e-15	0		0 2.21628723201431e-
15			
## 2008-03-12 -6.73860967026485e-15	0		0 -2.26527085195892e-
14			
## 2008-03-17	4.978	2.2	5
4.999999999999999			
## 2008-03-24	5	4	5
4.999999999999999			
## 2008-04-03	4	3.8	4
3.999999999999998			
## 2008-04-07	4	3.8	4
4			
## 2008-04-09	1	1.2	1
0.9999999999999971			
## 2008-04-10	1	1.6	1
0.999999999999998			
## 2008-04-14 -6.95443702625198e-15	0		0 -3.77891710096153e-
15			
## 2008-04-30	0.998	1.4	1
0.9999999999999967			

## 2008-05-01	1	1.2	1
0.999999999999977			
## 2008-05-06 -6.94644342047468e-15	0		0 -2.46511099639145e-14
## 2008-05-07 -6.92690349524128e-15	0		0 -2.62054221983897e-14
## 2008-05-12 -6.95088431257318e-15	0		0 -5.33322933543675e-15
## 2008-05-13	3	2.4	3
2.99999999999996			
## 2008-05-14	3	3.2	3
2.99999999999997			
## 2008-05-15	3	3	3
2.99999999999998			
## 2008-05-16	2.998	1.4	3
2.99999999999997			
## 2008-05-22 -7.0814465402691e-15	0		0 -2.55392883836146e-14
## 2008-05-28	0.996	1.4	1
0.999999999999969			
## 2008-06-02	3.002	2.8	3
2.99999999999999			
## 2008-06-05	3.008	2.6	3
2.99999999999997			
## 2008-06-12	2.988	2.4	3
2.99999999999997			
## 2008-06-13	3	3.4	3
2.99999999999997			
## 2008-06-17	3	3.4	3
2.99999999999997			
## 2008-06-18	0.998	1.4	1
0.999999999999969			
## 2008-06-23 -6.42774722336981e-15	0.4		0 2.43833183693934e-15
## 2008-06-24	1	1	1
0.99999999999997			
## 2008-07-01 -6.60360655047043e-15	0		0 -2.68715560131648e-14
## 2008-07-03	2.998	2.8	3
2.99999999999998			
## 2008-07-16	3	3	3
2.99999999999996			
## 2008-07-21	2	2.2	2
1.99999999999999			
## 2008-07-31	5.992	4.8	6.24242424242424
5.99999999999997			
## 2008-08-07	4	3.8	4
3.99999999999998			
## 2008-08-08	4	3.8	4
3.99999999999996			

## 2008-08-11	4	3.4	4
4			
## 2008-08-12	3.998	3.2	4
3.999999999999997			
## 2008-08-13	-6.90913992684727e-15	0	0 -3.08683589018154e-
14			
## 2008-08-19	-6.85851375692437e-15	0	0 -1.93220394457137e-
14			
## 2008-08-21	1	1.4	1
0.9999999999999974			
## 2008-08-25	-6.95710156151108e-15	0	0 -5.99936315021185e-
15			
## 2008-08-29	3	3.6	3
2.999999999999997			
## 2008-09-04	1	1	1
0.9999999999999974			
## 2008-09-08	-6.96065427518988e-15	0	0 -4.88914012558669e-
15			
## 2008-09-12	2	1.8	2
1.999999999999997			
## 2008-09-15	1	1.2	1
0.999999999999991			
## 2008-10-02	-7.04414304664169e-15	0	0 -2.57613329885396e-
14			
## 2008-10-10	2	2.2	2
1.999999999999996			
## 2008-10-16	5	2.4	5
4.999999999999996			
## 2008-10-17	4.994	4.2	5
4.999999999999996			
## 2008-10-20	4.994	4.4	5
5			
## 2008-10-22	5	3.6	5
4.999999999999996			
## 2008-10-23	1	0.8	1
0.9999999999999977			
## 2008-10-30	3	2.6	3
2.999999999999997			
## 2008-11-03	2.988	2	3
2.999999999999999			
## 2008-11-05	-6.91269264052608e-15	0	0 -2.42070207540644e-
14			
## 2008-11-10	1.016	2	1
0.9999999999999993			
## 2008-11-11	0.998	1.2	1
0.999999999999998			
## 2008-11-18	-6.93578527943828e-15	0	0 -2.8203823642715e-
14			
## 2008-11-21	5	4.4	5
4.999999999999997			

## 2008-11-24	5	3.8	5
4.999999999999999			
## 2008-11-25	5	4.2	5
4.999999999999997			
## 2008-12-09	1	1	1
0.9999999999999976			
## 2008-12-15	2	2.4	2
1.999999999999999			
## 2008-12-22 -6.95266066941258e-15	0		0 -5.33322933543675e-15
15			
## 2008-12-24	1	1.2	1
0.9999999999999973			
## 2008-12-26 -7.89857068639321e-15	0		0 -3.28667603461406e-14
14			
## 2008-12-29	3	2.6	3
2.999999999999998			
## 2009-01-07	3	3	3
2.999999999999998			
## 2009-01-08	3	3.2	3
2.999999999999997			
## 2009-01-21	2	2.2	2
1.999999999999996			
## 2009-01-22	2.004	2.4	2
1.999999999999998			
## 2009-01-23	2	1.2	2
1.999999999999997			
## 2009-01-30	2	1.4	2
1.999999999999997			
## 2009-02-04 -6.82565115539546e-15	0		0 -3.02022250870403e-14
14			
## 2009-02-05	1	1	1
0.999999999999997			
## 2009-02-11	2	2.2	2
1.999999999999997			
## 2009-02-18 -6.83275658275306e-15	0		0 -2.53172437786896e-14
14			
## 2009-02-20	1.998	0.8	2
1.999999999999997			
## 2009-02-24	2.006	1.2	2
1.999999999999998			
## 2009-02-26 -7.01660951563099e-15	0		0 -2.62054221983897e-14
14			
## 2009-03-02 -6.78035405599076e-15	0		0 7.72997300001608e-16
16			
## 2009-03-04	1	1.2	1
0.9999999999999976			
## 2009-03-10	4	4.6	4
3.999999999999997			
## 2009-03-12	3.998	4.4	4
3.999999999999997			

## 2009-03-17	2	2.4	2
1.99999999999998			
## 2009-03-19 -6.77413680705285e-15	0.4		0 -2.08763516801889e-14
## 2009-03-31	4.998	5	5
4.99999999999997			
## 2009-04-07	2.996	2.8	3
2.99999999999997			
## 2009-04-09	2.998	2.8	3
2.99999999999998			
## 2009-04-20	3.986	4.4	4
3.99999999999999			
## 2009-04-21	4	4.2	4
3.99999999999997			
## 2009-04-23	4	4.4	4
3.99999999999997			
## 2009-04-30	3.994	3.2	4
3.99999999999996			
## 2009-05-12 -6.76170230917705e-15	0		0 -2.33188423343643e-14
## 2009-05-20 -6.51390053008072e-15	0		0 -2.70936006180898e-14
## 2009-05-28	2.946	1.6	3
2.99999999999997			
## 2009-05-29	2.996	3.4	3
2.99999999999997			
## 2009-06-01	3	3.8	3
3			
## 2009-06-02	3	2.6	3
2.99999999999997			
## 2009-06-08	1.016	1.2	1
0.999999999999995			
## 2009-06-11	1.996	2.4	2
1.99999999999998			
## 2009-06-12	1.996	1.8	2
1.99999999999997			
## 2009-06-16	1.998	2.6	2
1.99999999999998			
## 2009-06-19 -7.75379760398209e-15	0		0 -3.10904035067404e-14
## 2009-06-22 -6.77857769915136e-15	0		0 -2.44664947141135e-15
## 2009-06-26 -7.47402140177655e-15	0		0 -3.33108495559907e-14
## 2009-06-29	1.008	1.2	1
0.999999999999992			
## 2009-07-01	1.026	1.2	1
0.999999999999966			
## 2009-07-02	1	1.2	1
0.999999999999998			

## 2009-07-08	1.01	1	1
0.999999999999966			
## 2009-07-09	1	1	1
0.999999999999981			
## 2009-07-10	1.016	1	1
0.999999999999965			
## 2009-07-17	1.004	1	1
0.999999999999964			
## 2009-07-20	1	1	1
1			
## 2009-07-24	5.982	5	6.24242424242424
5.99999999999996			
## 2009-08-05	2	1.8	2
1.99999999999997			
## 2009-08-07	1.002	1	1
0.999999999999973			
## 2009-08-11	2.006	1.4	2
1.99999999999997			
## 2009-08-19	4.972	3.8	5
4.99999999999996			
## 2009-08-26	4.99	2.8	5
4.99999999999996			
## 2009-09-01	9.014	3.2	8.65116279069767
8.99999999999995			
## 2009-09-08	9.014	6.2	8.65116279069767
8.99999999999996			
## 2009-09-10	9.008	6.2	8.65116279069767
8.99999999999996			
## 2009-09-11	9.014	6	8.65116279069767
8.99999999999996			
## 2009-09-14	9.008	5.6	8.65116279069767
8.99999999999999			
## 2009-09-21	1.004	1	1
1			
## 2009-09-25	1.998	1.2	2
1.99999999999997			
## 2009-09-28	-6.90913992684727e-15	0	0 -4.44505091573663e-15
15			
## 2009-10-02	3	3.4	3
2.99999999999997			
## 2009-10-05	3	3.2	3
3			
## 2009-10-08	3	2.8	3
2.99999999999998			
## 2009-10-12	3	2.4	3
3			
## 2009-10-15	2.004	1.8	2
1.99999999999998			
## 2009-10-21	-6.79012401860746e-15	0	0 -2.42070207540644e-14
14			

## 2009-10-28	1.004	0.4	1
0.999999999999967			
## 2009-11-05	2.994	3	3
2.99999999999998			
## 2009-11-06	3	3.2	3
2.99999999999997			
## 2009-11-09	3.002	2.4	3
3			
## 2009-11-11	1.002	1.2	1
0.999999999999976			
## 2009-12-08	-6.91890988946398e-15	0	0 -2.59833775934647e-
14			
## 2009-12-17	0.003999999999993	0	0 -2.62054221983897e-
14			
## 2009-12-30	1	1.2	1
0.999999999999977			
## 2010-01-04	0.998	1.2	1
0.999999999999992			
## 2010-01-05	1	1.2	1
0.999999999999976			
## 2010-01-14	3	2.6	3
2.99999999999998			
## 2010-01-28	4	4.6	4
3.99999999999997			
## 2010-02-02	3.998	2.8	4
3.99999999999997			
## 2010-02-08	3	3	3
3			
## 2010-02-09	3	2	3
2.99999999999997			
## 2010-02-12	3	3.2	3
2.99999999999997			
## 2010-02-16	3.024	2.4	3
2.99999999999998			
## 2010-02-24	4	3.2	4
3.99999999999997			
## 2010-02-25	2	1.6	2
1.99999999999997			
## 2010-03-05	1	1	1
0.999999999999975			
## 2010-03-10	2	1.6	2
1.99999999999997			
## 2010-03-15	-6.95621338309138e-15	0	0 -3.5568724960365e-
15			
## 2010-03-16	-6.96509516728838e-15	0	0 -2.53172437786896e-
14			
## 2010-03-19	3	1.6	3
2.99999999999996			
## 2010-03-22	3	3	3
3			

## 2010-03-25	-7.02549129982799e-15	0	0	-2.75376898279399e-14
## 2010-03-30		2	1.6	2
1.99999999999997				
## 2010-04-06	-6.98108237884298e-15	0	0	-2.75376898279399e-14
## 2010-04-08		1	1.2	1
0.999999999999977				
## 2010-04-12		1.004	1.6	1
1				
## 2010-04-15	-7.0929928597252e-15	0	0	-2.64274668033147e-14
## 2010-04-28		2	3.2	2
1.99999999999997				
## 2010-04-29		2.004	1.6	2
1.99999999999998				
## 2010-04-30		1	1	1
0.999999999999965				
## 2010-05-05		1	1.2	1
0.999999999999976				
## 2010-05-07		1	1	1
0.999999999999963				
## 2010-05-14		1	1	1
0.999999999999963				
## 2010-05-18		1	1	1
0.99999999999997				
## 2010-05-19		1	1.2	1
0.999999999999974				
## 2010-05-20		1.002	1	1
0.999999999999973				
## 2010-05-21		1	1	1
0.999999999999973				
## 2010-05-26		4	3.8	4
3.99999999999997				
## 2010-05-27		3.996	4	4
3.99999999999998				
## 2010-06-03	-7.14184267280871e-15	0	0	-2.70936006180898e-14
## 2010-06-04	0.00599999999999204	0	0	-3.04242696919653e-14
## 2010-06-07		1	1.4	1
0.999999999999992				
## 2010-06-08		1	1	1
0.999999999999998				
## 2010-06-16		3	3.2	3
2.99999999999998				
## 2010-06-18	0.00599999999999203	0	0	-3.28667603461406e-14
## 2010-06-21	-6.95976609677018e-15	0	0	-3.77891710096153e-15

## 2010-06-23	1	1.4	1
0.999999999999976			
## 2010-06-24	-7.1294081749329e-15	0	0 -2.77597344328649e-
14			
## 2010-06-28	-6.95798973993078e-15	0	0 -5.33322933543675e-
15			
## 2010-06-30	2	2.6	2
1.99999999999998			
## 2010-07-06	2	1.8	2
1.99999999999997			
## 2010-07-07	2	3.2	2
1.99999999999997			
## 2010-07-08	2	1.8	2
1.99999999999998			
## 2010-07-12	1	1.2	1
0.999999999999992			
## 2010-07-16	0.00599999999999205	0	0 -3.28667603461406e-
14			
## 2010-07-19	5	2.8	5
4.99999999999998			
## 2010-07-21	5	4.4	5
4.99999999999997			
## 2010-08-20	-7.95719046209342e-15	0	0 -3.33108495559907e-
14			
## 2010-08-25	1.002	1.2	1
0.999999999999977			
## 2010-08-31	4	3.4	4
3.99999999999998			
## 2010-09-01	4	4	4
3.99999999999997			
## 2010-09-03	4.014	1.4	4
3.99999999999997			
## 2010-09-08	-6.94999613415348e-15	0	0 -3.10904035067404e-
14			
## 2010-09-17	2	2.2	2
1.99999999999996			
## 2010-09-21	2	1.6	2
1.99999999999998			
## 2010-09-22	-6.87805368215777e-15	0	0 -2.93140466673401e-
14			
## 2010-09-23	2	2	2
1.99999999999997			
## 2010-10-01	2	2.4	2
1.99999999999997			
## 2010-10-05	1	1	1
0.999999999999998			
## 2010-10-07	1	1.2	1
0.999999999999998			
## 2010-10-12	2	2.2	2
1.99999999999998			

## 2010-10-13	2	2	2
1.99999999999997			
## 2010-10-15	1	1	1
0.999999999999963			
## 2010-10-19	1	1.2	1
0.999999999999969			
## 2010-10-26	4	3.6	4
3.99999999999998			
## 2010-10-29 -7.97939492258593e-15	0		0 -3.41990279756908e-
14			
## 2010-11-08 -6.96864788096718e-15	0		0 -4.66709552066166e-
15			
## 2010-11-12	1	1	1
0.999999999999964			
## 2010-11-15	1	1	1
1			
## 2010-11-16	4	3.8	4
3.99999999999996			
## 2010-11-22	4	3.4	4
3.99999999999999			
## 2010-11-24	1	1	1
0.999999999999972			
## 2010-11-29 -6.96864788096718e-15	0		0 -4.2230063108116e-
15			
## 2010-12-06	1	1	1
1			
## 2010-12-10	1	1	1
0.999999999999975			
## 2010-12-17	2	1.2	2
1.99999999999996			
## 2010-12-21	2	1.4	2
1.99999999999998			
## 2010-12-28	2	2.4	2
1.99999999999998			
## 2011-01-04	4	3.8	4
3.99999999999996			
## 2011-01-10	4	3	4
3.99999999999999			
## 2011-01-24	4	4	4
4			
## 2011-01-31 -6.96154245360958e-15	0		0 -4.66709552066166e-
15			
## 2011-02-22 -6.96154245360958e-15	0		0 -2.42070207540644e-
14			
## 2011-02-23 -6.94289070679588e-15	0		0 -2.75376898279399e-
14			
## 2011-02-28	2	1.8	2
2			
## 2011-03-02	2	2.2	2
1.99999999999998			

## 2011-03-11	2	2.6	2
1.99999999999997			
## 2011-03-29	1	1.2	1
0.999999999999969			
## 2011-03-30	1.002	1.2	1
0.999999999999976			
## 2011-04-04	-6.96154245360958e-15	0	0 -4.88914012558669e-15
## 2011-04-06	-6.95177249099288e-15	0	0 -3.13124481116654e-14
## 2011-04-18	2	1.6	2
2			
## 2011-04-21	2	1.6	2
1.99999999999996			
## 2011-04-29	2	2.4	2
1.99999999999997			
## 2011-05-05	3	3.2	3
2.99999999999997			
## 2011-05-13	1	1	1
0.999999999999963			
## 2011-05-17	-6.87716550373807e-15	0	0 -2.8203823642715e-14
## 2011-05-19	1.028	2.6	1
0.99999999999998			
## 2011-05-25	-6.76969591495435e-15	0	0 -2.62054221983897e-14
## 2011-05-27	-7.8115292012626e-15	0	0 -2.97581358771902e-14
## 2011-06-01	1.006	0.2	1
0.999999999999968			
## 2011-06-02	1	1.4	1
0.999999999999979			
## 2011-06-03	-7.90123522165231e-15	0	0 -3.39769833707658e-14
## 2011-06-09	2	2.2	2
1.99999999999997			
## 2011-06-14	1	1.2	1
0.999999999999968			
## 2011-06-15	0.998	1.2	1
0.999999999999976			
## 2011-06-17	3	3	3
2.99999999999997			
## 2011-06-20	3	2.6	3
3			
## 2011-06-23	1	1.6	1
0.999999999999977			
## 2011-07-01	2	1.8	2
1.99999999999997			
## 2011-07-07	1.084	0	1
0.999999999999991			

## 2011-07-12	-6.09112760230346e-15	0	0	-1.68795487915384e-14
## 2011-07-13	0.00199999999999395	0	0	-2.1542485494964e-14
## 2011-07-18	-6.18971540689017e-15	0	0	7.32331314529003e-15
## 2011-07-19	-6.07958128284736e-15	0	0	-1.77677272112385e-14
## 2011-07-20	0.00199999999999396	0	0	-2.1320440890039e-14
## 2011-07-28	1.094	0	1	
0.999999999999998				
## 2011-08-02	1	1	1	
0.999999999999997				
## 2011-08-05	-7.91011700584932e-15	0	0	-3.50872063953909e-14
## 2011-08-18	-7.0778938265903e-15	0	0	-2.66495114082398e-14
## 2011-08-22	1	1.6	1	
0.999999999999989				
## 2011-08-23	1	1.4	1	
0.999999999999976				
## 2011-08-25	2	2.2	2	
1.99999999999997				
## 2011-08-26	1.998	2.2	2	
1.99999999999997				
## 2011-08-30	1	1.2	1	
0.999999999999967				
## 2011-09-08	-7.1294081749329e-15	0	0	-2.99801804821152e-14
## 2011-09-13	4	4.6	4	
3.99999999999997				
## 2011-10-06	3	2.4	3	
2.99999999999997				
## 2011-10-07	4	3.4	4	
3.99999999999995				
## 2011-10-13	4	3	4	
3.99999999999997				
## 2011-10-17	1	1.4	1	
0.99999999999999				
## 2011-10-19	1	1.4	1	
0.999999999999965				
## 2011-10-28	3.024	2.4	3	
2.99999999999997				
## 2011-11-01	-6.93134438733978e-15	0	0	-2.8203823642715e-14
## 2011-11-10	1	1.2	1	
0.999999999999969				
## 2011-11-14	-6.90292267790937e-15	0	0	-7.33163077976203e-15

## 2011-11-16	-6.86384282744257e-15	0	0	-3.13124481116654e-14
## 2011-11-29		5	4.8	5
4.99999999999997				
## 2011-12-09		2	2.2	2
1.99999999999997				
## 2011-12-13		3	2.4	3
2.99999999999997				
## 2011-12-15		3	3.4	3
2.99999999999998				
## 2011-12-23	-7.89857068639321e-15	0		0
14				-3.41990279756908e-14
## 2011-12-28	1.008	1		1
0.999999999999965				
## 2011-12-29		1	1	1
0.999999999999979				
## 2012-01-17		3	2.4	3
2.99999999999996				
## 2012-01-18		3	3.2	3
2.99999999999997				
## 2012-01-19		3	3.4	3
2.99999999999998				
## 2012-01-24		5	4.6	5
4.99999999999997				
## 2012-01-31		3	2.2	3
2.99999999999996				
## 2012-02-01		3	3	3
2.99999999999997				
## 2012-02-08	-6.98197055726268e-15	0		0
14				-3.37549387658408e-14
## 2012-02-09	-7.14450720806781e-15	0		0
14				-2.95360912722652e-14
## 2012-02-10		1	1.2	1
0.999999999999961				
## 2012-02-16		1	1.8	1
0.999999999999979				
## 2012-03-01		1	1.6	1
0.999999999999966				
## 2012-03-02		1	1.2	1
0.999999999999971				
## 2012-03-12		3	3.2	3
2.99999999999998				
## 2012-03-13		3	3	3
2.99999999999998				
## 2012-03-16		2	1.6	2
1.99999999999996				
## 2012-03-19		2	2	2
2				
## 2012-03-23		2	2.2	2
1.99999999999997				

## 2012-03-30 -7.86659626328401e-15	0	0 -3.37549387658408e-14
## 2012-04-05 -7.14273085122841e-15	0	0 -2.97581358771902e-14
## 2012-04-09 -6.95088431257318e-15	0	0 -7.99776459453713e-15
## 2012-04-10	2 1.6	2
1.999999999999997		
## 2012-04-13	4 3.2	4
3.999999999999995		
## 2012-04-17	4 3.8	4
3.999999999999998		
## 2012-04-20 -7.87903076115981e-15	0	0 -3.48651617904659e-14
## 2012-04-23	4 3.8	4
3.999999999999998		
## 2012-04-25	4 3.6	4
3.999999999999997		
## 2012-04-27	4 2.8	4
3.999999999999996		
## 2012-04-30 -6.93312074417918e-15	0	0 -7.7757199896121e-15
## 2012-05-04	1 1.2	1
0.9999999999999961		
## 2012-05-25	6 4.6 6.24242424242424	
5.999999999999996		
## 2012-06-05	2 2.2	2
1.999999999999998		
## 2012-06-26	3 3.2	3
2.999999999999998		
## 2012-06-27	3 3.2	3
2.999999999999997		
## 2012-06-28	3 2.6	3
2.999999999999997		
## 2012-07-19 -7.0867756107873e-15	0	0 -2.37629315442144e-14
## 2012-07-25	2 2	2
1.999999999999996		
## 2012-07-27	2 2.2	2
1.999999999999997		
## 2012-07-30	1 1.2	1
0.999999999999999		
## 2012-07-31	1 1	1
0.9999999999999978		
## 2012-08-06 -6.93312074417918e-15	0	0 -7.109586174837e-15
## 2012-08-07	1 1.2	1
0.9999999999999971		
## 2012-08-14	1 1.6	1
0.9999999999999968		

## 2012-08-17	4	4	4
3.999999999999997			
## 2012-08-20	4	3.8	4
4			
## 2012-08-23	1	1.2	1
0.9999999999999971			
## 2012-08-28	-6.98019420042328e-15	0	0 -2.79817790377899e-
14			
## 2012-08-29	-6.98197055726268e-15	0	0 -3.13124481116654e-
14			
## 2012-08-30	1	1.4	1
0.9999999999999968			
## 2012-09-10	-6.93667345785798e-15	0	0 -6.66549696498694e-
15			
## 2012-09-13	-7.02815583508709e-15	0	0 -2.68715560131648e-
14			
## 2012-09-27	4	3.8	4
3.999999999999996			
## 2012-10-09	1	1.2	1
0.9999999999999969			
## 2012-10-12	5	4.6	5
4.999999999999997			
## 2012-10-16	5	4.6	5
4.999999999999997			
## 2012-10-31	2	2	2
1.999999999999998			
## 2012-11-14	1	1.4	1
0.9999999999999967			
## 2012-11-16	1.998	2.4	2
1.999999999999996			
## 2012-11-26	2	2.2	2
2			
## 2012-11-30	-7.94830867789642e-15	0	0 -3.41990279756908e-
14			
## 2012-12-03	-6.94733159889438e-15	0	0 -5.55527394036178e-
15			
## 2012-12-05	4	3.8	4
3.999999999999996			
## 2012-12-12	1	1.2	1
0.9999999999999964			
## 2012-12-17	3	2.8	3
2.999999999999998			
## 2012-12-18	3	3.2	3
2.999999999999998			
## 2012-12-21	-7.94297960737822e-15	0	0 -3.30888049510657e-
14			
## 2012-12-26	-6.96953605938688e-15	0	0 -3.17565373215155e-
14			
## 2012-12-31	2	2.2	2
2			

## 2013-01-03	3	2.8	3
2.999999999999996			
## 2013-01-04	3	2.8	3
2.999999999999997			
## 2013-01-10	1	1.4	1
0.9999999999999979			
## 2013-01-11 -7.96696042471012e-15	0		0 -3.37549387658408e-
14			
## 2013-01-14 -6.95621338309138e-15	0		0 -7.109586174837e-
15			
## 2013-01-22	2	2.6	2
1.999999999999998			
## 2013-01-29 -6.95887791835048e-15	0		0 -2.55392883836146e-
14			
## 2013-02-05	3	3	3
2.999999999999998			
## 2013-02-06	3	3.4	3
2.999999999999997			
## 2013-02-21	2	2	2
1.999999999999998			
## 2013-02-25	12.988	6.2	14.4
13			
## 2013-02-26	12.994	13.2	14.4
13			
## 2013-02-27	12.988	11.4	14.4
13			
## 2013-03-04	12.994	12	14.4
13			
## 2013-03-07	12.994	11.6	14.4
13			
## 2013-03-08	12.988	11.6	14.4
12.999999999999999			
## 2013-03-11	12.994	12	14.4
13			
## 2013-03-12	12.994	13.2	14.4
13			
## 2013-03-18	3	3.2	3
3			
## 2013-04-09	2	2	2
1.999999999999997			
## 2013-04-10	2	2.2	2
1.999999999999998			
## 2013-04-16	2	2.4	2
1.999999999999998			
## 2013-04-17	2	2	2
1.999999999999997			
## 2013-04-19 -7.97406585206772e-15	0		0 -3.50872063953909e-
14			
## 2013-04-23	2	2.4	2
1.999999999999998			

## 2013-04-24	2	1.8	2
1.99999999999997			
## 2013-04-30	3	3.2	3
2.99999999999997			
## 2013-05-09	3	3	3
2.99999999999998			
## 2013-05-15	3	3.4	3
2.99999999999997			
## 2013-05-20 -6.98374691410209e-15	0		0 -4.88914012558669e-15
15			
## 2013-05-24	2	1.4	2
1.99999999999997			
## 2013-05-30 -7.18891612905281e-15	0		0 -2.79817790377899e-14
14			
## 2013-06-04 -6.99262869829909e-15	0		0 -2.90920020624151e-14
14			
## 2013-06-10	2	2	2
2			
## 2013-06-12	1	1	1
0.999999999999963			
## 2013-06-14	2	1.8	2
1.99999999999996			
## 2013-06-18	2	1	2
1.99999999999998			
## 2013-06-20 -7.15516534910421e-15	0		0 -2.73156452230149e-14
14			
## 2013-06-21 -7.94653232105702e-15	0		0 -3.28667603461406e-14
14			
## 2013-06-25	1	1.4	1
0.999999999999979			
## 2013-07-02	4	2.6	4
3.99999999999996			
## 2013-07-10	5	3.6	5
4.99999999999995			
## 2013-07-12	5	4.6	5
4.99999999999997			
## 2013-07-16	5	4.2	5
4.99999999999997			
## 2013-07-19 -7.98028310100562e-15	0		0 -3.37549387658408e-14
14			
## 2013-07-23	4	2.4	4
3.99999999999996			
## 2013-07-30	2	2	2
1.99999999999997			
## 2013-08-07	1	1	1
0.999999999999964			
## 2013-08-08	1	1.2	1
0.99999999999998			
## 2013-08-21	3	3	3
2.99999999999998			

## 2013-08-26	1	1	1
1			
## 2013-08-29	5	4.6	5
4.99999999999997			
## 2013-09-10	2	2.2	2
1.99999999999998			
## 2013-09-12	3	2.4	3
2.99999999999996			
## 2013-09-17	3	3.2	3
2.99999999999997			
## 2013-09-23	3	2.8	3
2.99999999999999			
## 2013-10-03	4	4.4	4
3.99999999999997			
## 2013-10-15	5	4	5
4.99999999999996			
## 2013-10-22	5	3.4	5
4.99999999999997			
## 2013-10-23	1	1.4	1
0.999999999999967			
## 2013-10-25 -7.93942689369942e-15	0		0 -3.22006265313655e-14
14			
## 2013-10-30	2	1.8	2
1.99999999999997			
## 2013-10-31	2	2	2
1.99999999999997			
## 2013-11-08	3	2.8	3
2.99999999999997			
## 2013-11-14	3	3.4	3
2.99999999999998			
## 2013-11-20 -7.03614944086439e-15	0		0 -3.19785819264405e-14
14			
## 2013-11-22	0.998	1.2	1
0.999999999999973			
## 2013-11-26	1	1.2	1
0.99999999999997			
## 2013-11-29 -7.99360577730113e-15	0		0 -3.19785819264405e-14
14			
## 2013-12-10	5	3.8	5
4.99999999999997			
## 2013-12-19	1	1.4	1
0.999999999999969			
## 2013-12-23	1	1.2	1
0.999999999999991			
## 2014-01-06	4	3	4
3.99999999999999			
## 2014-01-17	5	4.8	5
4.99999999999997			
## 2014-01-21	5	4.8	5
4.99999999999997			

## 2014-01-22	5	4.8	5
4.999999999999997			
## 2014-01-23	5	3.6	5
4.999999999999997			
## 2014-01-27	3	3	3
2.999999999999999			
## 2014-01-30	3	2.6	3
2.999999999999997			
## 2014-02-03	2	2.6	2
2			
## 2014-02-11 -7.02193858614919e-15	0		0 -2.79817790377899e-14
14			
## 2014-02-21	5	5	5
4.999999999999997			
## 2014-02-25	5	4.4	5
4.999999999999997			
## 2014-02-26 -6.98641144936118e-15	0		0 -3.28667603461406e-14
14			
## 2014-03-03	4	2.8	4
3.999999999999998			
## 2014-03-06	4	4	4
3.999999999999997			
## 2014-03-07	3.958	3.2	4
3.999999999999997			
## 2014-03-12 -7.04325486822199e-15	0		0 -3.06463142968903e-14
14			
## 2014-03-18 -7.03082037034619e-15	0		0 -2.79817790377899e-14
14			
## 2014-03-19 -7.05124847399929e-15	0		0 -3.24226711362906e-14
14			
## 2014-03-24	2	2.6	2
2			
## 2014-03-25	1.998	1.4	2
1.999999999999997			
## 2014-03-28	2	1.4	2
1.999999999999996			
## 2014-03-31	2	2.8	2
2			
## 2014-04-01	1.998	1.4	2
1.999999999999997			
## 2014-04-04 -8.02291566515123e-15	0		0 -3.26447157412156e-14
14			
## 2014-04-07	2	1.6	2
1.999999999999999			
## 2014-04-16	2	1.4	2
1.999999999999997			
## 2014-04-22	4	3.6	4
3.999999999999997			
## 2014-04-28	1	1.2	1
0.999999999999992			

## 2014-05-01	8	6.8	8.65116279069767	
7.99999999999996				
## 2014-05-02	8	8.4	8.65116279069767	
7.99999999999996				
## 2014-05-06	8	7	8.65116279069767	
7.99999999999997				
## 2014-05-15	2	1.6		2
1.99999999999997				
## 2014-05-16	2	2.4		2
1.99999999999997				
## 2014-05-19	2	1.6		2
2				
## 2014-05-20	10	5.8	8.65116279069767	
9.99999999999995				
## 2014-05-22	10	8	8.65116279069767	
9.99999999999996				
## 2014-06-02	10	7	8.65116279069767	
9.99999999999998				
## 2014-06-03	10	7.4	8.65116279069767	
9.99999999999996				
## 2014-06-09	1	1.2		1
0.999999999999991				
## 2014-06-12	6	4.4	6.24242424242424	
5.99999999999996				
## 2014-06-13	5.988	6.2	6.24242424242424	
5.99999999999997				
## 2014-06-17	6	5.6	6.24242424242424	
5.99999999999997				
## 2014-06-26	2	1.6		2
1.99999999999998				
## 2014-06-27 -7.97140131680862e-15		0		0 -3.30888049510657e-14
14				
## 2014-06-30	1	1.2		1
0.999999999999993				
## 2014-07-16 -6.98197055726268e-15		0		0 -3.24226711362906e-14
14				
## 2014-07-17	1	1		1
0.999999999999973				
## 2014-07-21 -6.98729962778089e-15		0		0 -5.33322933543675e-15
15				
## 2014-07-22	1.01	1.2		1
0.999999999999968				
## 2014-08-04 -6.98374691410209e-15		0		0 -2.44664947141135e-15
15				
## 2014-08-08	2	2.4		2
1.99999999999998				
## 2014-08-11	2	1.6		2
2				
## 2014-08-21	1	1.4		1
0.999999999999972				

## 2014-08-22	1	1.2	1
0.999999999999973			
## 2014-08-27	1	1	1
0.999999999999964			
## 2014-08-29	1	1	1
0.999999999999964			
## 2014-09-18	1.006	1	1
0.999999999999978			
## 2014-09-24	1	1	1
0.999999999999974			
## 2014-09-25	1	1.4	1
0.999999999999971			
## 2014-09-26	1	1	1
0.999999999999973			
## 2014-09-29	1	1	1
0.999999999999994			
## 2014-10-01 -6.98019420042328e-15	0		0 -2.93140466673401e-14
## 2014-10-02	1	1	1
0.999999999999969			
## 2014-10-07 -6.96243063202928e-15	0		0 -2.39849761491394e-14
## 2014-10-10 -7.94475596421762e-15	0		0 -2.8203823642715e-14
## 2014-10-13	5.97	3.8	6.24242424242424
5.99999999999999			
## 2014-10-30	4	3.4	4
3.99999999999998			
## 2014-11-03	4	3.8	4
4			
## 2014-11-13	1	1	1
0.999999999999977			
## 2014-11-17	1	1.2	1
0.999999999999999			
## 2014-11-19	1	1	1
0.999999999999966			
## 2014-11-28	3	2.8	3
2.99999999999996			
## 2014-12-02	3	2.2	3
2.99999999999996			
## 2014-12-09	2	2.2	2
1.99999999999997			
## 2014-12-11	2	2	2
1.99999999999997			
## 2014-12-15	1	1	1
0.999999999999999			
## 2014-12-17	4	4	4
3.99999999999997			
## 2014-12-18	4	3.8	4
3.99999999999997			

## 2015-01-02	6	5.2	6.24242424242424
5.99999999999996			
## 2015-01-06 -6.98019420042328e-15	0		0 -2.77597344328649e-14
## 2015-01-07	1	1	1
0.999999999999962			
## 2015-01-08	1	1.2	1
0.999999999999977			
## 2015-01-13	1	1.2	1
0.999999999999977			
## 2015-01-15	5	4.6	5
4.99999999999996			
## 2015-01-20	5	4.8	5
4.99999999999996			
## 2015-01-23	5	4.2	5
4.99999999999996			
## 2015-01-29	1	1.2	1
0.999999999999974			
## 2015-01-30 -7.99893484781933e-15	0		0 -2.62054221983897e-14
## 2015-02-02 -6.99085234145969e-15	0		0 -6.44345236006191e-15
## 2015-02-03	1	1.4	1
0.999999999999971			
## 2015-02-05 -7.19513337799072e-15	0		0 -2.77597344328649e-14
## 2015-02-11	2	2	2
1.99999999999996			
## 2015-02-18	5	5.6	5
4.99999999999997			
## 2015-02-23	5	5	5
5			
## 2015-02-27	3	2.6	3
2.99999999999996			
## 2015-03-03	3	3	3
2.99999999999998			
## 2015-03-06 -8.00159938307843e-15	0		0 -3.33108495559907e-14
## 2015-03-09 -6.98197055726268e-15	0		0 -6.22140775513688e-15
## 2015-03-10	8	5.4	8.65116279069767
7.99999999999995			
## 2015-03-11	8	7.4	8.65116279069767
7.99999999999996			
## 2015-03-12	8	7.2	8.65116279069767
7.99999999999996			
## 2015-03-16	8	6.6	8.65116279069767
7.99999999999999			
## 2015-03-20	8	6	8.65116279069767
7.99999999999995			

## 2015-03-23	-6.94733159889438e-15	0	0	-2.89073868126141e-15
## 2015-03-30	1.994	1.4	2	
## 2015-04-06	-6.98907598462029e-15	0	0	-2.44664947141135e-15
## 2015-04-20	5	5.6	5	
## 2015-04-23	5	5.2	5	
## 2015-04-24	5	4	5	
## 2015-05-01	1	1	1	
## 2015-05-11	1	1.2	1	
## 2015-05-14	1	1.2	1	
## 2015-05-27	1	1	1	
## 2015-06-01	1.986	1.8	2	
## 2015-06-02	-6.98197055726268e-15	0	0	-2.64274668033147e-14
## 2015-06-10	2	1.6	2	
## 2015-06-16	4	3.6	4	
## 2015-06-22	3.98	3.2	4	
## 2015-06-23	-6.98463509252178e-15	0	0	-2.62054221983897e-14
## 2015-06-24	-7.03792579770379e-15	0	0	-2.97581358771902e-14
## 2015-06-25	-7.1107564281192e-15	0	0	-2.70936006180898e-14
## 2015-06-29	1.018	1.6	1	
## 2015-07-02	3	3.4	3	
## 2015-07-08	3	3.4	3	
## 2015-07-10	3	3.2	3	
## 2015-07-14	-7.01128044511279e-15	0	0	-2.75376898279399e-14
## 2015-07-24	2	1.8	2	
## 2015-07-28	1.998	1.2	2	

## 2015-07-31	3	2.6	3
2.999999999999996			
## 2015-08-07	2	2	2
1.999999999999996			
## 2015-08-10	2	2.6	2
2			
## 2015-08-17	2.98	2.6	3
3			
## 2015-08-19 -6.98197055726268e-14		0	0 -3.02022250870403e-
14			
## 2015-08-24 -6.95443702625198e-15		0	0 3.10446565171444e-
15			
## 2015-08-28	3	2.2	3
2.999999999999996			
## 2015-09-02	3	2.8	3
2.999999999999996			
## 2015-09-09	8	8.4 8.65116279069767	
7.999999999999996			
## 2015-09-15	8	7.2 8.65116279069767	
7.999999999999997			
## 2015-09-18 -8.03357380618763e-14		0	0 -3.24226711362906e-
14			
## 2015-09-22	1	1.2	1
0.9999999999999975			
## 2015-09-23	1	1.2	1
0.9999999999999976			
## 2015-09-24 -7.22089055216202e-14		0	0 -2.48731545688395e-
14			
## 2015-10-08	4	3.6	4
3.999999999999998			
## 2015-10-12	4	4	4
3.999999999999999			
## 2015-10-19	2	2.2	2
2			
## 2015-10-28 -7.05124847399929e-14		0	0 -3.08683589018154e-
14			
## 2015-10-29	3	1.8	3
2.999999999999996			
## 2015-11-06 -7.03082037034619e-14		0	0 -2.57613329885396e-
14			
## 2015-11-17 -6.19060358530987e-14		0	0 -1.93220394457137e-
14			
## 2015-11-18	1.036	0	1
0.9999999999999973			
## 2015-11-20	1	1	1
0.9999999999999963			
## 2015-11-23	1	1.2	1
1			
## 2015-11-24	2	2	2
1.999999999999997			

## 2015-11-27	2	1.2	2
1.999999999999997			
## 2015-12-07	2	2.2	2
2			
## 2015-12-11	-7.94120325053882e-15	0	0 -2.842586824764e-14
## 2015-12-15	2	2	2
1.999999999999998			
## 2015-12-16	2	2.2	2
1.999999999999997			
## 2015-12-17	-7.1196382123162e-15	0	0 -2.64274668033147e-14
## 2015-12-21	4	3.4	4
3.999999999999999			
## 2015-12-24	4	2.6	4
3.999999999999997			
## 2015-12-30	-7.05124847399929e-15	0	0 -3.02022250870403e-14
## 2016-01-04	-6.99440505513849e-15	0	0 -1.11438184186116e-15
## 2016-01-05	1	1	1
0.999999999999997			
## 2016-01-06	1	1	1
0.9999999999999974			
## 2016-01-11	2	2.4	2
2			
## 2016-01-12	2	2.2	2
1.999999999999998			
## 2016-01-13	1	1	1
0.9999999999999971			
## 2016-01-14	1	1	1
0.999999999999998			
## 2016-01-15	4	3	4
3.999999999999996			
## 2016-01-25	2	2	2
1.999999999999999			
## 2016-01-29	2	2	2
1.999999999999997			
## 2016-02-04	2	1.8	2
1.999999999999998			
## 2016-02-10	2	1.8	2
1.999999999999997			
## 2016-02-12	6	5.4	6.24242424242424
5.999999999999996			
## 2016-02-18	6	5.6	6.24242424242424
5.999999999999997			
## 2016-02-29	2	2.6	2
2.000000000000001			
## 2016-03-08	1	1	1
0.9999999999999974			

## 2016-03-16 0.999999999999977	1 1	1
## 2016-03-28 3	3 2.8	3
## 2016-04-11 5	5 4.8	5
## 2016-04-14 4.99999999999997	5 3.2	5
## 2016-05-04 -6.98019420042328e-15 14	0	0 -2.64274668033147e-
## 2016-05-19 -7.22444326584082e-15 14	0	0 -2.44290653589894e-
## 2016-05-24 1.99999999999998	2 2.2	2
## 2016-05-31 2.99999999999998	3 3.2	3
## 2016-06-09 3.99999999999997	4 3.8	4
## 2016-06-14 0.999999999999975	1 1	1
## 2016-06-16 2.99999999999997	3 2.4	3
## 2016-06-17 2.99999999999998	3 3	3
## 2016-06-20 3	3 3.2	3
## 2016-06-22 0.999999999999968	1 1	1
## 2016-06-29 3.99999999999997	4 4	4
## 2016-07-06 3.99999999999996	4 3.4	4
## 2016-07-07 3.99999999999998	4 3.8	4
## 2016-07-08 3.99999999999997	4 3.4	4
## 2016-07-11 4	4 3.4	4
## 2016-07-20 -7.04680758190079e-15 14	0	0 -3.04242696919653e-
## 2016-07-21 0.999999999999973	1 1.2	1
## 2016-07-28 0.999999999999983	1 1	1
## 2016-08-02 -6.90825174842757e-15 14	0	0 -1.90999948407887e-
## 2016-08-05 1.99999999999997	2 1.4	2
## 2016-08-09 0.999999999999983	1 1	1

## 2016-08-12	2	1.6	2
1.999999999999996			
## 2016-08-15	2	2.4	2
2			
## 2016-08-18	1	1	1
0.9999999999999982			
## 2016-08-24	3	3	3
2.999999999999998			
## 2016-08-26 -7.96518406787072e-15	0		0 -3.04242696919653e-14
## 2016-08-31 -6.98374691410209e-15	0		0 -2.8203823642715e-14
## 2016-09-01	4	3	4
3.999999999999996			
## 2016-09-14	1	1.4	1
0.9999999999999969			
## 2016-09-23	2	1	2
1.999999999999997			
## 2016-10-06	2	1.8	2
1.999999999999998			
## 2016-10-14 -7.96340771103132e-15	0		0 -3.10904035067404e-14
## 2016-10-24 -6.97397695148538e-15	0		0 -3.33482789111147e-15
## 2016-10-25 -6.98374691410209e-15	0		0 -2.55392883836146e-14
## 2016-10-27	3	3.4	3
2.999999999999998			
## 2016-11-01 -7.01927405089009e-15	0		0 -2.48731545688395e-14
## 2016-11-02 -7.05036029557959e-15	0		0 -3.13124481116654e-14
## 2016-11-03	4	3.6	4
3.999999999999996			
## 2016-11-08	4	3.8	4
3.999999999999998			
## 2016-11-11	3	3.2	3
2.999999999999997			
## 2016-11-16	2	1.6	2
1.999999999999996			
## 2016-11-18	2	1.2	2
1.999999999999997			
## 2016-11-23	2	2	2
1.999999999999998			
## 2016-11-25	2	1.2	2
1.999999999999997			
## 2016-11-29	1	1.2	1
0.999999999999998			
## 2016-12-01	1	1	1
0.9999999999999971			

## 2016-12-07	2	1.4	2
1.99999999999997			
## 2016-12-09	1	1	1
0.999999999999971			
## 2016-12-12	3	2.8	3
2.99999999999999			
## 2016-12-30 -7.99538213414053e-15	0		0 -3.10904035067404e-14
14			
## 2017-01-05	4	2.6	4
3.99999999999996			
## 2017-01-12 -7.19424519957101e-15	0		0 -2.62054221983897e-14
14			
## 2017-01-18	1	1.2	1
0.999999999999975			
## 2017-01-19	1	1	1
0.999999999999971			
## 2017-01-25	3	3	3
2.99999999999998			
## 2017-01-26	2.992	2.2	3
2.99999999999997			
## 2017-02-08	3	2.6	3
2.99999999999996			
## 2017-02-14	1	1.2	1
0.999999999999972			
## 2017-02-24	4	4	4
3.99999999999997			
## 2017-02-27	4	3.2	4
4			
## 2017-03-06 -6.97752966516418e-15	0		0 -1.11438184186116e-15
15			
## 2017-03-08	1	1.2	1
0.999999999999978			
## 2017-03-13 -6.98285873568238e-15	0		0 -4.48248027086064e-16
16			
## 2017-03-15	2	2	2
1.99999999999998			
## 2017-03-20 -6.97397695148538e-15	0		0 -4.44505091573663e-15
15			
## 2017-03-22	4	2.6	4
3.99999999999996			
## 2017-03-27	4	3.6	4
4			
## 2017-03-28	4	3.2	4
3.99999999999997			
## 2017-03-30	1	1	1
0.999999999999981			
## 2017-04-03	1	1	1
1			
## 2017-04-05	6	6.2	6.24242424242424
5.99999999999997			

## 2017-04-06	6	6	6.24242424242424	
5.99999999999997				
## 2017-04-10	6	6	6.24242424242424	
5.99999999999999				
## 2017-04-25	2	1.8		2
1.99999999999998				
## 2017-04-28 -7.99449395572083e-14		0		0 -2.77597344328649e-14
## 2017-05-08	4	3.2		4
4				
## 2017-05-09	4	3.4		4
3.99999999999997				
## 2017-05-11 -7.1045391791813e-14		0		0 -2.50951991737645e-14
## 2017-05-19	6	6.2	6.24242424242424	
5.99999999999997				
## 2017-05-24	6	6	6.24242424242424	
5.99999999999997				
## 2017-05-25	6	5.2	6.24242424242424	
5.99999999999997				
## 2017-06-01	4	3.4		4
3.99999999999998				
## 2017-06-09 -7.91544607636752e-14		0		0 -2.70936006180898e-14
## 2017-06-12 -6.94644342047468e-15		0		0 1.06863485226514e-16
## 2017-06-13 -6.88693546635477e-15		0		0 -2.44290653589894e-14
## 2017-06-14 -6.94200252837618e-15		0		0 -2.88699574574901e-14
## 2017-06-16	1.002	0.4		1
0.999999999999967				
## 2017-06-20	2	1.6		2
1.99999999999997				
## 2017-06-22	2	2.4		2
1.99999999999998				
## 2017-06-29	7	6.8	6.24242424242424	
6.99999999999997				
## 2017-07-05	7	7.2	6.24242424242424	
6.99999999999996				
## 2017-07-06	7	6.8	6.24242424242424	
6.99999999999997				
## 2017-07-07	7	5.8	6.24242424242424	
6.99999999999996				
## 2017-07-12	3	3		3
2.99999999999997				
## 2017-07-17 0.00199999999999322		0		0 -6.70292632011095e-16
## 2017-07-18 -6.71640520977235e-15		0		0 -2.17645300998891e-14

## 2017-07-25	1.012	0.8	1
0.999999999999975			
## 2017-08-01	1	1.2	1
0.999999999999981			
## 2017-08-15	-6.98019420042328e-15	0	0 -2.55392883836146e-14
## 2017-08-16	-7.00328683933549e-15	0	0 -3.04242696919653e-14
## 2017-08-17	-7.15605352752391e-15	0	0 -1.93220394457137e-14
## 2017-08-18	1	1.2	1
0.999999999999966			
## 2017-08-24	1	1	1
0.999999999999973			
## 2017-08-31	2	2.2	2
1.999999999999998			
## 2017-09-01	2	1	2
1.999999999999997			
## 2017-09-07	-7.13473724545111e-15	0	0 -2.55392883836146e-14
## 2017-09-12	3	3	3
2.999999999999998			
## 2017-09-27	1	1	1
0.999999999999967			
## 2017-09-28	1	1.2	1
0.999999999999998			
## 2017-10-04	3	3.2	3
2.999999999999997			
## 2017-10-06	1	1	1
0.999999999999974			
## 2017-10-11	-6.91979806788368e-15	0	0 -3.17565373215155e-14
## 2017-10-13	1	1.2	1
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## 2017-10-24	1.006	1.2	1
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## 2017-10-26	-7.1151973202177e-15	0	0 -1.93220394457137e-14
## 2017-11-17	3	2.6	3
2.999999999999996			
## 2017-11-24	-7.95008503473582e-15	0	0 -3.33108495559907e-14
## 2017-11-28	3	3	3
2.999999999999998			
## 2017-11-30	3	2.4	3
2.999999999999997			
## 2017-12-11	4	3.4	4
3.999999999999999			
## 2017-12-15	3	3.6	3
2.999999999999997			

## 2017-12-22	1	1.2	1
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## 2017-12-27	1	1.2	1
0.999999999999967			
## 2018-01-04	1	1.4	1
0.999999999999998			
## 2018-01-11	3	3.2	3
2.99999999999997			
## 2018-01-22	2	2.6	2
2			
## 2018-01-23	2	1.2	2
1.99999999999998			
## 2018-01-24	-6.87006007638047e-15	0	0 -2.22086193097391e-14
14			
## 2018-01-30	1	1.4	1
0.999999999999969			
## 2018-02-01	-7.17648163117701e-15	0	0 -2.66495114082398e-14
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## 2018-02-09	4	3.2	4
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## 2018-02-14	4	3.4	4
3.99999999999997			
## 2018-02-15	4	2.4	4
3.99999999999997			
## 2018-02-21	5	4.4	5
4.99999999999997			
## 2018-02-22	5	4	5
4.99999999999998			
## 2018-03-07	6	5.2	6.24242424242424
5.99999999999997			
## 2018-03-12	6	3.6	6.24242424242424
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## 2018-03-27	-6.87538914689867e-15	0	0 -2.44290653589894e-14
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## 2018-04-05	3	2.2	3
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## 2018-04-18	1	1.6	1
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## 2018-04-20	-7.92610421740392e-15	0	0 -2.99801804821152e-14
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## 2018-05-02	-6.94821977731408e-15	0	0	-2.75376898279399e-14
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## 2018-05-07		1	1.2	1
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## 2018-05-08		1	1.2	1
0.999999999999981				
## 2018-05-11		2	1.2	2
1.999999999999997				
## 2018-05-16		2	2.2	2
1.999999999999997				
## 2018-05-17	-7.12763181809351e-15	0	0	-2.55392883836146e-14
## 2018-05-23		2	2	2
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## 2018-06-05		1	1	1
0.999999999999973				
## 2018-06-06		1	1.2	1
0.999999999999978				
## 2018-06-19		1	1	1
0.999999999999972				
## 2018-06-21	-6.96775970254748e-15	0	0	-2.1542485494964e-14
## 2018-06-29		1.008	1	1
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## 2018-07-05		3	2.2	3
2.999999999999998				
## 2018-07-06		3	2.8	3
2.999999999999998				
## 2018-07-17		5	4.8	5
4.999999999999998				
## 2018-07-26		2	2	2
1.999999999999997				
## 2018-07-27	-7.96873678154952e-15	0	0	-3.13124481116654e-14
## 2018-08-01	-6.94022617153678e-15	0	0	-2.64274668033147e-14
## 2018-08-02		1.014	1.2	1
0.999999999999971				
## 2018-08-03		1	1	1
0.999999999999975				
## 2018-08-09	-7.23332505003782e-15	0	0	-2.50951991737645e-14
## 2018-08-27		2	2.4	2
2				

## 2018-08-30	2	2	2
1.99999999999997			
## 2018-09-04	2	1.6	2
1.99999999999998			
## 2018-09-07	2	1.8	2
1.99999999999996			
## 2018-09-20	7	6.4	6.24242424242424
6.99999999999997			
## 2018-10-01	-6.99529323355819e-15	0	0 7.72997300001608e-16
## 2018-10-02	1	1.2	1
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## 2018-10-04	-6.93933799311708e-15	0	0 -2.02102178654138e-14
## 2018-10-18	-7.0858874323676e-15	0	0 -2.08763516801889e-14
## 2018-10-23	2	1.6	2
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## 2018-11-07	1	1.2	1
0.999999999999973			
## 2018-11-13	3	3	3
2.99999999999998			
## 2018-11-14	3	3.2	3
2.99999999999997			
## 2018-11-15	-7.19690973483011e-15	0	0 -2.48731545688395e-14
## 2018-11-19	-6.98641144936118e-15	0	0 -5.5927032954858e-16
## 2018-12-03	-6.96864788096718e-15	0	0 -2.66869407633638e-15
## 2018-12-10	3	3	3
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## 2018-12-13	-7.15250081384511e-15	0	0 -1.90999948407887e-14
## 2018-12-14	-8.03268562776793e-15	0	0 -3.10904035067404e-14
## 2018-12-24	1	1.4	1
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## 2018-12-27	-7.0947692165646e-15	0	0 -2.48731545688395e-14
## 2019-01-04	2	2.6	2
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## 2019-01-10	-7.16493531172091e-15	0	0 -2.1098396285114e-14
## 2019-01-25	3	3.6	3
2.99999999999997			
## 2019-01-31	3	3.4	3
2.99999999999997			
## 2019-02-05	3	2.4	3
2.99999999999998			

## 2019-02-22	3	3.2	3
2.999999999999998			
## 2019-02-25	3	2.8	3
3			
## 2019-03-01	-7.8257400559778e-15	0	0 -2.37629315442144e-
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## 2019-03-04	-6.89048818003357e-15	0	0 3.77059946648953e-
15			
## 2019-03-06	-6.78657130492866e-15	0	0 -2.42070207540644e-
14			
## 2019-03-07	-6.99351687671879e-15	0	0 -1.97661286555638e-
14			
## 2019-03-13	2	2	2
1.999999999999998			
## 2019-03-14	2	1.8	2
1.999999999999998			
## 2019-03-20	1	1.2	1
0.999999999999969			
## 2019-03-21	1	1.6	1
0.999999999999981			
## 2019-03-22	-8.01136934569513e-15	0	0 -2.88699574574901e-
14			
## 2019-03-26	1	1.4	1
0.999999999999971			
## 2019-03-27	1	1.2	1
0.999999999999977			
## 2019-03-29	6	5.2	6.24242424242424
5.99999999999997			
## 2019-04-10	2	2.2	2
1.999999999999998			
## 2019-04-15	2	1.4	2
1.999999999999999			
## 2019-04-22	2	1.4	2
1.999999999999999			
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1.999999999999998			
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2			
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15			
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## 2019-06-10	-6.96331881044898e-15	0	0	-3.11278328618644e-15
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## 2019-06-26	3.99999999999997	4	4.2	4
## 2019-07-10	2.99999999999998	3	3	3
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## 2019-07-23	1.99999999999998	2	2.4	2
## 2019-08-05	-6.69597710611924e-15	0	0	4.76980018865217e-15
## 2019-08-06	1.99999999999997	2.002	0.6	2
## 2019-08-07	1.99999999999998	2	2	2
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## 2019-08-16	1.99999999999998	2	3	2
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## 2019-09-06	8.99999999999996	9.006	7.2	8.65116279069767
## 2019-09-19	-7.1205263907359e-15	0	0	-2.33188423343643e-14
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## 2019-09-30	-6.93578527943828e-15	0	0	-1.11438184186116e-15
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## 2019-10-10	5.99999999999998	6	4.8	6.24242424242424
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3.999999999999996			
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1.999999999999998			

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1			
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## 2008-08-11	4
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## 2009-07-09	1
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## 2009-08-07	1
## 2009-08-11	2
## 2009-08-19	5
## 2009-08-26	5
## 2009-09-01	9
## 2009-09-08	9
## 2009-09-10	9
## 2009-09-11	9
## 2009-09-14	9
## 2009-09-21	1
## 2009-09-25	2
## 2009-09-28	0

## 2009-10-02	3
## 2009-10-05	3
## 2009-10-08	3
## 2009-10-12	3
## 2009-10-15	2
## 2009-10-21	0
## 2009-10-28	1
## 2009-11-05	3
## 2009-11-06	3
## 2009-11-09	3
## 2009-11-11	1
## 2009-12-08	0
## 2009-12-17	0
## 2009-12-30	1
## 2010-01-04	1
## 2010-01-05	1
## 2010-01-14	3
## 2010-01-28	4
## 2010-02-02	4
## 2010-02-08	3
## 2010-02-09	3
## 2010-02-12	3
## 2010-02-16	3
## 2010-02-24	4
## 2010-02-25	2
## 2010-03-05	1
## 2010-03-10	2
## 2010-03-15	0
## 2010-03-16	0
## 2010-03-19	3
## 2010-03-22	3
## 2010-03-25	0
## 2010-03-30	2
## 2010-04-06	0
## 2010-04-08	1
## 2010-04-12	1
## 2010-04-15	0
## 2010-04-28	2
## 2010-04-29	2
## 2010-04-30	1
## 2010-05-05	1
## 2010-05-07	1
## 2010-05-14	1
## 2010-05-18	1
## 2010-05-19	1
## 2010-05-20	1
## 2010-05-21	1
## 2010-05-26	4
## 2010-05-27	4
## 2010-06-03	0

## 2010-06-04	0
## 2010-06-07	1
## 2010-06-08	1
## 2010-06-16	3
## 2010-06-18	0
## 2010-06-21	0
## 2010-06-23	1
## 2010-06-24	0
## 2010-06-28	0
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## 2010-07-06	2
## 2010-07-07	2
## 2010-07-08	2
## 2010-07-12	1
## 2010-07-16	0
## 2010-07-19	5
## 2010-07-21	5
## 2010-08-20	0
## 2010-08-25	1
## 2010-08-31	4
## 2010-09-01	4
## 2010-09-03	4
## 2010-09-08	0
## 2010-09-17	2
## 2010-09-21	2
## 2010-09-22	0
## 2010-09-23	2
## 2010-10-01	2
## 2010-10-05	1
## 2010-10-07	1
## 2010-10-12	2
## 2010-10-13	2
## 2010-10-15	1
## 2010-10-19	1
## 2010-10-26	4
## 2010-10-29	0
## 2010-11-08	0
## 2010-11-12	1
## 2010-11-15	1
## 2010-11-16	4
## 2010-11-22	4
## 2010-11-24	1
## 2010-11-29	0
## 2010-12-06	1
## 2010-12-10	1
## 2010-12-17	2
## 2010-12-21	2
## 2010-12-28	2
## 2011-01-04	4
## 2011-01-10	4

## 2011-01-24	4
## 2011-01-31	0
## 2011-02-22	0
## 2011-02-23	0
## 2011-02-28	2
## 2011-03-02	2
## 2011-03-11	2
## 2011-03-29	1
## 2011-03-30	1
## 2011-04-04	0
## 2011-04-06	0
## 2011-04-18	2
## 2011-04-21	2
## 2011-04-29	2
## 2011-05-05	3
## 2011-05-13	1
## 2011-05-17	0
## 2011-05-19	1
## 2011-05-25	0
## 2011-05-27	0
## 2011-06-01	1
## 2011-06-02	1
## 2011-06-03	0
## 2011-06-09	2
## 2011-06-14	1
## 2011-06-15	1
## 2011-06-17	3
## 2011-06-20	3
## 2011-06-23	1
## 2011-07-01	2
## 2011-07-07	1
## 2011-07-12	0
## 2011-07-13	0
## 2011-07-18	0
## 2011-07-19	0
## 2011-07-20	0
## 2011-07-28	1
## 2011-08-02	1
## 2011-08-05	0
## 2011-08-18	0
## 2011-08-22	1
## 2011-08-23	1
## 2011-08-25	2
## 2011-08-26	2
## 2011-08-30	1
## 2011-09-08	0
## 2011-09-13	4
## 2011-10-06	3
## 2011-10-07	4
## 2011-10-13	4

## 2011-10-17	1
## 2011-10-19	1
## 2011-10-28	3
## 2011-11-01	0
## 2011-11-10	1
## 2011-11-14	0
## 2011-11-16	0
## 2011-11-29	5
## 2011-12-09	2
## 2011-12-13	3
## 2011-12-15	3
## 2011-12-23	0
## 2011-12-28	1
## 2011-12-29	1
## 2012-01-17	3
## 2012-01-18	3
## 2012-01-19	3
## 2012-01-24	5
## 2012-01-31	3
## 2012-02-01	3
## 2012-02-08	0
## 2012-02-09	0
## 2012-02-10	1
## 2012-02-16	1
## 2012-03-01	1
## 2012-03-02	1
## 2012-03-12	3
## 2012-03-13	3
## 2012-03-16	2
## 2012-03-19	2
## 2012-03-23	2
## 2012-03-30	0
## 2012-04-05	0
## 2012-04-09	0
## 2012-04-10	2
## 2012-04-13	4
## 2012-04-17	4
## 2012-04-20	0
## 2012-04-23	4
## 2012-04-25	4
## 2012-04-27	4
## 2012-04-30	0
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## 2012-05-25	6
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## 2012-06-26	3
## 2012-06-27	3
## 2012-06-28	3
## 2012-07-19	0
## 2012-07-25	2

## 2012-07-27	2
## 2012-07-30	1
## 2012-07-31	1
## 2012-08-06	0
## 2012-08-07	1
## 2012-08-14	1
## 2012-08-17	4
## 2012-08-20	4
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## 2012-09-13	0
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## 2012-10-16	5
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## 2012-11-26	2
## 2012-11-30	0
## 2012-12-03	0
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## 2012-12-12	1
## 2012-12-17	3
## 2012-12-18	3
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## 2012-12-26	0
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## 2013-01-03	3
## 2013-01-04	3
## 2013-01-10	1
## 2013-01-11	0
## 2013-01-14	0
## 2013-01-22	2
## 2013-01-29	0
## 2013-02-05	3
## 2013-02-06	3
## 2013-02-21	2
## 2013-02-25	13
## 2013-02-26	13
## 2013-02-27	13
## 2013-03-04	13
## 2013-03-07	13
## 2013-03-08	13
## 2013-03-11	13
## 2013-03-12	13
## 2013-03-18	3

## 2013-04-09	2
## 2013-04-10	2
## 2013-04-16	2
## 2013-04-17	2
## 2013-04-19	0
## 2013-04-23	2
## 2013-04-24	2
## 2013-04-30	3
## 2013-05-09	3
## 2013-05-15	3
## 2013-05-20	0
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## 2013-06-12	1
## 2013-06-14	2
## 2013-06-18	2
## 2013-06-20	0
## 2013-06-21	0
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## 2013-07-02	4
## 2013-07-10	5
## 2013-07-12	5
## 2013-07-16	5
## 2013-07-19	0
## 2013-07-23	4
## 2013-07-30	2
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## 2013-08-08	1
## 2013-08-21	3
## 2013-08-26	1
## 2013-08-29	5
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## 2013-09-23	3
## 2013-10-03	4
## 2013-10-15	5
## 2013-10-22	5
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## 2013-10-25	0
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## 2013-10-31	2
## 2013-11-08	3
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## 2013-11-26	1
## 2013-11-29	0

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## 2013-12-23	1
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## 2014-01-17	5
## 2014-01-21	5
## 2014-01-22	5
## 2014-01-23	5
## 2014-01-27	3
## 2014-01-30	3
## 2014-02-03	2
## 2014-02-11	0
## 2014-02-21	5
## 2014-02-25	5
## 2014-02-26	0
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## 2014-03-06	4
## 2014-03-07	4
## 2014-03-12	0
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## 2014-03-25	2
## 2014-03-28	2
## 2014-03-31	2
## 2014-04-01	2
## 2014-04-04	0
## 2014-04-07	2
## 2014-04-16	2
## 2014-04-22	4
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## 2014-05-02	8
## 2014-05-06	8
## 2014-05-15	2
## 2014-05-16	2
## 2014-05-19	2
## 2014-05-20	10
## 2014-05-22	10
## 2014-06-02	10
## 2014-06-03	10
## 2014-06-09	1
## 2014-06-12	6
## 2014-06-13	6
## 2014-06-17	6
## 2014-06-26	2
## 2014-06-27	0
## 2014-06-30	1
## 2014-07-16	0
## 2014-07-17	1

## 2014-07-21	0
## 2014-07-22	1
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## 2014-08-11	2
## 2014-08-21	1
## 2014-08-22	1
## 2014-08-27	1
## 2014-08-29	1
## 2014-09-18	1
## 2014-09-24	1
## 2014-09-25	1
## 2014-09-26	1
## 2014-09-29	1
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## 2014-10-02	1
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## 2014-11-03	4
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## 2014-12-11	2
## 2014-12-15	1
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## 2014-12-18	4
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## 2015-01-06	0
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## 2015-01-20	5
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## 2015-01-30	0
## 2015-02-02	0
## 2015-02-03	1
## 2015-02-05	0
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## 2015-02-23	5
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## 2015-03-03	3
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## 2015-03-11	8
## 2015-03-12	8
## 2015-03-16	8
## 2015-03-20	8
## 2015-03-23	0
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## 2015-04-20	5
## 2015-04-23	5
## 2015-04-24	5
## 2015-05-01	1
## 2015-05-11	1
## 2015-05-14	1
## 2015-05-27	1
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## 2015-06-02	0
## 2015-06-10	2
## 2015-06-16	4
## 2015-06-22	4
## 2015-06-23	0
## 2015-06-24	0
## 2015-06-25	0
## 2015-06-29	1
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## 2015-07-08	3
## 2015-07-10	3
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## 2015-07-31	3
## 2015-08-07	2
## 2015-08-10	2
## 2015-08-17	3
## 2015-08-19	0
## 2015-08-24	0
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## 2015-09-02	3
## 2015-09-09	8
## 2015-09-15	8
## 2015-09-18	0
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## 2015-09-23	1
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## 2015-10-12	4
## 2015-10-19	2
## 2015-10-28	0
## 2015-10-29	3

## 2015-11-06	0
## 2015-11-17	0
## 2015-11-18	1
## 2015-11-20	1
## 2015-11-23	1
## 2015-11-24	2
## 2015-11-27	2
## 2015-12-07	2
## 2015-12-11	0
## 2015-12-15	2
## 2015-12-16	2
## 2015-12-17	0
## 2015-12-21	4
## 2015-12-24	4
## 2015-12-30	0
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## 2016-01-05	1
## 2016-01-06	1
## 2016-01-11	2
## 2016-01-12	2
## 2016-01-13	1
## 2016-01-14	1
## 2016-01-15	4
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## 2016-02-18	6
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## 2016-03-08	1
## 2016-03-16	1
## 2016-03-28	3
## 2016-04-11	5
## 2016-04-14	5
## 2016-05-04	0
## 2016-05-19	0
## 2016-05-24	2
## 2016-05-31	3
## 2016-06-09	4
## 2016-06-14	1
## 2016-06-16	3
## 2016-06-17	3
## 2016-06-20	3
## 2016-06-22	1
## 2016-06-29	4
## 2016-07-06	4
## 2016-07-07	4
## 2016-07-08	4
## 2016-07-11	4

## 2016-07-20	0
## 2016-07-21	1
## 2016-07-28	1
## 2016-08-02	0
## 2016-08-05	2
## 2016-08-09	1
## 2016-08-12	2
## 2016-08-15	2
## 2016-08-18	1
## 2016-08-24	3
## 2016-08-26	0
## 2016-08-31	0
## 2016-09-01	4
## 2016-09-14	1
## 2016-09-23	2
## 2016-10-06	2
## 2016-10-14	0
## 2016-10-24	0
## 2016-10-25	0
## 2016-10-27	3
## 2016-11-01	0
## 2016-11-02	0
## 2016-11-03	4
## 2016-11-08	4
## 2016-11-11	3
## 2016-11-16	2
## 2016-11-18	2
## 2016-11-23	2
## 2016-11-25	2
## 2016-11-29	1
## 2016-12-01	1
## 2016-12-07	2
## 2016-12-09	1
## 2016-12-12	3
## 2016-12-30	0
## 2017-01-05	4
## 2017-01-12	0
## 2017-01-18	1
## 2017-01-19	1
## 2017-01-25	3
## 2017-01-26	3
## 2017-02-08	3
## 2017-02-14	1
## 2017-02-24	4
## 2017-02-27	4
## 2017-03-06	0
## 2017-03-08	1
## 2017-03-13	0
## 2017-03-15	2
## 2017-03-20	0

## 2017-03-22	4
## 2017-03-27	4
## 2017-03-28	4
## 2017-03-30	1
## 2017-04-03	1
## 2017-04-05	6
## 2017-04-06	6
## 2017-04-10	6
## 2017-04-25	2
## 2017-04-28	0
## 2017-05-08	4
## 2017-05-09	4
## 2017-05-11	0
## 2017-05-19	6
## 2017-05-24	6
## 2017-05-25	6
## 2017-06-01	4
## 2017-06-09	0
## 2017-06-12	0
## 2017-06-13	0
## 2017-06-14	0
## 2017-06-16	1
## 2017-06-20	2
## 2017-06-22	2
## 2017-06-29	7
## 2017-07-05	7
## 2017-07-06	7
## 2017-07-07	7
## 2017-07-12	3
## 2017-07-17	0
## 2017-07-18	0
## 2017-07-25	1
## 2017-08-01	1
## 2017-08-15	0
## 2017-08-16	0
## 2017-08-17	0
## 2017-08-18	1
## 2017-08-24	1
## 2017-08-31	2
## 2017-09-01	2
## 2017-09-07	0
## 2017-09-12	3
## 2017-09-27	1
## 2017-09-28	1
## 2017-10-04	3
## 2017-10-06	1
## 2017-10-11	0
## 2017-10-13	1
## 2017-10-24	1
## 2017-10-26	0

## 2017-11-17	3
## 2017-11-24	0
## 2017-11-28	3
## 2017-11-30	3
## 2017-12-11	4
## 2017-12-15	3
## 2017-12-22	1
## 2017-12-27	1
## 2018-01-04	1
## 2018-01-11	3
## 2018-01-22	2
## 2018-01-23	2
## 2018-01-24	0
## 2018-01-30	1
## 2018-02-01	0
## 2018-02-08	0
## 2018-02-09	4
## 2018-02-14	4
## 2018-02-15	4
## 2018-02-21	5
## 2018-02-22	5
## 2018-03-07	6
## 2018-03-12	6
## 2018-03-13	0
## 2018-03-20	1
## 2018-03-26	1
## 2018-03-27	0
## 2018-03-29	1
## 2018-04-05	3
## 2018-04-18	1
## 2018-04-20	0
## 2018-04-23	0
## 2018-04-30	1
## 2018-05-02	0
## 2018-05-03	1
## 2018-05-07	1
## 2018-05-08	1
## 2018-05-11	2
## 2018-05-16	2
## 2018-05-17	0
## 2018-05-23	2
## 2018-06-05	1
## 2018-06-06	1
## 2018-06-19	1
## 2018-06-21	0
## 2018-06-29	1
## 2018-07-05	3
## 2018-07-06	3
## 2018-07-17	5
## 2018-07-26	2

## 2018-07-27	0
## 2018-08-01	0
## 2018-08-02	1
## 2018-08-03	1
## 2018-08-09	0
## 2018-08-27	2
## 2018-08-30	2
## 2018-09-04	2
## 2018-09-07	2
## 2018-09-20	7
## 2018-10-01	0
## 2018-10-02	1
## 2018-10-04	0
## 2018-10-18	0
## 2018-10-23	2
## 2018-11-07	1
## 2018-11-13	3
## 2018-11-14	3
## 2018-11-15	0
## 2018-11-19	0
## 2018-12-03	0
## 2018-12-10	3
## 2018-12-13	0
## 2018-12-14	0
## 2018-12-24	1
## 2018-12-27	0
## 2019-01-04	2
## 2019-01-10	0
## 2019-01-25	3
## 2019-01-31	3
## 2019-02-05	3
## 2019-02-22	3
## 2019-02-25	3
## 2019-03-01	0
## 2019-03-04	0
## 2019-03-06	0
## 2019-03-07	0
## 2019-03-13	2
## 2019-03-14	2
## 2019-03-20	1
## 2019-03-21	1
## 2019-03-22	0
## 2019-03-26	1
## 2019-03-27	1
## 2019-03-29	6
## 2019-04-10	2
## 2019-04-15	2
## 2019-04-22	2
## 2019-04-24	2
## 2019-04-29	2

## 2019-05-06	0
## 2019-05-07	0
## 2019-05-08	2
## 2019-05-10	2
## 2019-05-16	1
## 2019-05-22	0
## 2019-06-10	0
## 2019-06-14	0
## 2019-06-19	1
## 2019-06-21	1
## 2019-06-26	4
## 2019-07-10	3
## 2019-07-11	3
## 2019-07-19	0
## 2019-07-23	2
## 2019-08-05	0
## 2019-08-06	2
## 2019-08-07	2
## 2019-08-14	0
## 2019-08-16	2
## 2019-08-23	0
## 2019-09-06	9
## 2019-09-19	0
## 2019-09-26	0
## 2019-09-30	0
## 2019-10-03	1
## 2019-10-07	6
## 2019-10-08	6
## 2019-10-09	6
## 2019-10-10	6
## 2019-10-21	2
## 2019-10-22	4
## 2019-10-25	4
## 2019-10-28	4
## 2019-10-31	3
## 2019-11-01	3
## 2019-11-06	0
## 2019-11-07	0
## 2019-11-08	0
## 2019-11-14	2
## 2019-11-15	2
## 2019-11-19	1
## 2019-12-02	0
## 2019-12-05	1
## 2019-12-09	0
## 2019-12-10	0
## 2019-12-12	1
## 2019-12-13	2
## 2019-12-16	2
## 2019-12-18	3

```
## 2019-12-24      1
## 2019-12-26      1
## 2019-12-27      0
## 2020-01-13      5
## 2020-01-22      2
## 2020-01-23      2
## 2020-01-27      1
## 2020-02-07      4
## 2020-02-13      0
## 2020-02-14      0
## 2020-02-18      0
## 2020-02-21      0
## 2020-02-24      0
## 2020-02-25      0
## 2020-02-27      0
## 2020-03-06      0
## 2020-03-09      1
## 2020-03-11      0
## 2020-03-12      1
## results        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	DayOfWeek	stockDayValue	lag1	today2lag1	todayGrtrThanlag1
## 1	2005-09-28	Wednesday	20.50	19.30	1.0621762	1
## 2	2005-10-07	Friday	22.15	22.58	0.9809566	0
## 3	2005-10-10	Monday	22.21	22.15	1.0027088	1
## 4	2005-10-14	Friday	22.27	21.71	1.0257946	1
## 5	2005-10-19	Wednesday	21.38	21.49	0.9948813	0
## 6	2005-10-21	Friday	21.96	21.02	1.0447193	1
## 7	2005-10-24	Monday	22.31	21.96	1.0159381	1
## 8	2005-10-28	Friday	23.90	22.56	1.0593972	1
## 9	2005-11-14	Monday	33.75	33.35	1.0119941	1
## 10	2005-11-16	Wednesday	33.60	33.88	0.9917354	0
## 11	2005-11-22	Tuesday	32.50	31.99	1.0159425	1
## 12	2005-11-23	Wednesday	33.04	32.50	1.0166154	1
## 13	2005-12-06	Tuesday	33.62	32.35	1.0392581	1

## 14	2005-12-12	Monday	33.76	33.88	0.9964580	0
## 15	2005-12-13	Tuesday	33.25	33.76	0.9848934	0
## 16	2005-12-14	Wednesday	33.54	33.25	1.0087218	1
## 17	2005-12-16	Friday	35.15	33.63	1.0451978	1
## 18	2005-12-23	Friday	37.73	36.83	1.0244365	1
## 19	2005-12-27	Tuesday	37.46	37.73	0.9928439	0
## 20	2005-12-29	Thursday	37.38	37.45	0.9981308	0
## 21	2006-01-05	Thursday	39.71	39.20	1.0130102	1
## 22	2006-01-06	Friday	39.00	39.71	0.9821204	0
## 23	2006-01-09	Monday	38.61	39.00	0.9900000	0
## 24	2006-01-19	Thursday	30.39	31.00	0.9803225	0
## 25	2006-01-23	Monday	29.42	29.24	1.0061560	1
## 26	2006-01-24	Tuesday	31.02	29.42	1.0543848	1
## 27	2006-01-26	Thursday	30.25	31.00	0.9758065	0
## 28	2006-01-27	Friday	28.89	30.25	0.9550413	0
## 29	2006-02-01	Wednesday	29.38	29.34	1.0013633	1
## 30	2006-02-03	Friday	29.55	30.01	0.9846717	0
## 31	2006-02-07	Tuesday	29.00	29.27	0.9907755	0
## 32	2006-02-10	Friday	30.00	30.35	0.9884679	0
## 33	2006-02-15	Wednesday	33.75	32.80	1.0289634	1
## 34	2006-03-03	Friday	31.87	32.90	0.9686930	0
## 35	2006-03-09	Thursday	32.85	33.46	0.9817692	0
## 36	2006-03-20	Monday	36.95	35.43	1.0429015	1
## 37	2006-03-24	Friday	38.71	39.11	0.9897724	0
## 38	2006-03-28	Tuesday	37.57	39.17	0.9591525	0
## 39	2006-03-29	Wednesday	37.71	37.57	1.0037264	1
## 40	2006-03-30	Thursday	37.49	37.71	0.9941661	0
## 41	2006-04-10	Monday	37.92	39.65	0.9563681	0
## 42	2006-04-11	Tuesday	37.50	37.92	0.9889241	0
## 43	2006-04-12	Wednesday	37.50	37.50	1.0000000	0
## 44	2006-04-17	Monday	36.90	38.63	0.9552162	0
## 45	2006-04-18	Tuesday	37.05	36.90	1.0040650	1
## 46	2006-04-20	Thursday	38.00	38.44	0.9885536	0
## 47	2006-04-27	Thursday	44.30	42.99	1.0304721	1
## 48	2006-05-02	Tuesday	45.40	43.68	1.0393773	1
## 49	2006-05-05	Friday	48.59	48.05	1.0112383	1
## 50	2006-05-12	Friday	48.02	49.12	0.9776059	0
## 51	2006-05-25	Thursday	43.90	43.82	1.0018257	1
## 52	2006-05-31	Wednesday	46.70	44.61	1.0468505	1
## 53	2006-06-02	Friday	45.85	46.25	0.9913513	0
## 54	2006-06-05	Monday	44.58	45.85	0.9723011	0
## 55	2006-06-06	Tuesday	46.28	44.58	1.0381336	1
## 56	2006-06-08	Thursday	47.18	46.89	1.0061847	1
## 57	2006-06-12	Monday	44.25	47.82	0.9253450	0
## 58	2006-06-19	Monday	46.47	45.20	1.0280973	1
## 59	2006-06-28	Wednesday	47.30	48.04	0.9845961	0
## 60	2006-06-30	Friday	50.54	48.11	1.0505092	1
## 61	2006-07-12	Wednesday	52.55	53.45	0.9831618	0
## 62	2006-07-13	Thursday	48.52	52.55	0.9233111	0
## 63	2006-07-21	Friday	48.77	50.20	0.9715139	0

## 64	2006-07-24	Monday	50.05	48.77	1.0262456	1
## 65	2006-07-26	Wednesday	51.13	50.94	1.0037299	1
## 66	2006-07-27	Thursday	47.99	51.13	0.9385879	0
## 67	2006-07-28	Friday	48.21	47.99	1.0045842	1
## 68	2006-08-01	Tuesday	43.54	45.69	0.9529438	0
## 69	2006-08-04	Friday	44.95	46.56	0.9654210	0
## 70	2006-08-09	Wednesday	40.78	41.95	0.9721096	0
## 71	2006-08-10	Thursday	40.52	40.78	0.9936244	0
## 72	2006-08-21	Monday	40.23	42.10	0.9555820	0
## 73	2006-08-22	Tuesday	41.50	40.23	1.0315685	1
## 74	2006-08-25	Friday	39.48	40.22	0.9816012	0
## 75	2006-08-31	Thursday	42.25	43.45	0.9723820	0
## 76	2006-09-08	Friday	41.16	40.94	1.0053737	1
## 77	2006-09-15	Friday	46.23	46.53	0.9935526	0
## 78	2006-09-18	Monday	44.94	46.23	0.9720960	0
## 79	2006-09-20	Wednesday	47.32	46.55	1.0165414	1
## 80	2006-09-22	Friday	46.04	45.98	1.0013049	1
## 81	2006-09-25	Monday	47.67	46.04	1.0354039	1
## 82	2006-09-26	Tuesday	48.00	47.67	1.0069226	1
## 83	2006-10-02	Monday	46.11	44.33	1.0401534	1
## 84	2006-10-12	Thursday	47.56	47.51	1.0010525	1
## 85	2006-10-16	Monday	45.07	45.92	0.9814896	0
## 86	2006-10-17	Tuesday	44.81	45.07	0.9942312	0
## 87	2006-10-18	Wednesday	46.39	44.81	1.0352599	1
## 88	2006-10-27	Friday	49.36	49.43	0.9985839	0
## 89	2006-10-30	Monday	51.28	49.36	1.0388979	1
## 90	2006-11-06	Monday	50.07	47.42	1.0558836	1
## 91	2006-11-13	Monday	51.53	49.30	1.0452333	1
## 92	2006-11-17	Friday	59.45	60.61	0.9808612	0
## 93	2006-11-20	Monday	59.85	59.45	1.0067283	1
## 94	2006-11-27	Monday	59.16	62.95	0.9397935	0
## 95	2006-12-08	Friday	59.25	59.01	1.0040671	1
## 96	2006-12-14	Thursday	57.08	59.25	0.9633756	0
## 97	2006-12-15	Friday	56.50	57.08	0.9898388	0
## 98	2006-12-27	Wednesday	57.04	55.81	1.0220391	1
## 99	2007-01-04	Thursday	58.84	56.30	1.0451155	1
## 100	2007-01-08	Monday	57.93	58.29	0.9938240	0
## 101	2007-01-12	Friday	60.81	61.20	0.9936275	0
## 102	2007-01-16	Tuesday	61.96	60.81	1.0189113	1
## 103	2007-01-17	Wednesday	58.65	61.96	0.9465785	0
## 104	2007-01-22	Monday	57.03	58.29	0.9783839	0
## 105	2007-01-24	Wednesday	53.35	53.27	1.0015017	1
## 106	2007-01-31	Wednesday	55.98	53.10	1.0542373	1
## 107	2007-02-01	Thursday	57.99	55.98	1.0359057	1
## 108	2007-02-05	Monday	58.41	57.98	1.0074164	1
## 109	2007-02-06	Tuesday	58.31	58.41	0.9982880	0
## 110	2007-02-08	Thursday	59.31	58.08	1.0211777	1
## 111	2007-02-13	Tuesday	59.17	58.88	1.0049252	1
## 112	2007-02-20	Tuesday	56.38	56.70	0.9943563	0
## 113	2007-02-23	Friday	54.25	54.62	0.9932259	0

## 114	2007-03-01	Thursday	52.08	52.29	0.9959840	0
## 115	2007-03-14	Wednesday	45.78	47.44	0.9650084	0
## 116	2007-03-20	Tuesday	48.53	47.86	1.0139991	1
## 117	2007-03-22	Thursday	47.90	49.41	0.9694394	0
## 118	2007-03-23	Friday	47.58	47.90	0.9933194	0
## 119	2007-03-27	Tuesday	46.71	46.72	0.9997859	0
## 120	2007-03-28	Wednesday	46.41	46.71	0.9935774	0
## 121	2007-04-10	Tuesday	45.84	47.81	0.9587952	0
## 122	2007-04-18	Wednesday	46.98	45.95	1.0224156	1
## 123	2007-04-19	Thursday	45.42	46.98	0.9667943	0
## 124	2007-04-24	Tuesday	42.77	43.21	0.9898172	0
## 125	2007-04-26	Thursday	39.33	42.65	0.9221571	0
## 126	2007-04-27	Friday	37.18	39.33	0.9453343	0
## 127	2007-04-30	Monday	36.94	37.18	0.9935449	0
## 128	2007-05-03	Thursday	35.55	36.18	0.9825870	0
## 129	2007-05-07	Monday	35.11	36.15	0.9712310	0
## 130	2007-05-08	Tuesday	34.40	35.11	0.9797779	0
## 131	2007-05-09	Wednesday	34.34	34.40	0.9982558	0
## 132	2007-05-22	Tuesday	34.77	33.01	1.0533172	1
## 133	2007-05-23	Wednesday	34.95	34.77	1.0051769	1
## 134	2007-05-30	Wednesday	35.66	35.60	1.0016854	1
## 135	2007-06-05	Tuesday	33.53	33.95	0.9876288	0
## 136	2007-06-07	Thursday	30.20	32.63	0.9255287	0
## 137	2007-06-12	Tuesday	29.19	29.66	0.9841538	0
## 138	2007-06-14	Thursday	28.80	28.72	1.0027855	1
## 139	2007-06-15	Friday	27.61	28.80	0.9586806	0
## 140	2007-06-29	Friday	30.27	31.00	0.9764516	0
## 141	2007-07-02	Monday	30.70	30.27	1.0142055	1
## 142	2007-07-06	Friday	34.62	33.82	1.0236546	1
## 143	2007-07-11	Wednesday	34.73	33.83	1.0266035	1
## 144	2007-07-13	Friday	34.10	34.93	0.9762381	0
## 145	2007-07-31	Tuesday	31.01	32.68	0.9488984	0
## 146	2007-08-06	Monday	30.00	31.14	0.9633912	0
## 147	2007-08-09	Thursday	29.15	31.39	0.9286397	0
## 148	2007-08-13	Monday	29.46	28.98	1.0165631	1
## 149	2007-08-14	Tuesday	28.72	29.46	0.9748812	0
## 150	2007-08-20	Monday	26.66	26.31	1.0133030	1
## 151	2007-08-22	Wednesday	30.57	28.51	1.0722553	1
## 152	2007-08-23	Thursday	29.62	30.57	0.9689238	0
## 153	2007-08-29	Wednesday	29.84	28.70	1.0397212	1
## 154	2007-09-04	Tuesday	32.56	30.95	1.0520194	1
## 155	2007-09-06	Thursday	31.14	31.57	0.9863794	0
## 156	2007-09-11	Tuesday	31.15	29.51	1.0555744	1
## 157	2007-09-13	Thursday	29.90	29.89	1.0003346	1
## 158	2007-09-17	Monday	29.16	30.08	0.9694149	0
## 159	2007-09-20	Thursday	29.76	30.46	0.9770191	0
## 160	2007-09-27	Thursday	26.50	26.90	0.9851301	0
## 161	2007-10-03	Wednesday	29.04	28.65	1.0136126	1
## 162	2007-10-09	Tuesday	31.53	30.57	1.0314034	1
## 163	2007-10-12	Friday	30.15	29.15	1.0343053	1

## 164	2007-10-15	Monday	28.20	30.15	0.9353234	0
## 165	2007-10-23	Tuesday	28.67	26.50	1.0818868	1
## 166	2007-10-24	Wednesday	28.74	28.67	1.0024416	1
## 167	2007-10-26	Friday	27.35	27.39	0.9985396	0
## 168	2007-10-29	Monday	27.07	27.35	0.9897623	0
## 169	2007-11-07	Wednesday	22.60	23.08	0.9792028	0
## 170	2007-11-12	Monday	22.03	21.03	1.0475511	1
## 171	2007-11-15	Thursday	23.23	23.48	0.9893526	0
## 172	2007-11-16	Friday	22.41	23.23	0.9647008	0
## 173	2007-11-19	Monday	20.61	22.41	0.9196788	0
## 174	2007-11-21	Wednesday	19.94	19.22	1.0374611	1
## 175	2007-11-23	Friday	20.35	19.94	1.0205616	1
## 176	2007-11-28	Wednesday	20.97	19.51	1.0748334	1
## 177	2007-11-30	Friday	20.77	20.06	1.0353939	1
## 178	2007-12-06	Thursday	17.54	18.04	0.9722838	0
## 179	2007-12-14	Friday	15.66	15.74	0.9949174	0
## 180	2007-12-20	Thursday	15.50	15.44	1.0038860	1
## 181	2007-12-21	Friday	15.40	15.50	0.9935484	0
## 182	2007-12-26	Wednesday	15.72	15.98	0.9837297	0
## 183	2007-12-28	Friday	14.71	15.18	0.9690382	0
## 184	2007-12-31	Monday	14.71	14.71	1.0000000	0
## 185	2008-01-09	Wednesday	10.89	11.01	0.9891008	0
## 186	2008-01-14	Monday	12.04	11.89	1.0126156	1
## 187	2008-01-18	Friday	12.92	12.51	1.0327738	1
## 188	2008-01-23	Wednesday	13.14	12.02	1.0931780	1
## 189	2008-01-24	Thursday	12.66	13.14	0.9634703	0
## 190	2008-02-05	Tuesday	14.55	14.46	1.0062241	1
## 191	2008-02-11	Monday	15.11	15.17	0.9960448	0
## 192	2008-02-20	Wednesday	14.21	13.91	1.0215672	1
## 193	2008-03-10	Monday	10.29	10.99	0.9363057	0
## 194	2008-03-12	Wednesday	9.02	9.98	0.9038076	0
## 195	2008-03-17	Monday	7.45	8.29	0.8986731	0
## 196	2008-03-24	Monday	9.10	8.73	1.0423826	1
## 197	2008-04-03	Thursday	9.25	9.17	1.0087241	1
## 198	2008-04-07	Monday	9.62	9.43	1.0201485	1
## 199	2008-04-09	Wednesday	8.84	9.87	0.8956434	0
## 200	2008-04-10	Thursday	9.16	8.84	1.0361991	1
## 201	2008-04-14	Monday	8.74	8.81	0.9920545	0
## 202	2008-04-30	Wednesday	8.59	8.96	0.9587054	0
## 203	2008-05-01	Thursday	9.35	8.59	1.0884750	1
## 204	2008-05-06	Tuesday	8.03	8.32	0.9651442	0
## 205	2008-05-07	Wednesday	7.34	8.03	0.9140722	0
## 206	2008-05-12	Monday	6.99	7.08	0.9872881	0
## 207	2008-05-13	Tuesday	6.98	6.99	0.9985694	0
## 208	2008-05-14	Wednesday	7.25	6.98	1.0386819	1
## 209	2008-05-15	Thursday	7.62	7.25	1.0510345	1
## 210	2008-05-16	Friday	7.80	7.62	1.0236220	1
## 211	2008-05-22	Thursday	5.22	5.35	0.9757009	0
## 212	2008-05-28	Wednesday	4.08	4.44	0.9189189	0
## 213	2008-06-02	Monday	3.76	3.96	0.9494949	0

## 214	2008-06-05	Thursday	4.42	4.19	1.0548926	1
## 215	2008-06-12	Thursday	2.69	3.20	0.8406250	0
## 216	2008-06-13	Friday	2.86	2.69	1.0631970	1
## 217	2008-06-17	Tuesday	3.26	3.11	1.0482315	1
## 218	2008-06-18	Wednesday	3.01	3.26	0.9233129	0
## 219	2008-06-23	Monday	2.54	3.15	0.8063492	0
## 220	2008-06-24	Tuesday	2.44	2.54	0.9606299	0
## 221	2008-07-01	Tuesday	2.41	2.50	0.9640000	0
## 222	2008-07-03	Thursday	2.40	2.37	1.0126582	1
## 223	2008-07-16	Wednesday	2.24	1.76	1.2727273	1
## 224	2008-07-21	Monday	2.69	2.87	0.9372822	0
## 225	2008-07-31	Thursday	5.06	4.87	1.0390144	1
## 226	2008-08-07	Thursday	6.77	6.66	1.0165165	1
## 227	2008-08-08	Friday	7.96	6.77	1.1757755	1
## 228	2008-08-11	Monday	8.39	7.96	1.0540201	1
## 229	2008-08-12	Tuesday	9.39	8.39	1.1191895	1
## 230	2008-08-13	Wednesday	9.11	9.39	0.9701810	0
## 231	2008-08-19	Tuesday	7.64	8.99	0.8498331	0
## 232	2008-08-21	Thursday	6.80	7.51	0.9054594	0
## 233	2008-08-25	Monday	7.78	7.86	0.9898219	0
## 234	2008-08-29	Friday	8.49	8.16	1.0404412	1
## 235	2008-09-04	Thursday	7.65	8.54	0.8957845	0
## 236	2008-09-08	Monday	7.68	7.91	0.9709229	0
## 237	2008-09-12	Friday	7.88	7.52	1.0478723	1
## 238	2008-09-15	Monday	7.84	7.88	0.9949239	0
## 239	2008-10-02	Thursday	6.92	7.00	0.9885714	0
## 240	2008-10-10	Friday	4.60	3.63	1.2672176	1
## 241	2008-10-16	Thursday	6.78	5.29	1.2816635	1
## 242	2008-10-17	Friday	7.38	6.78	1.0884956	1
## 243	2008-10-20	Monday	7.39	7.38	1.0013550	1
## 244	2008-10-22	Wednesday	8.49	7.83	1.0842912	1
## 245	2008-10-23	Thursday	7.14	8.49	0.8409894	0
## 246	2008-10-30	Thursday	9.33	8.46	1.1028369	1
## 247	2008-11-03	Monday	10.86	10.14	1.0710059	1
## 248	2008-11-05	Wednesday	8.75	10.07	0.8689176	0
## 249	2008-11-10	Monday	7.50	7.87	0.9529860	0
## 250	2008-11-11	Tuesday	7.51	7.50	1.0013333	1
## 251	2008-11-18	Tuesday	6.08	6.18	0.9838188	0
## 252	2008-11-21	Friday	4.48	4.41	1.0158730	1
## 253	2008-11-24	Monday	5.11	4.48	1.1406250	1
## 254	2008-11-25	Tuesday	5.86	5.11	1.1467710	1
## 255	2008-12-09	Tuesday	6.82	7.89	0.8643853	0
## 256	2008-12-15	Monday	6.35	6.68	0.9505988	0
## 257	2008-12-22	Monday	7.33	7.44	0.9852151	0
## 258	2008-12-24	Wednesday	7.65	7.24	1.0566298	1
## 259	2008-12-26	Friday	7.43	7.65	0.9712418	0
## 260	2008-12-29	Monday	7.42	7.43	0.9986541	0
## 261	2009-01-07	Wednesday	9.08	9.06	1.0022075	1
## 262	2009-01-08	Thursday	9.57	9.08	1.0539648	1
## 263	2009-01-21	Wednesday	7.54	7.63	0.9882045	0

## 264	2009-01-22	Thursday	7.65	7.54	1.0145889	1
## 265	2009-01-23	Friday	7.82	7.65	1.0222222	1
## 266	2009-01-30	Friday	5.67	6.47	0.8763524	0
## 267	2009-02-04	Wednesday	5.47	5.77	0.9480069	0
## 268	2009-02-05	Thursday	5.22	5.47	0.9542962	0
## 269	2009-02-11	Wednesday	4.58	5.06	0.9051383	0
## 270	2009-02-18	Wednesday	3.78	4.42	0.8552036	0
## 271	2009-02-20	Friday	3.12	3.60	0.8666667	0
## 272	2009-02-24	Tuesday	3.66	3.55	1.0309859	1
## 273	2009-02-26	Thursday	3.25	3.30	0.9848485	0
## 274	2009-03-02	Monday	2.47	2.85	0.8666667	0
## 275	2009-03-04	Wednesday	2.37	2.30	1.0304348	1
## 276	2009-03-10	Tuesday	2.39	2.01	1.1890547	1
## 277	2009-03-12	Thursday	2.80	2.59	1.0810811	1
## 278	2009-03-17	Tuesday	3.03	2.80	1.0821429	1
## 279	2009-03-19	Thursday	2.68	3.22	0.8322981	0
## 280	2009-03-31	Tuesday	2.53	2.44	1.0368852	1
## 281	2009-04-07	Tuesday	3.04	3.14	0.9681529	0
## 282	2009-04-09	Thursday	3.46	3.10	1.1161290	1
## 283	2009-04-20	Monday	3.58	3.97	0.9017632	0
## 284	2009-04-21	Tuesday	4.18	3.58	1.1675978	1
## 285	2009-04-23	Thursday	4.80	4.36	1.1009174	1
## 286	2009-04-30	Thursday	3.79	3.99	0.9498747	0
## 287	2009-05-12	Tuesday	3.41	3.75	0.9093333	0
## 288	2009-05-20	Wednesday	3.00	3.10	0.9677419	0
## 289	2009-05-28	Thursday	2.56	2.59	0.9884170	0
## 290	2009-05-29	Friday	2.58	2.56	1.0078125	1
## 291	2009-06-01	Monday	2.95	2.58	1.1434109	1
## 292	2009-06-02	Tuesday	3.08	2.95	1.0440678	1
## 293	2009-06-08	Monday	2.73	2.91	0.9381443	0
## 294	2009-06-11	Thursday	2.67	2.63	1.0152091	1
## 295	2009-06-12	Friday	2.71	2.67	1.0149813	1
## 296	2009-06-16	Tuesday	2.65	2.61	1.0153257	1
## 297	2009-06-19	Friday	2.57	2.63	0.9771863	0
## 298	2009-06-22	Monday	2.47	2.57	0.9610895	0
## 299	2009-06-26	Friday	2.35	2.37	0.9915612	0
## 300	2009-06-29	Monday	2.26	2.35	0.9617021	0
## 301	2009-07-01	Wednesday	2.41	2.43	0.9917695	0
## 302	2009-07-02	Thursday	2.46	2.41	1.0207469	1
## 303	2009-07-08	Wednesday	2.14	2.22	0.9639640	0
## 304	2009-07-09	Thursday	2.16	2.14	1.0093458	1
## 305	2009-07-10	Friday	2.06	2.16	0.9537037	0
## 306	2009-07-17	Friday	2.04	2.08	0.9807692	0
## 307	2009-07-20	Monday	2.13	2.04	1.0441176	1
## 308	2009-07-24	Friday	2.79	2.30	1.2130435	1
## 309	2009-08-05	Wednesday	3.26	3.01	1.0830565	1
## 310	2009-08-07	Friday	3.21	3.06	1.0490196	1
## 311	2009-08-11	Tuesday	2.91	3.07	0.9478827	0
## 312	2009-08-19	Wednesday	2.89	2.93	0.9863481	0
## 313	2009-08-26	Wednesday	3.76	3.45	1.0898551	1

## 314	2009-09-01	Tuesday	3.00	3.40	0.8823529	0
## 315	2009-09-08	Tuesday	3.42	3.38	1.0118343	1
## 316	2009-09-10	Thursday	4.02	3.58	1.1229050	1
## 317	2009-09-11	Friday	4.03	4.02	1.0024876	1
## 318	2009-09-14	Monday	4.13	4.03	1.0248139	1
## 319	2009-09-21	Monday	5.43	4.98	1.0903614	1
## 320	2009-09-25	Friday	4.96	4.91	1.0101833	1
## 321	2009-09-28	Monday	4.94	4.96	0.9959677	0
## 322	2009-10-02	Friday	4.31	4.26	1.0117371	1
## 323	2009-10-05	Monday	4.35	4.31	1.0092807	1
## 324	2009-10-08	Thursday	4.37	4.25	1.0282353	1
## 325	2009-10-12	Monday	4.51	4.47	1.0089485	1
## 326	2009-10-15	Thursday	4.52	4.48	1.0089286	1
## 327	2009-10-21	Wednesday	3.87	4.35	0.8896552	0
## 328	2009-10-28	Wednesday	3.13	3.14	0.9968153	0
## 329	2009-11-05	Thursday	2.95	2.92	1.0102740	1
## 330	2009-11-06	Friday	3.19	2.95	1.0813559	1
## 331	2009-11-09	Monday	3.20	3.19	1.0031348	1
## 332	2009-11-11	Wednesday	3.23	3.06	1.0555556	1
## 333	2009-12-08	Tuesday	4.50	4.65	0.9677419	0
## 334	2009-12-17	Thursday	4.62	4.78	0.9665272	0
## 335	2009-12-30	Wednesday	4.87	4.85	1.0041237	1
## 336	2010-01-04	Monday	4.77	4.84	0.9855372	0
## 337	2010-01-05	Tuesday	5.31	4.77	1.1132075	1
## 338	2010-01-14	Thursday	5.59	5.48	1.0200730	1
## 339	2010-01-28	Thursday	5.14	4.86	1.0576132	1
## 340	2010-02-02	Tuesday	5.96	5.60	1.0642857	1
## 341	2010-02-08	Monday	5.93	5.89	1.0067912	1
## 342	2010-02-09	Tuesday	6.44	5.93	1.0860034	1
## 343	2010-02-12	Friday	6.81	6.32	1.0775316	1
## 344	2010-02-16	Tuesday	6.88	6.81	1.0102790	1
## 345	2010-02-24	Wednesday	7.17	7.09	1.0112835	1
## 346	2010-02-25	Thursday	7.08	7.17	0.9874477	0
## 347	2010-03-05	Friday	7.43	7.32	1.0150273	1
## 348	2010-03-10	Wednesday	7.94	7.71	1.0298314	1
## 349	2010-03-15	Monday	7.90	7.95	0.9937107	0
## 350	2010-03-16	Tuesday	7.77	7.90	0.9835443	0
## 351	2010-03-19	Friday	7.10	7.50	0.9466667	0
## 352	2010-03-22	Monday	7.27	7.10	1.0239437	1
## 353	2010-03-25	Thursday	7.37	7.41	0.9946019	0
## 354	2010-03-30	Tuesday	7.22	7.32	0.9863388	0
## 355	2010-04-06	Tuesday	7.08	7.13	0.9929874	0
## 356	2010-04-08	Thursday	7.55	6.82	1.1070381	1
## 357	2010-04-12	Monday	7.62	7.32	1.0409836	1
## 358	2010-04-15	Thursday	7.41	7.42	0.9986523	0
## 359	2010-04-28	Wednesday	7.32	6.33	1.1563981	1
## 360	2010-04-29	Thursday	7.33	7.32	1.0013661	1
## 361	2010-04-30	Friday	7.07	7.33	0.9645293	0
## 362	2010-05-05	Wednesday	6.93	6.86	1.0102041	1
## 363	2010-05-07	Friday	6.38	6.39	0.9984351	0

## 364	2010-05-14	Friday	7.09	7.24	0.9792818	0
## 365	2010-05-18	Tuesday	7.00	7.18	0.9749304	0
## 366	2010-05-19	Wednesday	7.40	7.00	1.0571429	1
## 367	2010-05-20	Thursday	6.84	7.40	0.9243243	0
## 368	2010-05-21	Friday	7.21	6.84	1.0540936	1
## 369	2010-05-26	Wednesday	8.45	7.81	1.0819462	1
## 370	2010-05-27	Thursday	8.74	8.45	1.0343195	1
## 371	2010-06-03	Thursday	9.21	9.44	0.9756356	0
## 372	2010-06-04	Friday	8.59	9.21	0.9326819	0
## 373	2010-06-07	Monday	8.35	8.59	0.9720605	0
## 374	2010-06-08	Tuesday	8.58	8.35	1.0275449	1
## 375	2010-06-16	Wednesday	10.57	10.46	1.0105163	1
## 376	2010-06-18	Friday	10.44	10.74	0.9720670	0
## 377	2010-06-21	Monday	10.00	10.44	0.9578544	0
## 378	2010-06-23	Wednesday	9.58	9.47	1.0116156	1
## 379	2010-06-24	Thursday	9.57	9.58	0.9989562	0
## 380	2010-06-28	Monday	9.08	9.16	0.9912664	0
## 381	2010-06-30	Wednesday	8.61	8.54	1.0081967	1
## 382	2010-07-06	Tuesday	8.08	8.19	0.9865690	0
## 383	2010-07-07	Wednesday	9.32	8.08	1.1534653	1
## 384	2010-07-08	Thursday	9.54	9.32	1.0236052	1
## 385	2010-07-12	Monday	9.20	9.54	0.9643606	0
## 386	2010-07-16	Friday	8.95	9.11	0.9824369	0
## 387	2010-07-19	Monday	8.62	8.95	0.9631285	0
## 388	2010-07-21	Wednesday	9.21	8.92	1.0325112	1
## 389	2010-08-20	Friday	9.10	9.19	0.9902067	0
## 390	2010-08-25	Wednesday	8.78	8.75	1.0034286	1
## 391	2010-08-31	Tuesday	9.04	8.87	1.0191657	1
## 392	2010-09-01	Wednesday	9.56	9.04	1.0575221	1
## 393	2010-09-03	Friday	9.97	9.65	1.0331606	1
## 394	2010-09-08	Wednesday	9.49	9.54	0.9947589	0
## 395	2010-09-17	Friday	9.08	9.12	0.9956140	0
## 396	2010-09-21	Tuesday	9.54	9.21	1.0358306	1
## 397	2010-09-22	Wednesday	8.96	9.54	0.9392034	0
## 398	2010-09-23	Thursday	8.83	8.96	0.9854911	0
## 399	2010-10-01	Friday	9.29	9.25	1.0043243	1
## 400	2010-10-05	Tuesday	9.23	9.12	1.0120614	1
## 401	2010-10-07	Thursday	9.24	9.23	1.0010834	1
## 402	2010-10-12	Tuesday	9.55	9.00	1.0611111	1
## 403	2010-10-13	Wednesday	9.80	9.55	1.0261780	1
## 404	2010-10-15	Friday	9.70	9.78	0.9918200	0
## 405	2010-10-19	Tuesday	10.09	10.12	0.9970356	0
## 406	2010-10-26	Tuesday	11.73	11.58	1.0129534	1
## 407	2010-10-29	Friday	11.79	11.88	0.9924242	0
## 408	2010-11-08	Monday	11.23	11.57	0.9706137	0
## 409	2010-11-12	Friday	10.63	10.82	0.9824399	0
## 410	2010-11-15	Monday	10.71	10.63	1.0075259	1
## 411	2010-11-16	Tuesday	10.69	10.71	0.9981326	0
## 412	2010-11-22	Monday	11.18	11.08	1.0090253	1
## 413	2010-11-24	Wednesday	11.74	11.10	1.0576577	1

## 414	2010-11-29	Monday	11.28	11.70	0.9641026	0
## 415	2010-12-06	Monday	11.15	11.04	1.0099638	1
## 416	2010-12-10	Friday	10.93	10.91	1.0018332	1
## 417	2010-12-17	Friday	10.06	10.13	0.9930898	0
## 418	2010-12-21	Tuesday	10.52	10.18	1.0333988	1
## 419	2010-12-28	Tuesday	9.89	9.87	1.0020263	1
## 420	2011-01-04	Tuesday	10.62	10.65	0.9971831	0
## 421	2011-01-10	Monday	11.47	11.40	1.0061404	1
## 422	2011-01-24	Monday	10.10	9.83	1.0274669	1
## 423	2011-01-31	Monday	9.92	10.16	0.9763780	0
## 424	2011-02-22	Tuesday	9.17	9.72	0.9434156	0
## 425	2011-02-23	Wednesday	8.49	9.17	0.9258451	0
## 426	2011-02-28	Monday	8.61	8.57	1.0046674	1
## 427	2011-03-02	Wednesday	7.97	7.95	1.0025157	1
## 428	2011-03-11	Friday	9.18	9.09	1.0099010	1
## 429	2011-03-29	Tuesday	8.87	9.02	0.9833703	0
## 430	2011-03-30	Wednesday	8.97	8.87	1.0112740	1
## 431	2011-04-04	Monday	8.74	8.78	0.9954442	0
## 432	2011-04-06	Wednesday	8.40	8.45	0.9940828	0
## 433	2011-04-18	Monday	8.33	8.09	1.0296663	1
## 434	2011-04-21	Thursday	8.13	8.14	0.9987715	0
## 435	2011-04-29	Friday	9.09	8.77	1.0364880	1
## 436	2011-05-05	Thursday	9.82	9.30	1.0559140	1
## 437	2011-05-13	Friday	9.41	9.62	0.9781705	0
## 438	2011-05-17	Tuesday	9.80	9.94	0.9859155	0
## 439	2011-05-19	Thursday	10.32	9.67	1.0672182	1
## 440	2011-05-25	Wednesday	9.27	9.74	0.9517454	0
## 441	2011-05-27	Friday	9.12	9.25	0.9859459	0
## 442	2011-06-01	Wednesday	9.04	9.10	0.9934066	0
## 443	2011-06-02	Thursday	9.11	9.04	1.0077434	1
## 444	2011-06-03	Friday	8.89	9.11	0.9758507	0
## 445	2011-06-09	Thursday	8.04	8.26	0.9733656	0
## 446	2011-06-14	Tuesday	8.17	8.21	0.9951279	0
## 447	2011-06-15	Wednesday	8.23	8.17	1.0073439	1
## 448	2011-06-17	Friday	8.40	8.23	1.0206561	1
## 449	2011-06-20	Monday	8.60	8.40	1.0238095	1
## 450	2011-06-23	Thursday	8.91	8.48	1.0507075	1
## 451	2011-07-01	Friday	8.94	8.91	1.0033670	1
## 452	2011-07-07	Thursday	8.39	8.34	1.0059952	1
## 453	2011-07-12	Tuesday	7.95	8.06	0.9863524	0
## 454	2011-07-13	Wednesday	7.90	7.95	0.9937107	0
## 455	2011-07-18	Monday	7.03	7.44	0.9448925	0
## 456	2011-07-19	Tuesday	7.01	7.03	0.9971550	0
## 457	2011-07-20	Wednesday	6.90	7.01	0.9843081	0
## 458	2011-07-28	Thursday	5.98	6.18	0.9676375	0
## 459	2011-08-02	Tuesday	5.52	5.96	0.9261745	0
## 460	2011-08-05	Friday	5.52	5.63	0.9804618	0
## 461	2011-08-18	Thursday	5.35	5.69	0.9402460	0
## 462	2011-08-22	Monday	5.11	5.14	0.9941634	0
## 463	2011-08-23	Tuesday	5.33	5.11	1.0430528	1

## 464	2011-08-25	Thursday	5.08	5.30	0.9584906	0
## 465	2011-08-26	Friday	5.26	5.08	1.0354331	1
## 466	2011-08-30	Tuesday	5.52	5.55	0.9945946	0
## 467	2011-09-08	Thursday	5.14	5.21	0.9865643	0
## 468	2011-09-13	Tuesday	5.64	4.85	1.1628866	1
## 469	2011-10-06	Thursday	5.35	5.17	1.0348162	1
## 470	2011-10-07	Friday	5.21	5.35	0.9738318	0
## 471	2011-10-13	Thursday	6.30	6.23	1.0112360	1
## 472	2011-10-17	Monday	5.85	6.04	0.9685430	0
## 473	2011-10-19	Wednesday	5.76	6.02	0.9568106	0
## 474	2011-10-28	Friday	5.94	5.83	1.0188679	1
## 475	2011-11-01	Tuesday	5.50	5.77	0.9532062	0
## 476	2011-11-10	Thursday	4.85	5.05	0.9603960	0
## 477	2011-11-14	Monday	4.98	5.01	0.9940120	0
## 478	2011-11-16	Wednesday	4.50	4.78	0.9414226	0
## 479	2011-11-29	Tuesday	4.46	4.27	1.0444965	1
## 480	2011-12-09	Friday	5.62	5.34	1.0524345	1
## 481	2011-12-13	Tuesday	5.19	5.63	0.9218472	0
## 482	2011-12-15	Thursday	5.71	5.59	1.0214669	1
## 483	2011-12-23	Friday	5.62	5.70	0.9859649	0
## 484	2011-12-28	Wednesday	5.19	5.40	0.9611111	0
## 485	2011-12-29	Thursday	5.23	5.19	1.0077071	1
## 486	2012-01-17	Tuesday	5.88	5.97	0.9849246	0
## 487	2012-01-18	Wednesday	6.04	5.88	1.0272109	1
## 488	2012-01-19	Thursday	6.26	6.04	1.0364238	1
## 489	2012-01-24	Tuesday	6.41	6.26	1.0239617	1
## 490	2012-01-31	Tuesday	8.44	8.52	0.9906103	0
## 491	2012-02-01	Wednesday	8.90	8.44	1.0545024	1
## 492	2012-02-08	Wednesday	9.10	9.24	0.9848485	0
## 493	2012-02-09	Thursday	8.96	9.10	0.9846154	0
## 494	2012-02-10	Friday	8.85	8.96	0.9877232	0
## 495	2012-02-16	Thursday	9.10	8.89	1.0236220	1
## 496	2012-03-01	Thursday	7.41	7.41	1.0000000	0
## 497	2012-03-02	Friday	7.63	7.41	1.0296896	1
## 498	2012-03-12	Monday	6.89	7.03	0.9800853	0
## 499	2012-03-13	Tuesday	6.96	6.89	1.0101597	1
## 500	2012-03-16	Friday	7.15	7.58	0.9432718	0
## 501	2012-03-19	Monday	7.19	7.15	1.0055944	1
## 502	2012-03-23	Friday	7.55	7.33	1.0300136	1
## 503	2012-03-30	Friday	7.59	7.89	0.9619772	0
## 504	2012-04-05	Thursday	7.78	7.86	0.9898219	0
## 505	2012-04-09	Monday	7.75	7.78	0.9961440	0
## 506	2012-04-10	Tuesday	7.47	7.75	0.9638710	0
## 507	2012-04-13	Friday	7.84	7.89	0.9936629	0
## 508	2012-04-17	Tuesday	8.18	8.13	1.0061501	1
## 509	2012-04-20	Friday	9.34	9.51	0.9821241	0
## 510	2012-04-23	Monday	9.03	9.34	0.9668094	0
## 511	2012-04-25	Wednesday	9.60	9.31	1.0311493	1
## 512	2012-04-27	Friday	10.31	9.80	1.0520408	1
## 513	2012-04-30	Monday	10.26	10.31	0.9951503	0

## 514	2012-05-04	Friday	10.70	10.71	0.9990663	0
## 515	2012-05-25	Friday	12.30	12.16	1.0115132	1
## 516	2012-06-05	Tuesday	11.62	11.18	1.0393560	1
## 517	2012-06-26	Tuesday	12.88	12.65	1.0181818	1
## 518	2012-06-27	Wednesday	13.31	12.88	1.0333851	1
## 519	2012-06-28	Thursday	13.40	13.31	1.0067618	1
## 520	2012-07-19	Thursday	12.50	13.42	0.9314456	0
## 521	2012-07-25	Wednesday	11.15	11.59	0.9620362	0
## 522	2012-07-27	Friday	11.35	11.19	1.0142985	1
## 523	2012-07-30	Monday	11.29	11.35	0.9947137	0
## 524	2012-07-31	Tuesday	11.46	11.29	1.0150576	1
## 525	2012-08-06	Monday	10.81	10.89	0.9926538	0
## 526	2012-08-07	Tuesday	9.94	10.81	0.9195190	0
## 527	2012-08-14	Tuesday	10.12	10.12	1.0000000	0
## 528	2012-08-17	Friday	10.08	9.91	1.0171544	1
## 529	2012-08-20	Monday	10.59	10.08	1.0505952	1
## 530	2012-08-23	Thursday	11.04	11.61	0.9509044	0
## 531	2012-08-28	Tuesday	10.81	11.04	0.9791667	0
## 532	2012-08-29	Wednesday	10.45	10.81	0.9666975	0
## 533	2012-08-30	Thursday	10.40	10.45	0.9952153	0
## 534	2012-09-10	Monday	12.00	12.14	0.9884679	0
## 535	2012-09-13	Thursday	11.25	11.82	0.9517766	0
## 536	2012-09-27	Thursday	10.36	10.50	0.9866667	0
## 537	2012-10-09	Tuesday	11.30	11.57	0.9766638	0
## 538	2012-10-12	Friday	11.36	11.17	1.0170098	1
## 539	2012-10-16	Tuesday	11.58	11.42	1.0140105	1
## 540	2012-10-31	Wednesday	12.18	11.92	1.0218121	1
## 541	2012-11-14	Wednesday	12.01	12.59	0.9539317	0
## 542	2012-11-16	Friday	11.76	12.06	0.9751244	0
## 543	2012-11-26	Monday	12.92	12.50	1.0336000	1
## 544	2012-11-30	Friday	12.89	13.00	0.9915385	0
## 545	2012-12-03	Monday	12.66	12.89	0.9821567	0
## 546	2012-12-05	Wednesday	12.11	12.38	0.9781906	0
## 547	2012-12-12	Wednesday	12.70	12.88	0.9860248	0
## 548	2012-12-17	Monday	12.79	12.83	0.9968823	0
## 549	2012-12-18	Tuesday	12.95	12.79	1.0125098	1
## 550	2012-12-21	Friday	13.44	13.54	0.9926145	0
## 551	2012-12-26	Wednesday	13.23	13.33	0.9924981	0
## 552	2012-12-31	Monday	13.50	12.79	1.0555121	1
## 553	2013-01-03	Thursday	13.66	13.98	0.9771102	0
## 554	2013-01-04	Friday	14.73	13.66	1.0783309	1
## 555	2013-01-10	Thursday	15.14	15.13	1.0006609	1
## 556	2013-01-11	Friday	14.78	15.14	0.9762219	0
## 557	2013-01-14	Monday	14.67	14.78	0.9925575	0
## 558	2013-01-22	Tuesday	14.85	14.44	1.0283934	1
## 559	2013-01-29	Tuesday	14.42	15.03	0.9594145	0
## 560	2013-02-05	Tuesday	14.09	13.99	1.0071480	1
## 561	2013-02-06	Wednesday	14.56	14.09	1.0333570	1
## 562	2013-02-21	Thursday	13.37	13.33	1.0030008	1
## 563	2013-02-25	Monday	13.02	13.57	0.9594694	0

## 564	2013-02-26	Tuesday	13.26	13.02	1.0184332	1
## 565	2013-02-27	Wednesday	13.41	13.26	1.0113122	1
## 566	2013-03-04	Monday	13.90	13.61	1.0213079	1
## 567	2013-03-07	Thursday	14.82	14.57	1.0171585	1
## 568	2013-03-08	Friday	14.92	14.82	1.0067476	1
## 569	2013-03-11	Monday	15.13	14.92	1.0140751	1
## 570	2013-03-12	Tuesday	15.50	15.13	1.0244547	1
## 571	2013-03-18	Monday	16.29	15.98	1.0193993	1
## 572	2013-04-09	Tuesday	15.70	15.84	0.9911616	0
## 573	2013-04-10	Wednesday	15.78	15.70	1.0050955	1
## 574	2013-04-16	Tuesday	16.37	15.59	1.0500321	1
## 575	2013-04-17	Wednesday	16.52	16.37	1.0091630	1
## 576	2013-04-19	Friday	16.02	16.10	0.9950311	0
## 577	2013-04-23	Tuesday	16.30	15.52	1.0502577	1
## 578	2013-04-24	Wednesday	16.45	16.30	1.0092026	1
## 579	2013-04-30	Tuesday	16.90	16.81	1.0053540	1
## 580	2013-05-09	Thursday	17.38	17.34	1.0023067	1
## 581	2013-05-15	Wednesday	18.81	18.10	1.0392265	1
## 582	2013-05-20	Monday	18.59	19.01	0.9779064	0
## 583	2013-05-24	Friday	18.21	18.19	1.0010994	1
## 584	2013-05-30	Thursday	17.67	17.83	0.9910264	0
## 585	2013-06-04	Tuesday	17.65	17.73	0.9954879	0
## 586	2013-06-10	Monday	17.26	17.02	1.0141011	1
## 587	2013-06-12	Wednesday	16.88	16.92	0.9976359	0
## 588	2013-06-14	Friday	16.93	17.01	0.9952969	0
## 589	2013-06-18	Tuesday	17.22	16.95	1.0159291	1
## 590	2013-06-20	Thursday	16.73	17.06	0.9806566	0
## 591	2013-06-21	Friday	16.34	16.73	0.9766886	0
## 592	2013-06-25	Tuesday	16.46	16.13	1.0204588	1
## 593	2013-07-02	Tuesday	16.43	16.80	0.9779762	0
## 594	2013-07-10	Wednesday	17.17	17.36	0.9890552	0
## 595	2013-07-12	Friday	17.56	17.37	1.0109383	1
## 596	2013-07-16	Tuesday	17.95	17.76	1.0106983	1
## 597	2013-07-19	Friday	18.23	18.42	0.9896851	0
## 598	2013-07-23	Tuesday	18.05	18.15	0.9944903	0
## 599	2013-07-30	Tuesday	19.20	19.23	0.9984400	0
## 600	2013-08-07	Wednesday	18.87	18.92	0.9973573	0
## 601	2013-08-08	Thursday	18.98	18.87	1.0058293	1
## 602	2013-08-21	Wednesday	15.81	15.80	1.0006329	1
## 603	2013-08-26	Monday	16.21	16.16	1.0030940	1
## 604	2013-08-29	Thursday	15.96	15.34	1.0404172	1
## 605	2013-09-10	Tuesday	18.12	17.47	1.0372068	1
## 606	2013-09-12	Thursday	17.63	17.72	0.9949210	0
## 607	2013-09-17	Tuesday	18.72	18.07	1.0359712	1
## 608	2013-09-23	Monday	18.86	18.89	0.9984120	0
## 609	2013-10-03	Thursday	20.48	19.84	1.0322581	1
## 610	2013-10-15	Tuesday	20.50	20.58	0.9961127	0
## 611	2013-10-22	Tuesday	21.95	21.22	1.0344016	1
## 612	2013-10-23	Wednesday	21.40	21.95	0.9749430	0
## 613	2013-10-25	Friday	22.15	22.67	0.9770622	0

## 614	2013-10-30	Wednesday	22.58	22.37	1.0093875	1
## 615	2013-10-31	Thursday	21.97	22.58	0.9729849	0
## 616	2013-11-08	Friday	23.21	22.08	1.0511775	1
## 617	2013-11-14	Thursday	23.66	23.31	1.0150151	1
## 618	2013-11-20	Wednesday	24.06	24.23	0.9929839	0
## 619	2013-11-22	Friday	24.27	23.99	1.0116715	1
## 620	2013-11-26	Tuesday	23.81	24.24	0.9822607	0
## 621	2013-11-29	Friday	23.48	23.98	0.9791493	0
## 622	2013-12-10	Tuesday	24.88	24.60	1.0113821	1
## 623	2013-12-19	Thursday	26.12	26.23	0.9958064	0
## 624	2013-12-23	Monday	26.18	26.33	0.9943031	0
## 625	2014-01-06	Monday	27.03	26.54	1.0184627	1
## 626	2014-01-17	Friday	30.02	29.34	1.0231766	1
## 627	2014-01-21	Tuesday	30.66	30.02	1.0213191	1
## 628	2014-01-22	Wednesday	31.20	30.66	1.0176126	1
## 629	2014-01-23	Thursday	31.35	31.20	1.0048077	1
## 630	2014-01-27	Monday	30.18	30.40	0.9927632	0
## 631	2014-01-30	Thursday	33.80	32.98	1.0248635	1
## 632	2014-02-03	Monday	33.96	33.55	1.0122206	1
## 633	2014-02-11	Tuesday	35.13	35.58	0.9873524	0
## 634	2014-02-21	Friday	36.17	35.66	1.0143017	1
## 635	2014-02-25	Tuesday	37.00	36.65	1.0095497	1
## 636	2014-02-26	Wednesday	36.75	37.00	0.9932432	0
## 637	2014-03-03	Monday	36.10	36.93	0.9775250	0
## 638	2014-03-06	Thursday	38.81	37.86	1.0250924	1
## 639	2014-03-07	Friday	39.02	38.81	1.0054110	1
## 640	2014-03-12	Wednesday	37.56	38.08	0.9863445	0
## 641	2014-03-18	Tuesday	37.35	37.70	0.9907161	0
## 642	2014-03-19	Wednesday	37.08	37.35	0.9927712	0
## 643	2014-03-24	Monday	36.80	36.11	1.0191082	1
## 644	2014-03-25	Tuesday	37.90	36.80	1.0298914	1
## 645	2014-03-28	Friday	35.39	35.77	0.9893765	0
## 646	2014-03-31	Monday	36.60	35.39	1.0341904	1
## 647	2014-04-01	Tuesday	37.94	36.60	1.0366121	1
## 648	2014-04-04	Friday	36.56	37.34	0.9791109	0
## 649	2014-04-07	Monday	35.78	36.56	0.9786652	0
## 650	2014-04-16	Wednesday	35.51	33.72	1.0530841	1
## 651	2014-04-22	Tuesday	36.16	35.67	1.0137371	1
## 652	2014-04-28	Monday	35.16	36.00	0.9766667	0
## 653	2014-05-01	Thursday	36.39	35.07	1.0376390	1
## 654	2014-05-02	Friday	36.49	36.39	1.0027481	1
## 655	2014-05-06	Tuesday	36.67	36.60	1.0019126	1
## 656	2014-05-15	Thursday	38.19	38.84	0.9832646	0
## 657	2014-05-16	Friday	38.53	38.19	1.0089029	1
## 658	2014-05-19	Monday	38.57	38.53	1.0010382	1
## 659	2014-05-20	Tuesday	38.24	38.57	0.9914442	0
## 660	2014-05-22	Thursday	38.72	38.32	1.0104384	1
## 661	2014-06-02	Monday	41.22	40.16	1.0263944	1
## 662	2014-06-03	Tuesday	41.44	41.22	1.0053372	1
## 663	2014-06-09	Monday	43.59	43.88	0.9933910	0

## 664	2014-06-12	Thursday	40.20	42.29	0.9505793	0
## 665	2014-06-13	Friday	40.38	40.20	1.0044776	1
## 666	2014-06-17	Tuesday	41.87	41.06	1.0197272	1
## 667	2014-06-26	Thursday	44.55	43.91	1.0145752	1
## 668	2014-06-27	Friday	44.00	44.55	0.9876543	0
## 669	2014-06-30	Monday	42.96	44.00	0.9763636	0
## 670	2014-07-16	Wednesday	43.48	43.70	0.9949657	0
## 671	2014-07-17	Thursday	41.70	43.48	0.9590617	0
## 672	2014-07-21	Monday	42.48	42.92	0.9897484	0
## 673	2014-07-22	Tuesday	42.38	42.48	0.9976460	0
## 674	2014-08-04	Monday	38.14	39.43	0.9672838	0
## 675	2014-08-08	Friday	37.18	36.86	1.0086815	1
## 676	2014-08-11	Monday	37.97	37.18	1.0212480	1
## 677	2014-08-21	Thursday	39.51	40.60	0.9731527	0
## 678	2014-08-22	Friday	39.85	39.51	1.0086054	1
## 679	2014-08-27	Wednesday	38.99	39.09	0.9974419	0
## 680	2014-08-29	Friday	38.88	39.17	0.9925965	0
## 681	2014-09-18	Thursday	38.05	37.46	1.0157501	1
## 682	2014-09-24	Wednesday	36.12	35.33	1.0223605	1
## 683	2014-09-25	Thursday	35.21	36.12	0.9748062	0
## 684	2014-09-26	Friday	35.93	35.21	1.0204488	1
## 685	2014-09-29	Monday	35.03	35.93	0.9749513	0
## 686	2014-10-01	Wednesday	34.39	35.48	0.9692784	0
## 687	2014-10-02	Thursday	33.93	34.39	0.9866240	0
## 688	2014-10-07	Tuesday	34.09	34.93	0.9759519	0
## 689	2014-10-10	Friday	30.78	31.98	0.9624766	0
## 690	2014-10-13	Monday	28.58	30.78	0.9285250	0
## 691	2014-10-30	Thursday	40.30	39.94	1.0090135	1
## 692	2014-11-03	Monday	42.00	41.35	1.0157195	1
## 693	2014-11-13	Thursday	44.12	43.43	1.0158876	1
## 694	2014-11-17	Monday	43.69	44.01	0.9927289	0
## 695	2014-11-19	Wednesday	44.10	45.05	0.9789123	0
## 696	2014-11-28	Friday	48.53	44.97	1.0791638	1
## 697	2014-12-02	Tuesday	47.86	47.88	0.9995823	0
## 698	2014-12-09	Tuesday	48.31	50.82	0.9506100	0
## 699	2014-12-11	Thursday	50.53	48.94	1.0324888	1
## 700	2014-12-15	Monday	50.84	49.97	1.0174104	1
## 701	2014-12-17	Wednesday	48.80	47.96	1.0175146	1
## 702	2014-12-18	Thursday	50.14	48.80	1.0274590	1
## 703	2015-01-02	Friday	53.91	53.63	1.0052209	1
## 704	2015-01-06	Tuesday	53.04	53.88	0.9844098	0
## 705	2015-01-07	Wednesday	53.01	53.04	0.9994343	0
## 706	2015-01-08	Thursday	53.66	53.01	1.0122619	1
## 707	2015-01-13	Tuesday	50.40	49.58	1.0165389	1
## 708	2015-01-15	Thursday	49.41	49.41	1.0000000	0
## 709	2015-01-20	Tuesday	52.75	49.81	1.0590243	1
## 710	2015-01-23	Friday	55.69	55.59	1.0017989	1
## 711	2015-01-29	Thursday	52.24	50.62	1.0320032	1
## 712	2015-01-30	Friday	49.08	52.24	0.9395100	0
## 713	2015-02-02	Monday	48.72	49.08	0.9926650	0

## 714	2015-02-03	Tuesday	47.50	48.72	0.9749589	0
## 715	2015-02-05	Thursday	48.81	49.46	0.9868581	0
## 716	2015-02-11	Wednesday	47.59	48.05	0.9904267	0
## 717	2015-02-18	Wednesday	49.31	48.01	1.0270778	1
## 718	2015-02-23	Monday	51.31	51.02	1.0056841	1
## 719	2015-02-27	Friday	47.90	49.35	0.9706181	0
## 720	2015-03-03	Tuesday	48.77	48.31	1.0095218	1
## 721	2015-03-06	Friday	48.00	48.40	0.9917355	0
## 722	2015-03-09	Monday	47.92	48.00	0.9983333	0
## 723	2015-03-10	Tuesday	46.74	47.92	0.9753757	0
## 724	2015-03-11	Wednesday	47.39	46.74	1.0139067	1
## 725	2015-03-12	Thursday	48.68	47.39	1.0272210	1
## 726	2015-03-16	Monday	50.22	49.22	1.0203169	1
## 727	2015-03-20	Friday	55.76	55.19	1.0103279	1
## 728	2015-03-23	Monday	54.40	55.76	0.9756098	0
## 729	2015-03-30	Monday	53.64	52.66	1.0186099	1
## 730	2015-04-06	Monday	48.08	49.18	0.9776332	0
## 731	2015-04-20	Monday	49.76	48.19	1.0325794	1
## 732	2015-04-23	Thursday	51.45	51.40	1.0009727	1
## 733	2015-04-24	Friday	52.71	51.45	1.0244898	1
## 734	2015-05-01	Friday	49.39	48.29	1.0227790	1
## 735	2015-05-11	Monday	49.65	49.04	1.0124388	1
## 736	2015-05-14	Thursday	48.82	48.49	1.0068055	1
## 737	2015-05-27	Wednesday	42.24	41.56	1.0163619	1
## 738	2015-06-01	Monday	44.18	42.37	1.0427189	1
## 739	2015-06-02	Tuesday	43.78	44.18	0.9909461	0
## 740	2015-06-10	Wednesday	40.43	40.33	1.0024795	1
## 741	2015-06-16	Tuesday	39.48	40.07	0.9852758	0
## 742	2015-06-22	Monday	43.03	41.56	1.0353705	1
## 743	2015-06-23	Tuesday	42.73	43.03	0.9930281	0
## 744	2015-06-24	Wednesday	42.24	42.73	0.9885327	0
## 745	2015-06-25	Thursday	42.24	42.24	1.0000000	0
## 746	2015-06-29	Monday	39.75	41.44	0.9592182	0
## 747	2015-07-02	Thursday	39.03	38.80	1.0059278	1
## 748	2015-07-08	Wednesday	39.31	40.67	0.9665602	0
## 749	2015-07-10	Friday	41.21	39.67	1.0388203	1
## 750	2015-07-14	Tuesday	42.06	42.42	0.9915135	0
## 751	2015-07-24	Friday	39.63	42.61	0.9300634	0
## 752	2015-07-28	Tuesday	41.17	40.14	1.0256602	1
## 753	2015-07-31	Friday	40.10	40.27	0.9957784	0
## 754	2015-08-07	Friday	41.49	42.18	0.9836416	0
## 755	2015-08-10	Monday	41.68	41.49	1.0045794	1
## 756	2015-08-17	Monday	43.95	42.88	1.0249534	1
## 757	2015-08-19	Wednesday	43.53	43.63	0.9977080	0
## 758	2015-08-24	Monday	37.62	39.75	0.9464151	0
## 759	2015-08-28	Friday	38.62	39.03	0.9894953	0
## 760	2015-09-02	Wednesday	41.51	39.20	1.0589285	1
## 761	2015-09-09	Wednesday	41.00	40.80	1.0049020	1
## 762	2015-09-15	Tuesday	42.64	42.29	1.0082761	1
## 763	2015-09-18	Friday	43.49	43.99	0.9886338	0

## 764	2015-09-22	Tuesday	41.19	43.23	0.9528105	0
## 765	2015-09-23	Wednesday	41.24	41.19	1.0012140	1
## 766	2015-09-24	Thursday	40.25	41.24	0.9759941	0
## 767	2015-10-08	Thursday	39.74	39.31	1.0109387	1
## 768	2015-10-12	Monday	43.84	42.42	1.0334748	1
## 769	2015-10-19	Monday	44.45	43.71	1.0169298	1
## 770	2015-10-28	Wednesday	45.86	46.46	0.9870857	0
## 771	2015-10-29	Thursday	45.86	45.86	1.0000000	0
## 772	2015-11-06	Friday	45.34	45.60	0.9942983	0
## 773	2015-11-17	Tuesday	42.30	42.83	0.9876254	0
## 774	2015-11-18	Wednesday	41.75	42.30	0.9869977	0
## 775	2015-11-20	Friday	42.20	42.30	0.9976360	0
## 776	2015-11-23	Monday	42.30	42.20	1.0023696	1
## 777	2015-11-24	Tuesday	41.23	42.30	0.9747045	0
## 778	2015-11-27	Friday	41.69	41.31	1.0091987	1
## 779	2015-12-07	Monday	45.78	44.97	1.0180120	1
## 780	2015-12-11	Friday	42.09	44.09	0.9546382	0
## 781	2015-12-15	Tuesday	42.60	41.77	1.0198707	1
## 782	2015-12-16	Wednesday	43.20	42.60	1.0140846	1
## 783	2015-12-17	Thursday	42.46	43.20	0.9828703	0
## 784	2015-12-21	Monday	42.40	41.09	1.0318813	1
## 785	2015-12-24	Thursday	43.81	43.29	1.0120120	1
## 786	2015-12-30	Wednesday	42.80	43.50	0.9839080	0
## 787	2016-01-04	Monday	40.91	42.35	0.9659977	0
## 788	2016-01-05	Tuesday	40.52	40.91	0.9904669	0
## 789	2016-01-06	Wednesday	41.23	40.52	1.0175222	1
## 790	2016-01-11	Monday	41.08	40.37	1.0175874	1
## 791	2016-01-12	Tuesday	42.00	41.08	1.0223953	1
## 792	2016-01-13	Wednesday	40.10	42.00	0.9547619	0
## 793	2016-01-14	Thursday	40.55	40.10	1.0112220	1
## 794	2016-01-15	Friday	38.76	40.55	0.9558569	0
## 795	2016-01-25	Monday	38.88	40.16	0.9681275	0
## 796	2016-01-29	Friday	38.99	38.14	1.0222864	1
## 797	2016-02-04	Thursday	38.21	37.51	1.0186617	1
## 798	2016-02-10	Wednesday	37.12	36.19	1.0256977	1
## 799	2016-02-12	Friday	37.82	36.49	1.0364483	1
## 800	2016-02-18	Thursday	39.54	39.34	1.0050839	1
## 801	2016-02-29	Monday	41.00	40.87	1.0031808	1
## 802	2016-03-08	Tuesday	40.77	42.13	0.9677189	0
## 803	2016-03-16	Wednesday	42.31	42.11	1.0047495	1
## 804	2016-03-28	Monday	40.91	40.50	1.0101235	1
## 805	2016-04-11	Monday	38.73	38.50	1.0059740	1
## 806	2016-04-14	Thursday	41.17	39.94	1.0307962	1
## 807	2016-05-04	Wednesday	33.21	34.58	0.9603816	0
## 808	2016-05-19	Thursday	32.15	32.61	0.9858939	0
## 809	2016-05-24	Tuesday	32.15	31.73	1.0132367	1
## 810	2016-05-31	Tuesday	31.91	31.65	1.0082148	1
## 811	2016-06-09	Thursday	33.40	32.51	1.0273763	1
## 812	2016-06-14	Tuesday	30.36	31.80	0.9547170	0
## 813	2016-06-16	Thursday	29.14	30.49	0.9557232	0

## 814	2016-06-17	Friday	29.34	29.14	1.0068635	1
## 815	2016-06-20	Monday	29.71	29.34	1.0126107	1
## 816	2016-06-22	Wednesday	29.89	30.02	0.9956695	0
## 817	2016-06-29	Wednesday	27.70	26.77	1.0347404	1
## 818	2016-07-06	Wednesday	28.35	28.93	0.9799516	0
## 819	2016-07-07	Thursday	29.40	28.35	1.0370370	1
## 820	2016-07-08	Friday	30.04	29.40	1.0217687	1
## 821	2016-07-11	Monday	31.16	30.04	1.0372836	1
## 822	2016-07-20	Wednesday	35.92	36.01	0.9975007	0
## 823	2016-07-21	Thursday	34.96	35.92	0.9732740	0
## 824	2016-07-28	Thursday	36.34	36.20	1.0038674	1
## 825	2016-08-02	Tuesday	33.51	35.60	0.9412921	0
## 826	2016-08-05	Friday	34.44	33.58	1.0256104	1
## 827	2016-08-09	Tuesday	34.59	34.35	1.0069870	1
## 828	2016-08-12	Friday	34.92	34.96	0.9988558	0
## 829	2016-08-15	Monday	35.87	34.92	1.0272051	1
## 830	2016-08-18	Thursday	36.67	36.60	1.0019126	1
## 831	2016-08-24	Wednesday	36.65	36.40	1.0068681	1
## 832	2016-08-26	Friday	36.23	36.72	0.9866557	0
## 833	2016-08-31	Wednesday	36.30	37.05	0.9797571	0
## 834	2016-09-01	Thursday	36.24	36.30	0.9983472	0
## 835	2016-09-14	Wednesday	36.39	37.37	0.9737758	0
## 836	2016-09-23	Friday	35.55	35.25	1.0085106	1
## 837	2016-10-06	Thursday	38.17	37.87	1.0079218	1
## 838	2016-10-14	Friday	38.65	39.24	0.9849643	0
## 839	2016-10-24	Monday	39.83	39.90	0.9982456	0
## 840	2016-10-25	Tuesday	39.69	39.83	0.9964850	0
## 841	2016-10-27	Thursday	39.91	39.32	1.0150051	1
## 842	2016-11-01	Tuesday	39.80	40.60	0.9802956	0
## 843	2016-11-02	Wednesday	39.71	39.80	0.9977387	0
## 844	2016-11-03	Thursday	39.38	39.71	0.9916898	0
## 845	2016-11-08	Tuesday	41.70	41.49	1.0050614	1
## 846	2016-11-11	Friday	42.93	42.30	1.0148936	1
## 847	2016-11-16	Wednesday	44.45	44.76	0.9930742	0
## 848	2016-11-18	Friday	46.26	45.83	1.0093824	1
## 849	2016-11-23	Wednesday	46.34	46.08	1.0056423	1
## 850	2016-11-25	Friday	46.82	46.34	1.0103582	1
## 851	2016-11-29	Tuesday	46.89	46.50	1.0083871	1
## 852	2016-12-01	Thursday	45.75	46.44	0.9851421	0
## 853	2016-12-07	Wednesday	48.65	46.43	1.0478140	1
## 854	2016-12-09	Friday	49.64	48.05	1.0330905	1
## 855	2016-12-12	Monday	47.59	49.64	0.9587027	0
## 856	2016-12-30	Friday	46.69	47.25	0.9881481	0
## 857	2017-01-05	Thursday	45.89	46.70	0.9826552	0
## 858	2017-01-12	Thursday	48.10	48.64	0.9888980	0
## 859	2017-01-18	Wednesday	47.64	46.75	1.0190374	1
## 860	2017-01-19	Thursday	47.26	47.64	0.9920235	0
## 861	2017-01-25	Wednesday	47.91	47.54	1.0077829	1
## 862	2017-01-26	Thursday	49.59	47.91	1.0350657	1
## 863	2017-02-08	Wednesday	45.06	45.17	0.9975648	0

## 864	2017-02-14	Tuesday	46.57	47.41	0.9822822	0
## 865	2017-02-24	Friday	46.28	46.10	1.0039046	1
## 866	2017-02-27	Monday	46.32	46.28	1.0008643	1
## 867	2017-03-06	Monday	45.31	46.82	0.9677488	0
## 868	2017-03-08	Wednesday	44.89	44.84	1.0011151	1
## 869	2017-03-13	Monday	42.37	43.90	0.9651480	0
## 870	2017-03-15	Wednesday	42.09	41.21	1.0213541	1
## 871	2017-03-20	Monday	41.70	41.72	0.9995206	0
## 872	2017-03-22	Wednesday	40.35	40.42	0.9982682	0
## 873	2017-03-27	Monday	41.74	41.73	1.0002397	1
## 874	2017-03-28	Tuesday	42.60	41.74	1.0206036	1
## 875	2017-03-30	Thursday	42.54	41.96	1.0138227	1
## 876	2017-04-03	Monday	42.45	42.30	1.0035461	1
## 877	2017-04-05	Wednesday	41.31	40.90	1.0100244	1
## 878	2017-04-06	Thursday	41.72	41.31	1.0099250	1
## 879	2017-04-10	Monday	42.32	41.81	1.0121980	1
## 880	2017-04-25	Tuesday	46.61	46.44	1.0036607	1
## 881	2017-04-28	Friday	42.62	43.98	0.9690768	0
## 882	2017-05-08	Monday	44.94	44.51	1.0096608	1
## 883	2017-05-09	Tuesday	47.08	44.94	1.0476191	1
## 884	2017-05-11	Thursday	46.54	47.30	0.9839324	0
## 885	2017-05-19	Friday	45.22	44.65	1.0127659	1
## 886	2017-05-24	Wednesday	46.77	46.66	1.0023575	1
## 887	2017-05-25	Thursday	48.02	46.77	1.0267265	1
## 888	2017-06-01	Thursday	49.05	48.41	1.0132204	1
## 889	2017-06-09	Friday	50.27	51.43	0.9774451	0
## 890	2017-06-12	Monday	49.48	50.27	0.9842849	0
## 891	2017-06-13	Tuesday	49.45	49.48	0.9993937	0
## 892	2017-06-14	Wednesday	49.39	49.45	0.9987866	0
## 893	2017-06-16	Friday	48.79	49.11	0.9934840	0
## 894	2017-06-20	Tuesday	48.03	49.66	0.9671768	0
## 895	2017-06-22	Thursday	48.97	48.43	1.0111501	1
## 896	2017-06-29	Thursday	49.62	49.25	1.0075127	1
## 897	2017-07-05	Wednesday	51.26	50.39	1.0172653	1
## 898	2017-07-06	Thursday	52.05	51.26	1.0154116	1
## 899	2017-07-07	Friday	53.03	52.05	1.0188281	1
## 900	2017-07-12	Wednesday	53.80	51.61	1.0424336	1
## 901	2017-07-17	Monday	53.87	54.22	0.9935448	0
## 902	2017-07-18	Tuesday	53.15	53.87	0.9866345	0
## 903	2017-07-25	Tuesday	50.61	51.28	0.9869345	0
## 904	2017-08-01	Tuesday	51.06	50.44	1.0122919	1
## 905	2017-08-15	Tuesday	48.52	48.81	0.9940586	0
## 906	2017-08-16	Wednesday	48.41	48.52	0.9977329	0
## 907	2017-08-17	Thursday	46.03	48.41	0.9508366	0
## 908	2017-08-18	Friday	45.55	46.03	0.9895720	0
## 909	2017-08-24	Thursday	42.92	43.97	0.9761200	0
## 910	2017-08-31	Thursday	44.74	44.32	1.0094766	1
## 911	2017-09-01	Friday	45.31	44.74	1.0127403	1
## 912	2017-09-07	Thursday	43.84	44.31	0.9893929	0
## 913	2017-09-12	Tuesday	46.29	45.86	1.0093764	1

## 914	2017-09-27	Wednesday	46.85	47.58	0.9846573	0
## 915	2017-09-28	Thursday	47.49	46.85	1.0136607	1
## 916	2017-10-04	Wednesday	50.73	50.51	1.0043556	1
## 917	2017-10-06	Friday	51.30	50.56	1.0146360	1
## 918	2017-10-11	Wednesday	52.83	53.03	0.9962286	0
## 919	2017-10-13	Friday	52.70	52.65	1.0009496	1
## 920	2017-10-24	Tuesday	51.95	50.98	1.0190271	1
## 921	2017-10-26	Thursday	48.61	51.02	0.9527636	0
## 922	2017-11-17	Friday	47.39	47.68	0.9939178	0
## 923	2017-11-24	Friday	48.56	48.66	0.9979449	0
## 924	2017-11-28	Tuesday	49.22	48.42	1.0165222	1
## 925	2017-11-30	Thursday	50.49	49.25	1.0251777	1
## 926	2017-12-11	Monday	51.30	51.02	1.0054880	1
## 927	2017-12-15	Friday	51.06	50.21	1.0169289	1
## 928	2017-12-22	Friday	52.59	52.79	0.9962114	0
## 929	2017-12-27	Wednesday	52.40	52.85	0.9914854	0
## 930	2018-01-04	Thursday	52.67	52.34	1.0063049	1
## 931	2018-01-11	Thursday	56.42	53.78	1.0490889	1
## 932	2018-01-22	Monday	58.10	58.06	1.0006889	1
## 933	2018-01-23	Tuesday	58.29	58.10	1.0032703	1
## 934	2018-01-24	Wednesday	54.79	58.29	0.9399554	0
## 935	2018-01-30	Tuesday	52.59	52.68	0.9982916	0
## 936	2018-02-01	Thursday	53.88	54.32	0.9918999	0
## 937	2018-02-08	Thursday	48.60	51.40	0.9455252	0
## 938	2018-02-09	Friday	48.36	48.60	0.9950618	0
## 939	2018-02-14	Wednesday	51.07	50.87	1.0039316	1
## 940	2018-02-15	Thursday	51.67	51.07	1.0117485	1
## 941	2018-02-21	Wednesday	52.78	51.72	1.0204949	1
## 942	2018-02-22	Thursday	52.98	52.78	1.0037893	1
## 943	2018-03-07	Wednesday	54.11	53.57	1.0100803	1
## 944	2018-03-12	Monday	56.50	56.07	1.0076690	1
## 945	2018-03-13	Tuesday	56.23	56.50	0.9952212	0
## 946	2018-03-20	Tuesday	55.32	54.62	1.0128158	1
## 947	2018-03-26	Monday	51.86	51.01	1.0166635	1
## 948	2018-03-27	Tuesday	50.90	51.86	0.9814886	0
## 949	2018-03-29	Thursday	51.96	50.85	1.0218289	1
## 950	2018-04-05	Thursday	52.14	52.04	1.0019216	1
## 951	2018-04-18	Wednesday	47.76	45.75	1.0439344	1
## 952	2018-04-20	Friday	46.78	46.88	0.9978669	0
## 953	2018-04-23	Monday	46.68	46.78	0.9978624	0
## 954	2018-04-30	Monday	42.93	43.40	0.9891705	0
## 955	2018-05-02	Wednesday	42.24	43.36	0.9741698	0
## 956	2018-05-03	Thursday	42.11	42.24	0.9969223	0
## 957	2018-05-07	Monday	42.44	42.86	0.9902006	0
## 958	2018-05-08	Tuesday	43.00	42.44	1.0131951	1
## 959	2018-05-11	Friday	42.60	42.04	1.0133206	1
## 960	2018-05-16	Wednesday	44.06	43.19	1.0201436	1
## 961	2018-05-17	Thursday	43.63	44.06	0.9902406	0
## 962	2018-05-23	Wednesday	42.80	42.88	0.9981343	0
## 963	2018-06-05	Tuesday	44.18	44.86	0.9848417	0

## 964	2018-06-06	Wednesday	44.19	44.18	1.0002263	1
## 965	2018-06-19	Tuesday	41.51	42.44	0.9780867	0
## 966	2018-06-21	Thursday	41.49	42.03	0.9871521	0
## 967	2018-06-29	Friday	37.96	38.20	0.9937172	0
## 968	2018-07-05	Thursday	37.99	37.75	1.0063577	1
## 969	2018-07-06	Friday	38.09	37.99	1.0026322	1
## 970	2018-07-17	Tuesday	37.38	37.28	1.0026825	1
## 971	2018-07-26	Thursday	40.02	38.19	1.0479183	1
## 972	2018-07-27	Friday	39.69	40.02	0.9917541	0
## 973	2018-08-01	Wednesday	38.14	39.54	0.9645928	0
## 974	2018-08-02	Thursday	37.93	38.14	0.9944940	0
## 975	2018-08-03	Friday	38.42	37.93	1.0129185	1
## 976	2018-08-09	Thursday	37.92	38.38	0.9880145	0
## 977	2018-08-27	Monday	39.52	38.82	1.0180319	1
## 978	2018-08-30	Thursday	40.40	40.50	0.9975309	0
## 979	2018-09-04	Tuesday	40.77	40.48	1.0071640	1
## 980	2018-09-07	Friday	38.43	38.48	0.9987006	0
## 981	2018-09-20	Thursday	41.89	41.60	1.0069712	1
## 982	2018-10-01	Monday	39.61	41.33	0.9583837	0
## 983	2018-10-02	Tuesday	38.50	39.61	0.9719767	0
## 984	2018-10-04	Thursday	37.92	38.80	0.9773196	0
## 985	2018-10-18	Thursday	32.06	33.57	0.9550194	0
## 986	2018-10-23	Tuesday	32.38	32.16	1.0068408	1
## 987	2018-11-07	Wednesday	36.97	35.17	1.0511801	1
## 988	2018-11-13	Tuesday	37.78	36.86	1.0249593	1
## 989	2018-11-14	Wednesday	38.11	37.78	1.0087348	1
## 990	2018-11-15	Thursday	37.82	38.11	0.9923904	0
## 991	2018-11-19	Monday	35.82	36.75	0.9746939	0
## 992	2018-12-03	Monday	39.65	40.16	0.9873008	0
## 993	2018-12-10	Monday	33.84	33.57	1.0080429	1
## 994	2018-12-13	Thursday	32.46	34.35	0.9449782	0
## 995	2018-12-14	Friday	32.41	32.46	0.9984597	0
## 996	2018-12-24	Monday	29.72	30.78	0.9655620	0
## 997	2018-12-27	Thursday	32.04	32.29	0.9922577	0
## 998	2019-01-04	Friday	32.04	30.06	1.0658683	1
## 999	2019-01-10	Thursday	32.04	33.42	0.9587074	0
## 1000	2019-01-25	Friday	34.98	33.66	1.0392157	1
## 1001	2019-01-31	Thursday	35.77	36.34	0.9843148	0
## 1002	2019-02-05	Tuesday	36.93	36.78	1.0040783	1
## 1003	2019-02-22	Friday	35.49	34.98	1.0145798	1
## 1004	2019-02-25	Monday	35.90	35.49	1.0115525	1
## 1005	2019-03-01	Friday	34.64	35.63	0.9722144	0
## 1006	2019-03-04	Monday	33.72	34.64	0.9734412	0
## 1007	2019-03-06	Wednesday	32.76	33.23	0.9858561	0
## 1008	2019-03-07	Thursday	32.22	32.76	0.9835166	0
## 1009	2019-03-13	Wednesday	31.84	30.92	1.0297542	1
## 1010	2019-03-14	Thursday	32.13	31.84	1.0091081	1
## 1011	2019-03-20	Wednesday	30.96	31.59	0.9800569	0
## 1012	2019-03-21	Thursday	31.45	30.96	1.0158269	1
## 1013	2019-03-22	Friday	30.57	31.45	0.9720190	0

## 1014	2019-03-26	Tuesday	30.21	30.21	1.0000000	0
## 1015	2019-03-27	Wednesday	30.94	30.21	1.0241643	1
## 1016	2019-03-29	Friday	31.76	30.90	1.0278317	1
## 1017	2019-04-10	Wednesday	34.02	33.31	1.0213149	1
## 1018	2019-04-15	Monday	33.75	34.69	0.9729029	0
## 1019	2019-04-22	Monday	33.48	34.37	0.9741054	0
## 1020	2019-04-24	Wednesday	33.99	33.97	1.0005888	1
## 1021	2019-04-29	Monday	33.77	33.06	1.0214761	1
## 1022	2019-05-06	Monday	34.75	34.79	0.9988502	0
## 1023	2019-05-07	Tuesday	33.91	34.75	0.9758273	0
## 1024	2019-05-08	Wednesday	33.75	33.91	0.9952816	0
## 1025	2019-05-10	Friday	33.99	33.95	1.0011782	1
## 1026	2019-05-16	Thursday	32.32	32.16	1.0049751	1
## 1027	2019-05-22	Wednesday	29.92	31.30	0.9559106	0
## 1028	2019-06-10	Monday	30.76	30.92	0.9948254	0
## 1029	2019-06-14	Friday	32.68	33.09	0.9876095	0
## 1030	2019-06-19	Wednesday	33.21	32.52	1.0212177	1
## 1031	2019-06-21	Friday	31.57	32.15	0.9819595	0
## 1032	2019-06-26	Wednesday	31.46	31.26	1.0063979	1
## 1033	2019-07-10	Wednesday	32.94	32.36	1.0179233	1
## 1034	2019-07-11	Thursday	33.03	32.94	1.0027322	1
## 1035	2019-07-19	Friday	33.08	33.74	0.9804386	0
## 1036	2019-07-23	Tuesday	33.73	32.90	1.0252279	1
## 1037	2019-08-05	Monday	28.53	29.45	0.9687606	0
## 1038	2019-08-06	Tuesday	28.36	28.53	0.9940414	0
## 1039	2019-08-07	Wednesday	28.63	28.36	1.0095204	1
## 1040	2019-08-14	Wednesday	26.10	27.51	0.9487459	0
## 1041	2019-08-16	Friday	25.79	25.41	1.0149548	1
## 1042	2019-08-23	Friday	25.42	26.53	0.9581605	0
## 1043	2019-09-06	Friday	27.79	27.69	1.0036114	1
## 1044	2019-09-19	Thursday	28.30	28.60	0.9895105	0
## 1045	2019-09-26	Thursday	27.19	27.44	0.9908892	0
## 1046	2019-09-30	Monday	26.97	27.01	0.9985190	0
## 1047	2019-10-03	Thursday	25.27	25.37	0.9960583	0
## 1048	2019-10-07	Monday	25.83	25.83	1.0000000	0
## 1049	2019-10-08	Tuesday	26.26	25.83	1.0166473	1
## 1050	2019-10-09	Wednesday	27.07	26.26	1.0308454	1
## 1051	2019-10-10	Thursday	27.18	27.07	1.0040635	1
## 1052	2019-10-21	Monday	28.62	28.22	1.0141744	1
## 1053	2019-10-22	Tuesday	28.26	28.62	0.9874213	0
## 1054	2019-10-25	Friday	30.86	29.41	1.0493030	1
## 1055	2019-10-28	Monday	31.36	30.86	1.0162022	1
## 1056	2019-10-31	Thursday	30.06	30.29	0.9924067	0
## 1057	2019-11-01	Friday	30.56	30.06	1.0166334	1
## 1058	2019-11-06	Wednesday	30.96	31.18	0.9929442	0
## 1059	2019-11-07	Thursday	30.89	30.96	0.9977390	0
## 1060	2019-11-08	Friday	30.76	30.89	0.9957916	0
## 1061	2019-11-14	Thursday	28.77	28.66	1.0038381	1
## 1062	2019-11-15	Friday	28.86	28.77	1.0031283	1
## 1063	2019-11-19	Tuesday	29.29	28.60	1.0241259	1

## 1064	2019-12-02	Monday	28.08	28.74	0.9770355	0
## 1065	2019-12-05	Thursday	27.24	27.38	0.9948868	0
## 1066	2019-12-09	Monday	27.49	27.73	0.9913451	0
## 1067	2019-12-10	Tuesday	27.00	27.49	0.9821753	0
## 1068	2019-12-12	Thursday	27.72	26.86	1.0320178	1
## 1069	2019-12-13	Friday	27.48	27.72	0.9913420	0
## 1070	2019-12-16	Monday	27.92	27.48	1.0160116	1
## 1071	2019-12-18	Wednesday	28.00	28.28	0.9900990	0
## 1072	2019-12-24	Tuesday	29.18	29.30	0.9959045	0
## 1073	2019-12-26	Thursday	29.67	29.18	1.0167923	1
## 1074	2019-12-27	Friday	28.44	29.67	0.9585440	0
## 1075	2020-01-13	Monday	27.39	27.32	1.0025622	1
## 1076	2020-01-22	Wednesday	27.32	27.20	1.0044117	1
## 1077	2020-01-23	Thursday	28.80	27.32	1.0541727	1
## 1078	2020-01-27	Monday	26.11	27.64	0.9446455	0
## 1079	2020-02-07	Friday	28.38	28.30	1.0028269	1
## 1080	2020-02-13	Thursday	30.09	30.47	0.9875287	0
## 1081	2020-02-14	Friday	29.20	30.09	0.9704221	0
## 1082	2020-02-18	Tuesday	28.63	29.20	0.9804794	0
## 1083	2020-02-21	Friday	27.82	28.51	0.9757980	0
## 1084	2020-02-24	Monday	25.45	27.82	0.9148095	0
## 1085	2020-02-25	Tuesday	23.12	25.45	0.9084479	0
## 1086	2020-02-27	Thursday	20.60	22.31	0.9233528	0
## 1087	2020-03-06	Friday	15.97	16.04	0.9956358	0
## 1088	2020-03-09	Monday	14.75	15.97	0.9236068	0
## 1089	2020-03-11	Wednesday	16.26	17.00	0.9564706	0
## 1090	2020-03-12	Thursday	13.45	16.26	0.8271833	0
##	cumulativeSumTodayGrtrThanlag1 nRepeatsTodayGrtrThanlag1					
decrDaysThisCycle						
## 1			1			2
1						
## 2			6			2
1						
## 3			7			4
3						
## 4			8			5
4						
## 5			8			5
4						
## 6			9			1
0						
## 7			10			2
1						
## 8			13			1
0						
## 9			24			1
0						
## 10			25			2
1						
## 11			27			1

0		
## 12	28	2
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## 13	32	1
0		
## 14	34	3
2		
## 15	34	3
2		
## 16	35	1
0		
## 17	37	1
0		
## 18	42	5
4		
## 19	42	5
4		
## 20	42	5
4		
## 21	45	5
4		
## 22	45	5
4		
## 23	45	5
4		
## 24	47	3
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## 25	48	1
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## 26	49	4
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## 27	49	4
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## 28	49	4
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## 29	52	1
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## 30	53	4
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## 31	53	4
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## 32	55	2
1		
## 33	58	4
3		
## 34	61	3
2		
## 35	63	2
1		
## 36	69	1

0		
## 37	71	3
2		
## 38	72	2
1		
## 39	73	2
1		
## 40	73	2
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## 41	75	5
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## 42	75	5
4		
## 43	75	5
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## 44	76	2
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## 45	77	1
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## 46	78	3
2		
## 47	82	2
1		
## 48	84	1
0		
## 49	87	2
1		
## 50	88	4
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## 51	92	1
0		
## 52	94	4
3		
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3		
## 54	94	4
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## 55	95	1
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## 56	97	1
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## 57	98	3
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## 58	101	1
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## 59	105	4
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## 60	107	1
0		
## 61	111	5

4		
## 62	111	5
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## 63	114	3
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## 64	115	1
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## 66	117	2
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## 67	118	3
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## 68	118	3
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## 69	120	7
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## 70	120	7
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## 71	120	7
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## 72	123	4
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## 73	124	4
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## 74	124	4
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## 75	127	3
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## 76	130	2
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## 77	133	3
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## 78	133	3
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## 79	135	2
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## 80	136	1
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## 81	137	1
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## 82	138	3
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## 83	140	1
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## 84	144	4
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## 85	144	4
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## 86	144	4

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## 88	150	2
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## 89	151	5
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## 90	152	1
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## 91	155	2
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## 92	157	2
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## 93	158	1
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## 94	160	7
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## 95	163	1
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## 96	164	6
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## 97	164	6
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## 98	167	3
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## 99	169	4
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## 100	169	4
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## 102	172	3
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## 103	172	3
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## 104	173	3
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## 105	174	1
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## 106	177	1
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## 107	178	2
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## 108	179	3
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## 109	179	3
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## 110	180	2
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## 111	182	10

9		
## 112	182	10
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## 113	182	10
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## 114	183	4
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## 115	185	3
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## 116	188	1
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## 117	189	9
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## 118	189	9
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## 119	189	9
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## 120	189	9
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## 121	192	4
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## 122	196	9
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## 123	196	9
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## 124	196	9
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## 125	196	9
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## 126	196	9
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## 127	196	9
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## 128	197	3
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## 129	198	5
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## 130	198	5
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## 131	198	5
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## 132	204	1
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## 133	205	1
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## 134	208	7
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## 135	208	7
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IncreasingDaysThisCycle				
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## 695	1	1	1	1
1				
## 696	3	3	3	3
3				
## 697	3	2	3	3
3				
## 698	2	2	2	2
2				
## 699	2	2	2	2
2				
## 700	1	1	1	1
1				
## 701	4	4	4	4
4				
## 702	4	4	4	4
4				
## 703	6	5	6	6
6				
## 704	0	0	0	0
0				
## 705	1	1	1	1
1				
## 706	1	1	1	1
1				
## 707	1	1	1	1
1				
## 708	5	5	5	5
5				

## 709	5	5	5	5
5				
## 710	5	4	5	5
5				
## 711	1	1	1	1
1				
## 712	0	0	0	0
0				
## 713	0	0	0	0
0				
## 714	1	1	1	1
1				
## 715	0	0	0	0
0				
## 716	2	2	2	2
2				
## 717	5	6	5	5
5				
## 718	5	5	5	5
5				
## 719	3	3	3	3
3				
## 720	3	3	3	3
3				
## 721	0	0	0	0
0				
## 722	0	0	0	0
0				
## 723	8	5	9	8
8				
## 724	8	7	9	8
8				
## 725	8	7	9	8
8				
## 726	8	7	9	8
8				
## 727	8	6	9	8
8				
## 728	0	0	0	0
0				
## 729	2	1	2	2
2				
## 730	0	0	0	0
0				
## 731	5	6	5	5
5				
## 732	5	5	5	5
5				
## 733	5	4	5	5
5				

## 734	1	1	1	1
1				
## 735	1	1	1	1
1				
## 736	1	1	1	1
1				
## 737	1	1	1	1
1				
## 738	2	2	2	2
2				
## 739	0	0	0	0
0				
## 740	2	2	2	2
2				
## 741	4	4	4	4
4				
## 742	4	3	4	4
4				
## 743	0	0	0	0
0				
## 744	0	0	0	0
0				
## 745	0	0	0	0
0				
## 746	1	2	1	1
1				
## 747	3	3	3	3
3				
## 748	3	3	3	3
3				
## 749	3	3	3	3
3				
## 750	0	0	0	0
0				
## 751	2	2	2	2
2				
## 752	2	1	2	2
2				
## 753	3	3	3	3
3				
## 754	2	2	2	2
2				
## 755	2	3	2	2
2				
## 756	3	3	3	3
3				
## 757	0	0	0	0
0				
## 758	0	0	0	0
0				

## 759	3	2	3	3
3				
## 760	3	3	3	3
3				
## 761	8	8	9	8
8				
## 762	8	7	9	8
8				
## 763	0	0	0	0
0				
## 764	1	1	1	1
1				
## 765	1	1	1	1
1				
## 766	0	0	0	0
0				
## 767	4	4	4	4
4				
## 768	4	4	4	4
4				
## 769	2	2	2	2
2				
## 770	0	0	0	0
0				
## 771	3	2	3	3
3				
## 772	0	0	0	0
0				
## 773	0	0	0	0
0				
## 774	1	0	1	1
1				
## 775	1	1	1	1
1				
## 776	1	1	1	1
1				
## 777	2	2	2	2
2				
## 778	2	1	2	2
2				
## 779	2	2	2	2
2				
## 780	0	0	0	0
0				
## 781	2	2	2	2
2				
## 782	2	2	2	2
2				
## 783	0	0	0	0
0				

## 784 4	4	3	4	4
## 785 4	4	3	4	4
## 786 0	0	0	0	0
## 787 0	0	0	0	0
## 788 1	1	1	1	1
## 789 1	1	1	1	1
## 790 2	2	2	2	2
## 791 2	2	2	2	2
## 792 1	1	1	1	1
## 793 1	1	1	1	1
## 794 4	4	3	4	4
## 795 2	2	2	2	2
## 796 2	2	2	2	2
## 797 2	2	2	2	2
## 798 2	2	2	2	2
## 799 6	6	5	6	6
## 800 6	6	6	6	6
## 801 2	2	3	2	2
## 802 1	1	1	1	1
## 803 1	1	1	1	1
## 804 3	3	3	3	3
## 805 5	5	5	5	5
## 806 5	5	3	5	5
## 807 0	0	0	0	0
## 808 0	0	0	0	0

## 809	2	2	2	2
2				
## 810	3	3	3	3
3				
## 811	4	4	4	4
4				
## 812	1	1	1	1
1				
## 813	3	2	3	3
3				
## 814	3	3	3	3
3				
## 815	3	3	3	3
3				
## 816	1	1	1	1
1				
## 817	4	4	4	4
4				
## 818	4	3	4	4
4				
## 819	4	4	4	4
4				
## 820	4	3	4	4
4				
## 821	4	3	4	4
4				
## 822	0	0	0	0
0				
## 823	1	1	1	1
1				
## 824	1	1	1	1
1				
## 825	0	0	0	0
0				
## 826	2	1	2	2
2				
## 827	1	1	1	1
1				
## 828	2	2	2	2
2				
## 829	2	2	2	2
2				
## 830	1	1	1	1
1				
## 831	3	3	3	3
3				
## 832	0	0	0	0
0				
## 833	0	0	0	0
0				

## 834	4	3	4	4
4				
## 835	1	1	1	1
1				
## 836	2	1	2	2
2				
## 837	2	2	2	2
2				
## 838	0	0	0	0
0				
## 839	0	0	0	0
0				
## 840	0	0	0	0
0				
## 841	3	3	3	3
3				
## 842	0	0	0	0
0				
## 843	0	0	0	0
0				
## 844	4	4	4	4
4				
## 845	4	4	4	4
4				
## 846	3	3	3	3
3				
## 847	2	2	2	2
2				
## 848	2	1	2	2
2				
## 849	2	2	2	2
2				
## 850	2	1	2	2
2				
## 851	1	1	1	1
1				
## 852	1	1	1	1
1				
## 853	2	1	2	2
2				
## 854	1	1	1	1
1				
## 855	3	3	3	3
3				
## 856	0	0	0	0
0				
## 857	4	3	4	4
4				
## 858	0	0	0	0
0				

## 859 1	1	1	1	1
## 860 1	1	1	1	1
## 861 3	3	3	3	3
## 862 3	3	2	3	3
## 863 3	3	3	3	3
## 864 1	1	1	1	1
## 865 4	4	4	4	4
## 866 4	4	3	4	4
## 867 0	0	0	0	0
## 868 1	1	1	1	1
## 869 0	0	0	0	0
## 870 2	2	2	2	2
## 871 0	0	0	0	0
## 872 4	4	3	4	4
## 873 4	4	4	4	4
## 874 4	4	3	4	4
## 875 1	1	1	1	1
## 876 1	1	1	1	1
## 877 6	6	6	6	6
## 878 6	6	6	6	6
## 879 6	6	6	6	6
## 880 2	2	2	2	2
## 881 0	0	0	0	0
## 882 4	4	3	4	4
## 883 4	4	3	4	4

## 884	0	0	0	0
0				
## 885	6	6	6	6
6				
## 886	6	6	6	6
6				
## 887	6	5	6	6
6				
## 888	4	3	4	4
4				
## 889	0	0	0	0
0				
## 890	0	0	0	0
0				
## 891	0	0	0	0
0				
## 892	0	0	0	0
0				
## 893	1	0	1	1
1				
## 894	2	2	2	2
2				
## 895	2	2	2	2
2				
## 896	7	7	6	7
7				
## 897	7	7	6	7
7				
## 898	7	7	6	7
7				
## 899	7	6	6	7
7				
## 900	3	3	3	3
3				
## 901	0	0	0	0
0				
## 902	0	0	0	0
0				
## 903	1	1	1	1
1				
## 904	1	1	1	1
1				
## 905	0	0	0	0
0				
## 906	0	0	0	0
0				
## 907	0	0	0	0
0				
## 908	1	1	1	1
1				

## 909	1	1	1	1
1				
## 910	2	2	2	2
2				
## 911	2	1	2	2
2				
## 912	0	0	0	0
0				
## 913	3	3	3	3
3				
## 914	1	1	1	1
1				
## 915	1	1	1	1
1				
## 916	3	3	3	3
3				
## 917	1	1	1	1
1				
## 918	0	0	0	0
0				
## 919	1	1	1	1
1				
## 920	1	1	1	1
1				
## 921	0	0	0	0
0				
## 922	3	3	3	3
3				
## 923	0	0	0	0
0				
## 924	3	3	3	3
3				
## 925	3	2	3	3
3				
## 926	4	3	4	4
4				
## 927	3	4	3	3
3				
## 928	1	1	1	1
1				
## 929	1	1	1	1
1				
## 930	1	1	1	1
1				
## 931	3	3	3	3
3				
## 932	2	3	2	2
2				
## 933	2	1	2	2
2				

## 934 0	0	0	0	0
## 935 1	1	1	1	1
## 936 0	0	0	0	0
## 937 0	0	0	0	0
## 938 4	4	3	4	4
## 939 4	4	3	4	4
## 940 4	4	2	4	4
## 941 5	5	4	5	5
## 942 5	5	4	5	5
## 943 6	6	5	6	6
## 944 6	6	4	6	6
## 945 0	0	0	0	0
## 946 1	1	1	1	1
## 947 1	1	1	1	1
## 948 0	0	0	0	0
## 949 1	1	2	1	1
## 950 3	3	2	3	3
## 951 1	1	2	1	1
## 952 0	0	0	0	0
## 953 0	0	0	0	0
## 954 1	1	1	1	1
## 955 0	0	0	0	0
## 956 1	1	1	1	1
## 957 1	1	1	1	1
## 958 1	1	1	1	1

## 959	2	1	2	2
2				
## 960	2	2	2	2
2				
## 961	0	0	0	0
0				
## 962	2	2	2	2
2				
## 963	1	1	1	1
1				
## 964	1	1	1	1
1				
## 965	1	1	1	1
1				
## 966	0	0	0	0
0				
## 967	1	1	1	1
1				
## 968	3	2	3	3
3				
## 969	3	3	3	3
3				
## 970	5	5	5	5
5				
## 971	2	2	2	2
2				
## 972	0	0	0	0
0				
## 973	0	0	0	0
0				
## 974	1	1	1	1
1				
## 975	1	1	1	1
1				
## 976	0	0	0	0
0				
## 977	2	2	2	2
2				
## 978	2	2	2	2
2				
## 979	2	2	2	2
2				
## 980	2	2	2	2
2				
## 981	7	6	6	7
7				
## 982	0	0	0	0
0				
## 983	1	1	1	1
1				

## 984	0	0	0	0
0				
## 985	0	0	0	0
0				
## 986	2	2	2	2
2				
## 987	1	1	1	1
1				
## 988	3	3	3	3
3				
## 989	3	3	3	3
3				
## 990	0	0	0	0
0				
## 991	0	0	0	0
0				
## 992	0	0	0	0
0				
## 993	3	3	3	3
3				
## 994	0	0	0	0
0				
## 995	0	0	0	0
0				
## 996	1	1	1	1
1				
## 997	0	0	0	0
0				
## 998	2	3	2	2
2				
## 999	0	0	0	0
0				
## 1000	3	4	3	3
3				
## 1001	3	3	3	3
3				
## 1002	3	2	3	3
3				
## 1003	3	3	3	3
3				
## 1004	3	3	3	3
3				
## 1005	0	0	0	0
0				
## 1006	0	0	0	0
0				
## 1007	0	0	0	0
0				
## 1008	0	0	0	0
0				

## 1009	2	2	2	2
2				
## 1010	2	2	2	2
2				
## 1011	1	1	1	1
1				
## 1012	1	2	1	1
1				
## 1013	0	0	0	0
0				
## 1014	1	1	1	1
1				
## 1015	1	1	1	1
1				
## 1016	6	5	6	6
6				
## 1017	2	2	2	2
2				
## 1018	2	1	2	2
2				
## 1019	2	1	2	2
2				
## 1020	2	2	2	2
2				
## 1021	2	2	2	2
2				
## 1022	0	0	0	0
0				
## 1023	0	0	0	0
0				
## 1024	2	2	2	2
2				
## 1025	2	1	2	2
2				
## 1026	1	1	1	1
1				
## 1027	0	0	0	0
0				
## 1028	0	0	0	0
0				
## 1029	0	0	0	0
0				
## 1030	1	1	1	1
1				
## 1031	1	2	1	1
1				
## 1032	4	4	4	4
4				
## 1033	3	3	3	3
3				

## 1034	3	3	3	3
3				
## 1035	0	0	0	0
0				
## 1036	2	2	2	2
2				
## 1037	0	0	0	0
0				
## 1038	2	1	2	2
2				
## 1039	2	2	2	2
2				
## 1040	0	0	0	0
0				
## 1041	2	3	2	2
2				
## 1042	0	0	0	0
0				
## 1043	9	7	9	9
9				
## 1044	0	0	0	0
0				
## 1045	0	0	0	0
0				
## 1046	0	0	0	0
0				
## 1047	1	1	1	1
1				
## 1048	6	3	6	6
6				
## 1049	6	5	6	6
6				
## 1050	6	5	6	6
6				
## 1051	6	5	6	6
6				
## 1052	2	2	2	2
2				
## 1053	4	3	4	4
4				
## 1054	4	4	4	4
4				
## 1055	4	3	4	4
4				
## 1056	3	2	3	3
3				
## 1057	3	3	3	3
3				
## 1058	0	0	0	0
0				

## 1059	0	0	0	0
0				
## 1060	0	0	0	0
0				
## 1061	2	3	2	2
2				
## 1062	2	3	2	2
2				
## 1063	1	1	1	1
1				
## 1064	0	0	0	0
0				
## 1065	1	2	1	1
1				
## 1066	0	0	0	0
0				
## 1067	0	0	0	0
0				
## 1068	1	1	1	1
1				
## 1069	2	2	2	2
2				
## 1070	2	3	2	2
2				
## 1071	3	2	3	3
3				
## 1072	1	1	1	1
1				
## 1073	1	2	1	1
1				
## 1074	0	0	0	0
0				
## 1075	5	5	5	5
5				
## 1076	2	2	2	2
2				
## 1077	2	2	2	2
2				
## 1078	1	1	1	1
1				
## 1079	4	4	4	4
4				
## 1080	0	0	0	0
0				
## 1081	0	0	0	0
0				
## 1082	0	0	0	0
0				
## 1083	0	0	0	0
0				

## 1084	0	0	0	0
0				
## 1085	0	0	0	0
0				
## 1086	0	0	0	0
0				
## 1087	0	0	0	0
0				
## 1088	1	1	1	1
1				
## 1089	0	0	0	0
0				
## 1090	1	2	1	1
1				

The above used the cumulative counts with the subsequent step vectors to get the predicted result for number of increasing days in the observation. How well does the machine learning do when removing those subsequent vectors to predict the number of days increasing with each observation? Keep the day of the week but remove the count/group of count columns other than the `incrDaysThisCycle` and the `nTimesIncrDayCountsOccurs` columns.

```
sAAL_1 <- sAAL[,c(1:4,13:14)]
colnames(sAAL_1)

## [1] "DayOfWeek"          "stockDayValue"
## [3] "lag1"               "today2lag1"
## [5] "incrDaysThisCycle"  "nTimesIncrDayCountsOccurs"

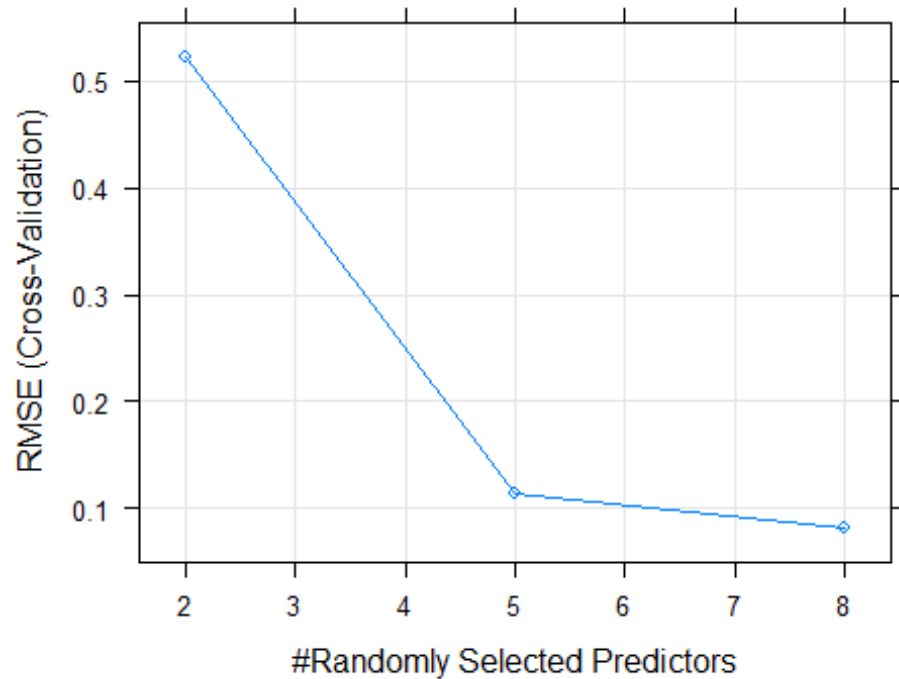
set.seed(12356789)

inTrain <- createDataPartition(y=sAAL_1$incrDaysThisCycle, p=0.7, list=FALSE)

trainingSet <- sAAL_1[inTrain,]
testingSet <- sAAL_1[-inTrain,]

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

plot(rfMod)
```



```
predRF <- predict(rfMod, testingSet)
```

```
predDF <- data.frame(predRF, type=testingSet$incrDaysThisCycle)
predDF
```

```
##          predRF type
## 2005-09-28 -7.084999e-15  0
## 2005-10-07  1.000000e+00  1
## 2005-10-10  1.000000e+00  1
## 2005-10-14  1.000000e+00  1
## 2005-10-19 -7.199574e-15  0
## 2005-10-21  2.000000e+00  2
## 2005-10-24  2.000000e+00  2
## 2005-10-28  1.500000e+01 15
## 2005-11-14  1.498000e+01 15
## 2005-11-16  1.000000e+00  1
## 2005-11-22  2.000000e+00  2
## 2005-11-23  1.996000e+00  2
## 2005-12-06  2.000000e+00  2
## 2005-12-12 -6.998846e-15  0
## 2005-12-13  7.271067e+00  8
## 2005-12-14  7.104700e+00  8
## 2005-12-16  7.192200e+00  8
## 2005-12-23  7.740333e+00  8
## 2005-12-27 -7.586820e-15  0
## 2005-12-29 -7.373657e-15  0
## 2006-01-05  3.000000e+00  3
```

##	2006-01-06	-8.482992e-15	0
##	2006-01-09	-7.008616e-15	0
##	2006-01-19	-7.406520e-15	0
##	2006-01-23	2.000000e+00	2
##	2006-01-24	2.000000e+00	2
##	2006-01-26	-7.410073e-15	0
##	2006-01-27	3.994000e+00	4
##	2006-02-01	4.000000e+00	4
##	2006-02-03	-8.451906e-15	0
##	2006-02-07	2.000000e+00	2
##	2006-02-10	3.000000e+00	3
##	2006-02-15	3.000000e+00	3
##	2006-03-03	-8.459011e-15	0
##	2006-03-09	1.000000e+00	1
##	2006-03-20	7.740233e+00	7
##	2006-03-24	1.000000e+00	1
##	2006-03-28	1.000000e+00	1
##	2006-03-29	1.000000e+00	1
##	2006-03-30	1.000000e+00	1
##	2006-04-10	-7.006840e-15	0
##	2006-04-11	-7.587708e-15	0
##	2006-04-12	1.000000e+00	1
##	2006-04-17	2.000000e+00	2
##	2006-04-18	1.996000e+00	2
##	2006-04-20	-7.432277e-15	0
##	2006-04-27	4.000000e+00	4
##	2006-05-02	5.000000e+00	5
##	2006-05-05	5.000000e+00	5
##	2006-05-12	1.000000e+00	1
##	2006-05-25	2.000000e+00	2
##	2006-05-31	1.000000e+00	1
##	2006-06-02	-8.480328e-15	0
##	2006-06-05	4.000000e+00	4
##	2006-06-06	4.000000e+00	4
##	2006-06-08	4.000000e+00	4
##	2006-06-12	-6.978418e-15	0
##	2006-06-19	5.000000e+00	5
##	2006-06-28	5.000000e+00	5
##	2006-06-30	5.000000e+00	5
##	2006-07-12	-7.075229e-15	0
##	2006-07-13	-7.214673e-15	0
##	2006-07-21	3.000000e+00	3
##	2006-07-24	3.000000e+00	3
##	2006-07-26	3.000000e+00	3
##	2006-07-27	1.000000e+00	1
##	2006-07-28	1.000000e+00	1
##	2006-08-01	2.000000e+00	2
##	2006-08-04	-8.453682e-15	0
##	2006-08-09	-7.195133e-15	0
##	2006-08-10	-7.424283e-15	0

##	2006-08-21	1.000000e+00	1
##	2006-08-22	1.000000e+00	1
##	2006-08-25	3.000000e+00	3
##	2006-08-31	-7.400303e-15	0
##	2006-09-08	2.000000e+00	2
##	2006-09-15	-8.473222e-15	0
##	2006-09-18	2.000000e+00	2
##	2006-09-20	2.000000e+00	2
##	2006-09-22	3.000000e+00	3
##	2006-09-25	3.000000e+00	3
##	2006-09-26	3.000000e+00	3
##	2006-10-02	3.000000e+00	3
##	2006-10-12	1.000000e+00	1
##	2006-10-16	-7.012169e-15	0
##	2006-10-17	5.000000e+00	5
##	2006-10-18	5.000000e+00	5
##	2006-10-27	1.000000e+00	1
##	2006-10-30	1.000000e+00	1
##	2006-11-06	2.000000e+00	2
##	2006-11-13	2.000000e+00	2
##	2006-11-17	3.000000e+00	3
##	2006-11-20	3.000000e+00	3
##	2006-11-27	-6.850520e-15	0
##	2006-12-08	2.000000e+00	2
##	2006-12-14	-7.126744e-15	0
##	2006-12-15	-8.436807e-15	0
##	2006-12-27	2.000000e+00	2
##	2007-01-04	2.000000e+00	2
##	2007-01-08	-6.868284e-15	0
##	2007-01-12	1.000000e+00	1
##	2007-01-16	1.000000e+00	1
##	2007-01-17	-6.797229e-15	0
##	2007-01-22	-6.880718e-15	0
##	2007-01-24	2.000000e+00	2
##	2007-01-31	2.000000e+00	2
##	2007-02-01	2.000000e+00	2
##	2007-02-05	1.000000e+00	1
##	2007-02-06	-7.326584e-15	0
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##	2007-02-13	2.000000e+00	2
##	2007-02-20	-7.382539e-15	0
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##	2007-03-20	3.000000e+00	3
##	2007-03-22	-7.339018e-15	0
##	2007-03-23	-8.474998e-15	0
##	2007-03-27	-7.405632e-15	0
##	2007-03-28	-7.185363e-15	0
##	2007-04-10	-7.537082e-15	0

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##	2007-04-19	-7.390533e-15	0
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##	2007-04-26	-7.345236e-15	0
##	2007-04-27	-8.446577e-15	0
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##	2007-05-03	1.000000e+00	1
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##	2007-05-23	3.000000e+00	3
##	2007-05-30	2.000000e+00	2
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##	2007-06-14	1.000000e+00	1
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##	2007-07-02	5.000000e+00	5
##	2007-07-06	5.000000e+00	5
##	2007-07-11	2.000000e+00	2
##	2007-07-13	2.000000e+00	2
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##	2007-08-13	1.000000e+00	1
##	2007-08-14	-7.591261e-15	0
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##	2007-08-22	3.000000e+00	3
##	2007-08-23	1.000000e+00	1
##	2007-08-29	4.000000e+00	4
##	2007-09-04	4.000000e+00	4
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##	2007-09-13	2.000000e+00	2
##	2007-09-17	2.000000e+00	2
##	2007-09-20	-7.407408e-15	0
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##	2007-10-09	7.017467e+00	7
##	2007-10-12	1.000000e+00	1
##	2007-10-15	2.000000e+00	2
##	2007-10-23	3.000000e+00	3
##	2007-10-24	3.000000e+00	3
##	2007-10-26	-8.435919e-15	0
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##	2007-11-07	-7.182699e-15	0
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##	2007-11-15	-7.425172e-15	0

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##	2007-11-23	2.000000e+00	2
##	2007-11-28	1.010000e+00	1
##	2007-11-30	1.000000e+00	1
##	2007-12-06	2.000000e+00	2
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##	2007-12-21	1.000000e+00	1
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##	2007-12-31	-6.903811e-15	0
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##	2008-01-14	3.000000e+00	3
##	2008-01-18	1.000000e+00	1
##	2008-01-23	1.000000e+00	1
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##	2008-02-11	-7.012169e-15	0
##	2008-02-20	1.000000e+00	1
##	2008-03-10	-7.002399e-15	0
##	2008-03-12	-7.068124e-15	0
##	2008-03-17	5.000000e+00	5
##	2008-03-24	5.000000e+00	5
##	2008-04-03	4.000000e+00	4
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##	2008-04-09	1.000000e+00	1
##	2008-04-10	1.000000e+00	1
##	2008-04-14	-7.013057e-15	0
##	2008-04-30	1.000000e+00	1
##	2008-05-01	1.000000e+00	1
##	2008-05-06	-7.593925e-15	0
##	2008-05-07	-7.017498e-15	0
##	2008-05-12	-7.009504e-15	0
##	2008-05-13	3.000000e+00	3
##	2008-05-14	3.000000e+00	3
##	2008-05-15	3.000000e+00	3
##	2008-05-16	3.000000e+00	3
##	2008-05-22	4.000000e-03	0
##	2008-05-28	1.000000e+00	1
##	2008-06-02	3.000000e+00	3
##	2008-06-05	3.000000e+00	3
##	2008-06-12	3.000000e+00	3
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##	2008-06-17	3.000000e+00	3
##	2008-06-18	1.000000e+00	1
##	2008-06-23	-6.394885e-15	0
##	2008-06-24	1.000000e+00	1
##	2008-07-01	-7.220002e-15	0

##	2008-07-03	3.000000e+00	3
##	2008-07-16	2.990000e+00	3
##	2008-07-21	2.000000e+00	2
##	2008-07-31	6.000000e+00	6
##	2008-08-07	4.000000e+00	4
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##	2008-08-11	4.000000e+00	4
##	2008-08-12	4.000000e+00	4
##	2008-08-13	-7.182699e-15	0
##	2008-08-19	-7.392309e-15	0
##	2008-08-21	1.000000e+00	1
##	2008-08-25	-7.013057e-15	0
##	2008-08-29	3.000000e+00	3
##	2008-09-04	1.000000e+00	1
##	2008-09-08	-7.028156e-15	0
##	2008-09-12	2.000000e+00	2
##	2008-09-15	1.000000e+00	1
##	2008-10-02	-7.353229e-15	0
##	2008-10-10	2.000000e+00	2
##	2008-10-16	5.000000e+00	5
##	2008-10-17	5.000000e+00	5
##	2008-10-20	5.000000e+00	5
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##	2008-10-30	3.000000e+00	3
##	2008-11-03	3.000000e+00	3
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##	2008-11-11	1.000000e+00	1
##	2008-11-18	-7.550405e-15	0
##	2008-11-21	5.000000e+00	5
##	2008-11-24	5.000000e+00	5
##	2008-11-25	5.000000e+00	5
##	2008-12-09	1.000000e+00	1
##	2008-12-15	2.000000e+00	2
##	2008-12-22	-7.016610e-15	0
##	2008-12-24	1.000000e+00	1
##	2008-12-26	-8.482104e-15	0
##	2008-12-29	3.000000e+00	3
##	2009-01-07	3.000000e+00	3
##	2009-01-08	3.000000e+00	3
##	2009-01-21	2.000000e+00	2
##	2009-01-22	2.000000e+00	2
##	2009-01-23	2.000000e+00	2
##	2009-01-30	2.000000e+00	2
##	2009-02-04	-6.963319e-15	0
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##	2009-02-11	2.000000e+00	2
##	2009-02-18	-6.835421e-15	0
##	2009-02-20	2.000000e+00	2

##	2009-02-24	2.000000e+00	2
##	2009-02-26	-7.172929e-15	0
##	2009-03-02	-6.738610e-15	0
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##	2009-03-10	4.000000e+00	4
##	2009-03-12	4.000000e+00	4
##	2009-03-17	2.000000e+00	2
##	2009-03-19	-6.963319e-15	0
##	2009-03-31	4.996000e+00	5
##	2009-04-07	3.000000e+00	3
##	2009-04-09	3.000000e+00	3
##	2009-04-20	4.016000e+00	4
##	2009-04-21	4.000000e+00	4
##	2009-04-23	4.000000e+00	4
##	2009-04-30	4.000000e+00	4
##	2009-05-12	-7.374545e-15	0
##	2009-05-20	2.000000e-03	0
##	2009-05-28	3.000000e+00	3
##	2009-05-29	3.000000e+00	3
##	2009-06-01	3.000000e+00	3
##	2009-06-02	3.000000e+00	3
##	2009-06-08	1.000000e+00	1
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##	2009-06-12	1.998000e+00	2
##	2009-06-16	1.990000e+00	2
##	2009-06-19	-8.390622e-15	0
##	2009-06-22	-6.785683e-15	0
##	2009-06-26	-7.995382e-15	0
##	2009-06-29	1.006000e+00	1
##	2009-07-01	1.000000e+00	1
##	2009-07-02	1.000000e+00	1
##	2009-07-08	1.000000e+00	1
##	2009-07-09	1.002000e+00	1
##	2009-07-10	1.006000e+00	1
##	2009-07-17	1.002000e+00	1
##	2009-07-20	1.000000e+00	1
##	2009-07-24	5.988000e+00	6
##	2009-08-05	2.000000e+00	2
##	2009-08-07	1.000000e+00	1
##	2009-08-11	2.000000e+00	2
##	2009-08-19	5.000000e+00	5
##	2009-08-26	5.000000e+00	5
##	2009-09-01	9.000000e+00	9
##	2009-09-08	9.000000e+00	9
##	2009-09-10	9.000000e+00	9
##	2009-09-11	9.000000e+00	9
##	2009-09-14	9.000000e+00	9
##	2009-09-21	1.000000e+00	1
##	2009-09-25	2.000000e+00	2
##	2009-09-28	-7.004175e-15	0

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##	2009-10-08	3.000000e+00	3
##	2009-10-12	3.000000e+00	3
##	2009-10-15	2.000000e+00	2
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##	2009-10-28	1.000000e+00	1
##	2009-11-05	3.000000e+00	3
##	2009-11-06	3.000000e+00	3
##	2009-11-09	3.000000e+00	3
##	2009-11-11	1.000000e+00	1
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##	2010-01-04	1.000000e+00	1
##	2010-01-05	1.000000e+00	1
##	2010-01-14	3.000000e+00	3
##	2010-01-28	4.000000e+00	4
##	2010-02-02	4.000000e+00	4
##	2010-02-08	3.000000e+00	3
##	2010-02-09	3.000000e+00	3
##	2010-02-12	3.000000e+00	3
##	2010-02-16	3.000000e+00	3
##	2010-02-24	4.000000e+00	4
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##	2010-03-05	1.000000e+00	1
##	2010-03-10	2.000000e+00	2
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##	2010-03-22	3.000000e+00	3
##	2010-03-25	-7.362111e-15	0
##	2010-03-30	2.000000e+00	2
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##	2010-04-12	1.000000e+00	1
##	2010-04-15	-7.302603e-15	0
##	2010-04-28	2.000000e+00	2
##	2010-04-29	2.000000e+00	2
##	2010-04-30	1.000000e+00	1
##	2010-05-05	1.000000e+00	1
##	2010-05-07	1.000000e+00	1
##	2010-05-14	1.000000e+00	1
##	2010-05-18	1.000000e+00	1
##	2010-05-19	1.000000e+00	1
##	2010-05-20	1.000000e+00	1
##	2010-05-21	1.000000e+00	1
##	2010-05-26	4.000000e+00	4
##	2010-05-27	4.000000e+00	4
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##	2010-06-08	1.000000e+00	1
##	2010-06-16	3.000000e+00	3
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##	2010-06-24	-7.328360e-15	0
##	2010-06-28	-7.012169e-15	0
##	2010-06-30	2.000000e+00	2
##	2010-07-06	2.000000e+00	2
##	2010-07-07	2.000000e+00	2
##	2010-07-08	2.000000e+00	2
##	2010-07-12	1.000000e+00	1
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##	2010-07-21	5.000000e+00	5
##	2010-08-20	-8.483880e-15	0
##	2010-08-25	1.000000e+00	1
##	2010-08-31	4.000000e+00	4
##	2010-09-01	4.000000e+00	4
##	2010-09-03	4.000000e+00	4
##	2010-09-08	-7.196910e-15	0
##	2010-09-17	2.000000e+00	2
##	2010-09-21	2.000000e+00	2
##	2010-09-22	-7.097434e-15	0
##	2010-09-23	2.000000e+00	2
##	2010-10-01	2.000000e+00	2
##	2010-10-05	1.000000e+00	1
##	2010-10-07	1.000000e+00	1
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##	2010-10-26	4.000000e+00	4
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##	2010-11-12	1.000000e+00	1
##	2010-11-15	1.000000e+00	1
##	2010-11-16	4.000000e+00	4
##	2010-11-22	4.000000e+00	4
##	2010-11-24	1.000000e+00	1
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##	2010-12-06	1.000000e+00	1
##	2010-12-10	1.000000e+00	1
##	2010-12-17	2.000000e+00	2
##	2010-12-21	2.000000e+00	2
##	2010-12-28	2.000000e+00	2
##	2011-01-04	4.000000e+00	4
##	2011-01-10	4.000000e+00	4

##	2011-01-24	4.000000e+00	4
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##	2011-02-22	-7.576162e-15	0
##	2011-02-23	-7.083223e-15	0
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##	2011-03-02	2.000000e+00	2
##	2011-03-11	2.000000e+00	2
##	2011-03-29	1.000000e+00	1
##	2011-03-30	1.000000e+00	1
##	2011-04-04	-7.009504e-15	0
##	2011-04-06	-7.189804e-15	0
##	2011-04-18	2.000000e+00	2
##	2011-04-21	2.000000e+00	2
##	2011-04-29	2.000000e+00	2
##	2011-05-05	3.000000e+00	3
##	2011-05-13	1.000000e+00	1
##	2011-05-17	-7.597478e-15	0
##	2011-05-19	1.000000e+00	1
##	2011-05-25	-7.124967e-15	0
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##	2011-06-01	1.000000e+00	1
##	2011-06-02	1.000000e+00	1
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##	2011-06-09	2.000000e+00	2
##	2011-06-14	1.000000e+00	1
##	2011-06-15	1.000000e+00	1
##	2011-06-17	3.000000e+00	3
##	2011-06-20	3.000000e+00	3
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##	2011-07-01	2.000000e+00	2
##	2011-07-07	1.000000e+00	1
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##	2011-07-13	-7.157830e-15	0
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##	2011-07-19	-7.558398e-15	0
##	2011-07-20	-7.099210e-15	0
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##	2011-08-02	1.000000e+00	1
##	2011-08-05	-8.459011e-15	0
##	2011-08-18	-7.184475e-15	0
##	2011-08-22	1.000000e+00	1
##	2011-08-23	1.000000e+00	1
##	2011-08-25	2.000000e+00	2
##	2011-08-26	2.000000e+00	2
##	2011-08-30	1.000000e+00	1
##	2011-09-08	4.000000e-03	0
##	2011-09-13	4.000000e+00	4
##	2011-10-06	3.000000e+00	3
##	2011-10-07	4.000000e+00	4
##	2011-10-13	4.000000e+00	4

##	2011-10-17	1.000000e+00	1
##	2011-10-19	1.000000e+00	1
##	2011-10-28	3.000000e+00	3
##	2011-11-01	-7.533529e-15	0
##	2011-11-10	1.006000e+00	1
##	2011-11-14	-7.007728e-15	0
##	2011-11-16	-6.895817e-15	0
##	2011-11-29	5.000000e+00	5
##	2011-12-09	2.000000e+00	2
##	2011-12-13	3.000000e+00	3
##	2011-12-15	3.000000e+00	3
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##	2011-12-28	1.000000e+00	1
##	2011-12-29	1.000000e+00	1
##	2012-01-17	3.000000e+00	3
##	2012-01-18	3.000000e+00	3
##	2012-01-19	3.000000e+00	3
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##	2012-01-31	3.000000e+00	3
##	2012-02-01	3.000000e+00	3
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##	2012-02-09	-7.398526e-15	0
##	2012-02-10	1.000000e+00	1
##	2012-02-16	1.000000e+00	1
##	2012-03-01	1.000000e+00	1
##	2012-03-02	1.000000e+00	1
##	2012-03-12	3.000000e+00	3
##	2012-03-13	3.000000e+00	3
##	2012-03-16	2.000000e+00	2
##	2012-03-19	2.000000e+00	2
##	2012-03-23	2.000000e+00	2
##	2012-03-30	-8.483880e-15	0
##	2012-04-05	-7.395862e-15	0
##	2012-04-09	-7.009504e-15	0
##	2012-04-10	2.000000e+00	2
##	2012-04-13	4.000000e+00	4
##	2012-04-17	4.000000e+00	4
##	2012-04-20	-8.470558e-15	0
##	2012-04-23	4.000000e+00	4
##	2012-04-25	4.000000e+00	4
##	2012-04-27	4.000000e+00	4
##	2012-04-30	-7.014833e-15	0
##	2012-05-04	1.000000e+00	1
##	2012-05-25	6.000000e+00	6
##	2012-06-05	2.000000e+00	2
##	2012-06-26	3.000000e+00	3
##	2012-06-27	3.000000e+00	3
##	2012-06-28	3.000000e+00	3
##	2012-07-19	-7.350565e-15	0
##	2012-07-25	2.000000e+00	2

##	2012-07-27	2.000000e+00	2
##	2012-07-30	1.000000e+00	1
##	2012-07-31	1.000000e+00	1
##	2012-08-06	-7.014833e-15	0
##	2012-08-07	1.000000e+00	1
##	2012-08-14	1.008000e+00	1
##	2012-08-17	4.000000e+00	4
##	2012-08-20	4.000000e+00	4
##	2012-08-23	1.000000e+00	1
##	2012-08-28	-7.598366e-15	0
##	2012-08-29	-7.182699e-15	0
##	2012-08-30	1.000000e+00	1
##	2012-09-10	-7.013945e-15	0
##	2012-09-13	-7.355005e-15	0
##	2012-09-27	4.000000e+00	4
##	2012-10-09	1.000000e+00	1
##	2012-10-12	5.000000e+00	5
##	2012-10-16	5.000000e+00	5
##	2012-10-31	2.000000e+00	2
##	2012-11-14	1.000000e+00	1
##	2012-11-16	2.000000e+00	2
##	2012-11-26	2.000000e+00	2
##	2012-11-30	-8.494538e-15	0
##	2012-12-03	-7.018386e-15	0
##	2012-12-05	4.000000e+00	4
##	2012-12-12	1.000000e+00	1
##	2012-12-17	3.000000e+00	3
##	2012-12-18	3.000000e+00	3
##	2012-12-21	-8.490098e-15	0
##	2012-12-26	-7.203127e-15	0
##	2012-12-31	2.000000e+00	2
##	2013-01-03	3.000000e+00	3
##	2013-01-04	3.000000e+00	3
##	2013-01-10	1.000000e+00	1
##	2013-01-11	-8.489209e-15	0
##	2013-01-14	-7.014833e-15	0
##	2013-01-22	2.000000e+00	2
##	2013-01-29	-7.599255e-15	0
##	2013-02-05	3.000000e+00	3
##	2013-02-06	3.000000e+00	3
##	2013-02-21	2.000000e+00	2
##	2013-02-25	1.300400e+01	13
##	2013-02-26	1.300400e+01	13
##	2013-02-27	1.300400e+01	13
##	2013-03-04	1.300400e+01	13
##	2013-03-07	1.300400e+01	13
##	2013-03-08	1.300400e+01	13
##	2013-03-11	1.300400e+01	13
##	2013-03-12	1.300400e+01	13
##	2013-03-18	3.000000e+00	3

##	2013-04-09	2.000000e+00	2
##	2013-04-10	2.000000e+00	2
##	2013-04-16	2.000000e+00	2
##	2013-04-17	2.000000e+00	2
##	2013-04-19	-8.490098e-15	0
##	2013-04-23	2.000000e+00	2
##	2013-04-24	2.000000e+00	2
##	2013-04-30	3.000000e+00	3
##	2013-05-09	3.000000e+00	3
##	2013-05-15	3.000000e+00	3
##	2013-05-20	-7.029044e-15	0
##	2013-05-24	2.000000e+00	2
##	2013-05-30	-7.428724e-15	0
##	2013-06-04	-7.585044e-15	0
##	2013-06-10	2.000000e+00	2
##	2013-06-12	1.000000e+00	1
##	2013-06-14	2.000000e+00	2
##	2013-06-18	2.000000e+00	2
##	2013-06-20	-7.411849e-15	0
##	2013-06-21	-8.490986e-15	0
##	2013-06-25	1.000000e+00	1
##	2013-07-02	4.000000e+00	4
##	2013-07-10	5.000000e+00	5
##	2013-07-12	5.000000e+00	5
##	2013-07-16	5.000000e+00	5
##	2013-07-19	-8.486545e-15	0
##	2013-07-23	4.000000e+00	4
##	2013-07-30	2.000000e+00	2
##	2013-08-07	1.000000e+00	1
##	2013-08-08	1.000000e+00	1
##	2013-08-21	3.000000e+00	3
##	2013-08-26	1.000000e+00	1
##	2013-08-29	5.000000e+00	5
##	2013-09-10	2.000000e+00	2
##	2013-09-12	3.000000e+00	3
##	2013-09-17	3.000000e+00	3
##	2013-09-23	3.000000e+00	3
##	2013-10-03	4.000000e+00	4
##	2013-10-15	5.000000e+00	5
##	2013-10-22	5.000000e+00	5
##	2013-10-23	1.000000e+00	1
##	2013-10-25	-8.464340e-15	0
##	2013-10-30	2.000000e+00	2
##	2013-10-31	2.000000e+00	2
##	2013-11-08	3.000000e+00	3
##	2013-11-14	3.000000e+00	3
##	2013-11-20	-7.196022e-15	0
##	2013-11-22	1.000000e+00	1
##	2013-11-26	1.000000e+00	1
##	2013-11-29	-8.462564e-15	0

##	2013-12-10	5.000000e+00	5
##	2013-12-19	1.000000e+00	1
##	2013-12-23	1.000000e+00	1
##	2014-01-06	4.000000e+00	4
##	2014-01-17	5.000000e+00	5
##	2014-01-21	5.000000e+00	5
##	2014-01-22	5.000000e+00	5
##	2014-01-23	5.000000e+00	5
##	2014-01-27	3.000000e+00	3
##	2014-01-30	3.000000e+00	3
##	2014-02-03	2.000000e+00	2
##	2014-02-11	-7.587708e-15	0
##	2014-02-21	5.000000e+00	5
##	2014-02-25	5.000000e+00	5
##	2014-02-26	-7.214673e-15	0
##	2014-03-03	4.000000e+00	4
##	2014-03-06	4.000000e+00	4
##	2014-03-07	4.000000e+00	4
##	2014-03-12	-7.218226e-15	0
##	2014-03-18	-7.586820e-15	0
##	2014-03-19	-7.218226e-15	0
##	2014-03-24	2.000000e+00	2
##	2014-03-25	2.000000e+00	2
##	2014-03-28	2.000000e+00	2
##	2014-03-31	2.000000e+00	2
##	2014-04-01	2.000000e+00	2
##	2014-04-04	-8.490098e-15	0
##	2014-04-07	2.000000e+00	2
##	2014-04-16	2.000000e+00	2
##	2014-04-22	4.000000e+00	4
##	2014-04-28	1.000000e+00	1
##	2014-05-01	7.431333e+00	8
##	2014-05-02	7.935967e+00	8
##	2014-05-06	7.789867e+00	8
##	2014-05-15	2.000000e+00	2
##	2014-05-16	2.000000e+00	2
##	2014-05-19	2.000000e+00	2
##	2014-05-20	1.001000e+01	10
##	2014-05-22	1.000000e+01	10
##	2014-06-02	1.001000e+01	10
##	2014-06-03	1.001000e+01	10
##	2014-06-09	1.000000e+00	1
##	2014-06-12	6.000000e+00	6
##	2014-06-13	6.000000e+00	6
##	2014-06-17	5.994000e+00	6
##	2014-06-26	2.000000e+00	2
##	2014-06-27	-8.478551e-15	0
##	2014-06-30	1.000000e+00	1
##	2014-07-16	-7.204903e-15	0
##	2014-07-17	1.000000e+00	1

##	2014-07-21	-7.006840e-15	0
##	2014-07-22	1.000000e+00	1
##	2014-08-04	-7.023715e-15	0
##	2014-08-08	2.000000e+00	2
##	2014-08-11	2.000000e+00	2
##	2014-08-21	1.000000e+00	1
##	2014-08-22	1.000000e+00	1
##	2014-08-27	1.000000e+00	1
##	2014-08-29	1.000000e+00	1
##	2014-09-18	1.000000e+00	1
##	2014-09-24	1.000000e+00	1
##	2014-09-25	1.000000e+00	1
##	2014-09-26	9.980000e-01	1
##	2014-09-29	1.000000e+00	1
##	2014-10-01	-7.198686e-15	0
##	2014-10-02	1.000000e+00	1
##	2014-10-07	-7.585932e-15	0
##	2014-10-10	-8.411938e-15	0
##	2014-10-13	5.994000e+00	6
##	2014-10-30	4.000000e+00	4
##	2014-11-03	4.000000e+00	4
##	2014-11-13	1.000000e+00	1
##	2014-11-17	1.000000e+00	1
##	2014-11-19	1.000000e+00	1
##	2014-11-28	3.000000e+00	3
##	2014-12-02	3.000000e+00	3
##	2014-12-09	2.000000e+00	2
##	2014-12-11	2.000000e+00	2
##	2014-12-15	1.000000e+00	1
##	2014-12-17	4.000000e+00	4
##	2014-12-18	4.000000e+00	4
##	2015-01-02	6.000000e+00	6
##	2015-01-06	-7.450041e-15	0
##	2015-01-07	1.000000e+00	1
##	2015-01-08	1.000000e+00	1
##	2015-01-13	1.000000e+00	1
##	2015-01-15	5.000000e+00	5
##	2015-01-20	5.000000e+00	5
##	2015-01-23	5.000000e+00	5
##	2015-01-29	1.000000e+00	1
##	2015-01-30	-8.391510e-15	0
##	2015-02-02	-7.003287e-15	0
##	2015-02-03	1.000000e+00	1
##	2015-02-05	-7.334577e-15	0
##	2015-02-11	2.000000e+00	2
##	2015-02-18	5.000000e+00	5
##	2015-02-23	5.000000e+00	5
##	2015-02-27	3.000000e+00	3
##	2015-03-03	3.000000e+00	3
##	2015-03-06	-8.477663e-15	0

##	2015-03-09	-6.989076e-15	0
##	2015-03-10	7.336267e+00	8
##	2015-03-11	7.351633e+00	8
##	2015-03-12	7.763333e+00	8
##	2015-03-16	7.350933e+00	8
##	2015-03-20	7.769900e+00	8
##	2015-03-23	-6.893153e-15	0
##	2015-03-30	2.000000e+00	2
##	2015-04-06	-7.013945e-15	0
##	2015-04-20	5.000000e+00	5
##	2015-04-23	5.000000e+00	5
##	2015-04-24	5.000000e+00	5
##	2015-05-01	1.000000e+00	1
##	2015-05-11	1.000000e+00	1
##	2015-05-14	1.000000e+00	1
##	2015-05-27	1.000000e+00	1
##	2015-06-01	2.000000e+00	2
##	2015-06-02	-7.579715e-15	0
##	2015-06-10	2.000000e+00	2
##	2015-06-16	4.000000e+00	4
##	2015-06-22	4.000000e+00	4
##	2015-06-23	-7.585932e-15	0
##	2015-06-24	-7.212009e-15	0
##	2015-06-25	-7.303491e-15	0
##	2015-06-29	1.000000e+00	1
##	2015-07-02	3.000000e+00	3
##	2015-07-08	3.000000e+00	3
##	2015-07-10	3.000000e+00	3
##	2015-07-14	-7.585932e-15	0
##	2015-07-24	2.000000e+00	2
##	2015-07-28	2.000000e+00	2
##	2015-07-31	3.000000e+00	3
##	2015-08-07	2.000000e+00	2
##	2015-08-10	2.000000e+00	2
##	2015-08-17	3.000000e+00	3
##	2015-08-19	-7.156942e-15	0
##	2015-08-24	-6.999734e-15	0
##	2015-08-28	3.000000e+00	3
##	2015-09-02	3.000000e+00	3
##	2015-09-09	7.657467e+00	8
##	2015-09-15	7.797133e+00	8
##	2015-09-18	-8.477663e-15	0
##	2015-09-22	1.000000e+00	1
##	2015-09-23	1.000000e+00	1
##	2015-09-24	-7.417178e-15	0
##	2015-10-08	4.000000e+00	4
##	2015-10-12	4.000000e+00	4
##	2015-10-19	2.000000e+00	2
##	2015-10-28	-7.199574e-15	0
##	2015-10-29	3.000000e+00	3

##	2015-11-06	-8.475887e-15	0
##	2015-11-17	-7.586820e-15	0
##	2015-11-18	1.000000e+00	1
##	2015-11-20	1.000000e+00	1
##	2015-11-23	1.000000e+00	1
##	2015-11-24	2.000000e+00	2
##	2015-11-27	2.000000e+00	2
##	2015-12-07	2.000000e+00	2
##	2015-12-11	-8.420820e-15	0
##	2015-12-15	2.000000e+00	2
##	2015-12-16	2.000000e+00	2
##	2015-12-17	-7.409184e-15	0
##	2015-12-21	4.000000e+00	4
##	2015-12-24	4.000000e+00	4
##	2015-12-30	-7.212009e-15	0
##	2016-01-04	-7.017498e-15	0
##	2016-01-05	1.000000e+00	1
##	2016-01-06	1.000000e+00	1
##	2016-01-11	2.000000e+00	2
##	2016-01-12	2.000000e+00	2
##	2016-01-13	1.000000e+00	1
##	2016-01-14	1.000000e+00	1
##	2016-01-15	4.000000e+00	4
##	2016-01-25	2.000000e+00	2
##	2016-01-29	2.000000e+00	2
##	2016-02-04	2.000000e+00	2
##	2016-02-10	2.000000e+00	2
##	2016-02-12	6.000000e+00	6
##	2016-02-18	6.000000e+00	6
##	2016-02-29	2.000000e+00	2
##	2016-03-08	1.000000e+00	1
##	2016-03-16	1.000000e+00	1
##	2016-03-28	3.000000e+00	3
##	2016-04-11	5.000000e+00	5
##	2016-04-14	5.000000e+00	5
##	2016-05-04	-7.178258e-15	0
##	2016-05-19	-7.433165e-15	0
##	2016-05-24	2.000000e+00	2
##	2016-05-31	3.000000e+00	3
##	2016-06-09	4.000000e+00	4
##	2016-06-14	1.000000e+00	1
##	2016-06-16	3.000000e+00	3
##	2016-06-17	3.000000e+00	3
##	2016-06-20	3.000000e+00	3
##	2016-06-22	1.000000e+00	1
##	2016-06-29	4.000000e+00	4
##	2016-07-06	4.000000e+00	4
##	2016-07-07	4.000000e+00	4
##	2016-07-08	4.000000e+00	4
##	2016-07-11	4.000000e+00	4

##	2016-07-20	-7.166712e-15	0
##	2016-07-21	1.000000e+00	1
##	2016-07-28	1.000000e+00	1
##	2016-08-02	-7.566392e-15	0
##	2016-08-05	2.000000e+00	2
##	2016-08-09	1.000000e+00	1
##	2016-08-12	2.000000e+00	2
##	2016-08-15	2.000000e+00	2
##	2016-08-18	1.000000e+00	1
##	2016-08-24	3.000000e+00	3
##	2016-08-26	-8.498091e-15	0
##	2016-08-31	-7.205792e-15	0
##	2016-09-01	4.000000e+00	4
##	2016-09-14	1.000000e+00	1
##	2016-09-23	2.000000e+00	2
##	2016-10-06	2.000000e+00	2
##	2016-10-14	-8.504308e-15	0
##	2016-10-24	-6.992629e-15	0
##	2016-10-25	-7.578826e-15	0
##	2016-10-27	3.000000e+00	3
##	2016-11-01	-7.583267e-15	0
##	2016-11-02	-7.163159e-15	0
##	2016-11-03	4.000000e+00	4
##	2016-11-08	4.000000e+00	4
##	2016-11-11	3.000000e+00	3
##	2016-11-16	2.000000e+00	2
##	2016-11-18	2.000000e+00	2
##	2016-11-23	2.000000e+00	2
##	2016-11-25	2.000000e+00	2
##	2016-11-29	9.980000e-01	1
##	2016-12-01	1.000000e+00	1
##	2016-12-07	2.000000e+00	2
##	2016-12-09	1.000000e+00	1
##	2016-12-12	3.000000e+00	3
##	2016-12-30	-8.474998e-15	0
##	2017-01-05	4.000000e+00	4
##	2017-01-12	-7.376322e-15	0
##	2017-01-18	1.000000e+00	1
##	2017-01-19	1.000000e+00	1
##	2017-01-25	3.000000e+00	3
##	2017-01-26	3.000000e+00	3
##	2017-02-08	3.000000e+00	3
##	2017-02-14	1.000000e+00	1
##	2017-02-24	4.000000e+00	4
##	2017-02-27	4.000000e+00	4
##	2017-03-06	-7.017498e-15	0
##	2017-03-08	1.000000e+00	1
##	2017-03-13	-7.011280e-15	0
##	2017-03-15	2.000000e+00	2
##	2017-03-20	-6.943779e-15	0

##	2017-03-22	4.000000e+00	4
##	2017-03-27	4.000000e+00	4
##	2017-03-28	4.000000e+00	4
##	2017-03-30	1.004000e+00	1
##	2017-04-03	1.000000e+00	1
##	2017-04-05	6.000000e+00	6
##	2017-04-06	6.000000e+00	6
##	2017-04-10	6.000000e+00	6
##	2017-04-25	2.000000e+00	2
##	2017-04-28	-8.467893e-15	0
##	2017-05-08	4.000000e+00	4
##	2017-05-09	4.000000e+00	4
##	2017-05-11	-7.394085e-15	0
##	2017-05-19	6.000000e+00	6
##	2017-05-24	6.000000e+00	6
##	2017-05-25	6.000000e+00	6
##	2017-06-01	4.000000e+00	4
##	2017-06-09	-8.445689e-15	0
##	2017-06-12	-7.008616e-15	0
##	2017-06-13	-7.435830e-15	0
##	2017-06-14	-7.092993e-15	0
##	2017-06-16	1.000000e+00	1
##	2017-06-20	2.000000e+00	2
##	2017-06-22	2.000000e+00	2
##	2017-06-29	7.577300e+00	7
##	2017-07-05	7.301500e+00	7
##	2017-07-06	7.656400e+00	7
##	2017-07-07	7.707000e+00	7
##	2017-07-12	3.000000e+00	3
##	2017-07-17	-6.926903e-15	0
##	2017-07-18	-7.439382e-15	0
##	2017-07-25	1.000000e+00	1
##	2017-08-01	1.000000e+00	1
##	2017-08-15	-7.520207e-15	0
##	2017-08-16	-7.118750e-15	0
##	2017-08-17	-7.318590e-15	0
##	2017-08-18	1.000000e+00	1
##	2017-08-24	1.000000e+00	1
##	2017-08-31	2.000000e+00	2
##	2017-09-01	2.000000e+00	2
##	2017-09-07	-7.415402e-15	0
##	2017-09-12	3.000000e+00	3
##	2017-09-27	1.000000e+00	1
##	2017-09-28	1.000000e+00	1
##	2017-10-04	3.000000e+00	3
##	2017-10-06	1.000000e+00	1
##	2017-10-11	-7.037926e-15	0
##	2017-10-13	1.000000e+00	1
##	2017-10-24	1.000000e+00	1
##	2017-10-26	-7.234213e-15	0

##	2017-11-17	3.000000e+00	3
##	2017-11-24	-8.459011e-15	0
##	2017-11-28	3.000000e+00	3
##	2017-11-30	3.000000e+00	3
##	2017-12-11	4.000000e+00	4
##	2017-12-15	3.000000e+00	3
##	2017-12-22	1.000000e+00	1
##	2017-12-27	1.000000e+00	1
##	2018-01-04	1.000000e+00	1
##	2018-01-11	3.000000e+00	3
##	2018-01-22	2.000000e+00	2
##	2018-01-23	2.000000e+00	2
##	2018-01-24	-6.932233e-15	0
##	2018-01-30	1.000000e+00	1
##	2018-02-01	-7.263523e-15	0
##	2018-02-08	-7.219114e-15	0
##	2018-02-09	4.000000e+00	4
##	2018-02-14	4.000000e+00	4
##	2018-02-15	4.000000e+00	4
##	2018-02-21	5.000000e+00	5
##	2018-02-22	5.000000e+00	5
##	2018-03-07	6.000000e+00	6
##	2018-03-12	6.000000e+00	6
##	2018-03-13	-7.382539e-15	0
##	2018-03-20	1.000000e+00	1
##	2018-03-26	1.000000e+00	1
##	2018-03-27	-7.482903e-15	0
##	2018-03-29	1.000000e+00	1
##	2018-04-05	3.000000e+00	3
##	2018-04-18	1.000000e+00	1
##	2018-04-20	-8.460788e-15	0
##	2018-04-23	-6.996181e-15	0
##	2018-04-30	1.000000e+00	1
##	2018-05-02	-7.191581e-15	0
##	2018-05-03	1.000000e+00	1
##	2018-05-07	1.000000e+00	1
##	2018-05-08	1.000000e+00	1
##	2018-05-11	2.000000e+00	2
##	2018-05-16	2.000000e+00	2
##	2018-05-17	-7.417178e-15	0
##	2018-05-23	2.000000e+00	2
##	2018-06-05	1.000000e+00	1
##	2018-06-06	1.000000e+00	1
##	2018-06-19	1.000000e+00	1
##	2018-06-21	-7.433165e-15	0
##	2018-06-29	1.000000e+00	1
##	2018-07-05	3.000000e+00	3
##	2018-07-06	3.000000e+00	3
##	2018-07-17	5.000000e+00	5
##	2018-07-26	2.000000e+00	2

##	2018-07-27	-8.497203e-15	0
##	2018-08-01	-7.181811e-15	0
##	2018-08-02	1.000000e+00	1
##	2018-08-03	1.000000e+00	1
##	2018-08-09	-7.432277e-15	0
##	2018-08-27	2.000000e+00	2
##	2018-08-30	2.000000e+00	2
##	2018-09-04	2.000000e+00	2
##	2018-09-07	2.000000e+00	2
##	2018-09-20	7.748367e+00	7
##	2018-10-01	-7.007728e-15	0
##	2018-10-02	1.000000e+00	1
##	2018-10-04	-7.420731e-15	0
##	2018-10-18	-7.362999e-15	0
##	2018-10-23	2.000000e+00	2
##	2018-11-07	1.000000e+00	1
##	2018-11-13	3.000000e+00	3
##	2018-11-14	3.000000e+00	3
##	2018-11-15	-7.428724e-15	0
##	2018-11-19	-7.022827e-15	0
##	2018-12-03	-7.009504e-15	0
##	2018-12-10	3.000000e+00	3
##	2018-12-13	-7.343459e-15	0
##	2018-12-14	-8.447465e-15	0
##	2018-12-24	1.000000e+00	1
##	2018-12-27	-7.429612e-15	0
##	2019-01-04	2.000000e+00	2
##	2019-01-10	-7.371881e-15	0
##	2019-01-25	3.000000e+00	3
##	2019-01-31	3.000000e+00	3
##	2019-02-05	3.000000e+00	3
##	2019-02-22	3.000000e+00	3
##	2019-02-25	3.000000e+00	3
##	2019-03-01	-8.485657e-15	0
##	2019-03-04	-7.023715e-15	0
##	2019-03-06	-7.216450e-15	0
##	2019-03-07	-7.423395e-15	0
##	2019-03-13	2.000000e+00	2
##	2019-03-14	2.000000e+00	2
##	2019-03-20	1.000000e+00	1
##	2019-03-21	1.000000e+00	1
##	2019-03-22	-8.431478e-15	0
##	2019-03-26	1.000000e+00	1
##	2019-03-27	1.000000e+00	1
##	2019-03-29	5.994000e+00	6
##	2019-04-10	2.000000e+00	2
##	2019-04-15	2.000000e+00	2
##	2019-04-22	2.000000e+00	2
##	2019-04-24	2.000000e+00	2
##	2019-04-29	2.000000e+00	2

##	2019-05-06	-6.978418e-15	0
##	2019-05-07	-7.585932e-15	0
##	2019-05-08	2.000000e+00	2
##	2019-05-10	2.000000e+00	2
##	2019-05-16	1.000000e+00	1
##	2019-05-22	-7.116974e-15	0
##	2019-06-10	-6.997958e-15	0
##	2019-06-14	-8.474998e-15	0
##	2019-06-19	1.000000e+00	1
##	2019-06-21	1.016000e+00	1
##	2019-06-26	4.000000e+00	4
##	2019-07-10	3.000000e+00	3
##	2019-07-11	3.000000e+00	3
##	2019-07-19	-8.461676e-15	0
##	2019-07-23	2.000000e+00	2
##	2019-08-05	-7.027268e-15	0
##	2019-08-06	2.000000e+00	2
##	2019-08-07	2.000000e+00	2
##	2019-08-14	-7.116974e-15	0
##	2019-08-16	2.000000e+00	2
##	2019-08-23	-8.446577e-15	0
##	2019-09-06	9.000000e+00	9
##	2019-09-19	-7.417178e-15	0
##	2019-09-26	-7.418954e-15	0
##	2019-09-30	-6.990852e-15	0
##	2019-10-03	1.000000e+00	1
##	2019-10-07	5.994000e+00	6
##	2019-10-08	6.000000e+00	6
##	2019-10-09	6.000000e+00	6
##	2019-10-10	6.000000e+00	6
##	2019-10-21	2.000000e+00	2
##	2019-10-22	4.000000e+00	4
##	2019-10-25	4.000000e+00	4
##	2019-10-28	4.000000e+00	4
##	2019-10-31	3.000000e+00	3
##	2019-11-01	3.000000e+00	3
##	2019-11-06	-7.188028e-15	0
##	2019-11-07	-7.364775e-15	0
##	2019-11-08	-8.441248e-15	0
##	2019-11-14	2.000000e+00	2
##	2019-11-15	2.000000e+00	2
##	2019-11-19	1.000000e+00	1
##	2019-12-02	-7.030820e-15	0
##	2019-12-05	9.980000e-01	1
##	2019-12-09	-7.010392e-15	0
##	2019-12-10	-7.588596e-15	0
##	2019-12-12	1.000000e+00	1
##	2019-12-13	2.000000e+00	2
##	2019-12-16	2.000000e+00	2
##	2019-12-18	3.000000e+00	3

```

## 2019-12-24 1.000000e+00 1
## 2019-12-26 1.000000e+00 1
## 2019-12-27 -8.434142e-15 0
## 2020-01-13 5.000000e+00 5
## 2020-01-22 2.000000e+00 2
## 2020-01-23 2.000000e+00 2
## 2020-01-27 1.000000e+00 1
## 2020-02-07 4.000000e+00 4
## 2020-02-13 -7.418066e-15 0
## 2020-02-14 -8.444800e-15 0
## 2020-02-18 -7.589485e-15 0
## 2020-02-21 -8.467893e-15 0
## 2020-02-24 -6.983747e-15 0
## 2020-02-25 -7.485568e-15 0
## 2020-02-27 -7.340795e-15 0
## 2020-03-06 -8.490986e-15 0
## 2020-03-09 1.000000e+00 1
## 2020-03-11 -7.155165e-15 0
## 2020-03-12 1.000000e+00 1

sum <- sum(predRF==testingSet$incrDaysThisCycle)
length <- length(testingSet$incrDaysThisCycle)
accuracy_rfMod <- (sum/length)
accuracy_rfMod

## [1] 0.459633

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 type
## 2005-09-28 -7.0849992539479e-15 0
## 2005-10-07 1 1
## 2005-10-10 1 1
## 2005-10-14 1 1
## 2005-10-19 -7.19957427008922e-15 0
## 2005-10-21 2 2
## 2005-10-24 2 2
## 2005-10-28 15 15
## 2005-11-14 14.98 15
## 2005-11-16 1 1
## 2005-11-22 2 2
## 2005-11-23 1.996 2
## 2005-12-06 2 2
## 2005-12-12 -6.99884594723699e-15 0
## 2005-12-13 7.27106666666667 8

```

## 2005-12-14	7.1047	8
## 2005-12-16	7.1922	8
## 2005-12-23	7.74033333333333	8
## 2005-12-27	-7.58682006107847e-15	0
## 2005-12-29	-7.37365724035044e-15	0
## 2006-01-05	3	3
## 2006-01-06	-8.4829920865559e-15	0
## 2006-01-09	-7.00861590985369e-15	0
## 2006-01-19	-7.40651984187934e-15	0
## 2006-01-23	2	2
## 2006-01-24	2	2
## 2006-01-26	-7.41007255555814e-15	0
## 2006-01-27	3.994	4
## 2006-02-01	4	4
## 2006-02-03	-8.45190584186639e-15	0
## 2006-02-07	2	2
## 2006-02-10	3	3
## 2006-02-15	3	3
## 2006-03-03	-8.45901126922399e-15	0
## 2006-03-09	1	1
## 2006-03-20	7.74023333333333	7
## 2006-03-24	1	1
## 2006-03-28	1	1
## 2006-03-29	1	1
## 2006-03-30	1	1
## 2006-04-10	-7.00683955301429e-15	0
## 2006-04-11	-7.58770823949817e-15	0
## 2006-04-12	1	1
## 2006-04-17	2	2
## 2006-04-18	1.996	2
## 2006-04-20	-7.43227701605065e-15	0
## 2006-04-27	4	4
## 2006-05-02	5	5
## 2006-05-05	5	5
## 2006-05-12	1	1
## 2006-05-25	2	2
## 2006-05-31	1	1
## 2006-06-02	-8.4803275512968e-15	0
## 2006-06-05	4	4
## 2006-06-06	4	4
## 2006-06-08	4	4
## 2006-06-12	-6.97841784358388e-15	0
## 2006-06-19	5	5
## 2006-06-28	5	5
## 2006-06-30	5	5
## 2006-07-12	-7.0752292913312e-15	0
## 2006-07-13	-7.21467330322412e-15	0
## 2006-07-21	3	3
## 2006-07-24	3	3
## 2006-07-26	3	3

## 2006-07-27	1	1
## 2006-07-28	1	1
## 2006-08-01	2	2
## 2006-08-04 -8.45368219870579e-15		0
## 2006-08-09 -7.19513337799072e-15		0
## 2006-08-10 -7.42428341027335e-15		0
## 2006-08-21	1	1
## 2006-08-22	1	1
## 2006-08-25	3	3
## 2006-08-31 -7.40030259294144e-15		0
## 2006-09-08	2	2
## 2006-09-15 -8.47322212393919e-15		0
## 2006-09-18	2	2
## 2006-09-20	2	2
## 2006-09-22	3	3
## 2006-09-25	3	3
## 2006-09-26	3	3
## 2006-10-02	3	3
## 2006-10-12	1	1
## 2006-10-16 -7.01216862353249e-15		0
## 2006-10-17	5	5
## 2006-10-18	5	5
## 2006-10-27	1	1
## 2006-10-30	1	1
## 2006-11-06	2	2
## 2006-11-13	2	2
## 2006-11-17	3	3
## 2006-11-20	3	3
## 2006-11-27 -6.85052015114707e-15		0
## 2006-12-08	2	2
## 2006-12-14 -7.1267436396738e-15		0
## 2006-12-15 -8.43680680873149e-15		0
## 2006-12-27	2	2
## 2007-01-04	2	2
## 2007-01-08 -6.86828371954107e-15		0
## 2007-01-12	1	1
## 2007-01-16	1	1
## 2007-01-17 -6.79722944596506e-15		0
## 2007-01-22 -6.88071821741687e-15		0
## 2007-01-24	2	2
## 2007-01-31	2	2
## 2007-02-01	2	2
## 2007-02-05	1	1
## 2007-02-06 -7.32658378410633e-15		0
## 2007-02-08	1	1
## 2007-02-13	2	2
## 2007-02-20 -7.38253902454744e-15		0
## 2007-02-23 -8.46167580448309e-15		0
## 2007-03-01 -7.25819404578942e-15		0
## 2007-03-14	1	1

## 2007-03-20	3	3
## 2007-03-22 -7.33901828198213e-15		0
## 2007-03-23 -8.47499848077859e-15		0
## 2007-03-27 -7.40563166345964e-15		0
## 2007-03-28 -7.18536341537401e-15		0
## 2007-04-10 -7.53708206957526e-15		0
## 2007-04-18	4	4
## 2007-04-19 -7.39053263032474e-15		0
## 2007-04-24 -7.58682006107847e-15		0
## 2007-04-26 -7.34523553092004e-15		0
## 2007-04-27 -8.44657677134819e-15		0
## 2007-04-30	1	1
## 2007-05-03	1	1
## 2007-05-07 -7.02282676456889e-15		0
## 2007-05-08 -7.58682006107847e-15		0
## 2007-05-09 -7.15782988436331e-15		0
## 2007-05-22	3	3
## 2007-05-23	3	3
## 2007-05-30	2	2
## 2007-06-05 -7.58504370423907e-15		0
## 2007-06-07	1	1
## 2007-06-12 -7.59126095317697e-15		0
## 2007-06-14	1	1
## 2007-06-15 -8.44924130660729e-15		0
## 2007-06-29	5	5
## 2007-07-02	5	5
## 2007-07-06	5	5
## 2007-07-11	2	2
## 2007-07-13	2	2
## 2007-07-31 -7.56994467110417e-15		0
## 2007-08-06	2	2
## 2007-08-09 -7.33813010356244e-15		0
## 2007-08-13	1	1
## 2007-08-14 -7.59126095317697e-15		0
## 2007-08-20	3	3
## 2007-08-22	3	3
## 2007-08-23	1	1
## 2007-08-29	4	4
## 2007-09-04	4	4
## 2007-09-06 -7.41806616133545e-15		0
## 2007-09-11	1	1
## 2007-09-13	2	2
## 2007-09-17	2	2
## 2007-09-20 -7.40740802029904e-15		0
## 2007-09-27 -7.42161887501425e-15		0
## 2007-10-03 7.04676666666667		7
## 2007-10-09 7.01746666666667		7
## 2007-10-12	1	1
## 2007-10-15	2	2
## 2007-10-23	3	3

## 2007-10-24	3	3
## 2007-10-26 -8.43591863031179e-15	0	
## 2007-10-29	1	1
## 2007-11-07 -7.18269888011491e-15	0	
## 2007-11-12	3	3
## 2007-11-15 -7.42517158869305e-15	0	
## 2007-11-16 -8.45101766344669e-15	0	
## 2007-11-19 -6.99351687671879e-15	0	
## 2007-11-21	2	2
## 2007-11-23	2	2
## 2007-11-28 1.01	1	
## 2007-11-30	1	1
## 2007-12-06	2	2
## 2007-12-14 -8.4892093354938e-15	0	
## 2007-12-20	3	3
## 2007-12-21	1	1
## 2007-12-26 -7.20312698376802e-15	0	
## 2007-12-28 -8.4883211570741e-15	0	
## 2007-12-31 -6.90381085632907e-15	0	
## 2008-01-09	1	1
## 2008-01-14	3	3
## 2008-01-18	1	1
## 2008-01-23	1	1
## 2008-01-24 -7.40296712820054e-15	0	
## 2008-02-05	3	3
## 2008-02-11 -7.01216862353249e-15	0	
## 2008-02-20	1	1
## 2008-03-10 -7.00239866091579e-15	0	
## 2008-03-12 -7.0681238639736e-15	0	
## 2008-03-17	5	5
## 2008-03-24	5	5
## 2008-04-03	4	4
## 2008-04-07	4	4
## 2008-04-09	1	1
## 2008-04-10	1	1
## 2008-04-14 -7.01305680195219e-15	0	
## 2008-04-30	1	1
## 2008-05-01	1	1
## 2008-05-06 -7.59392548843607e-15	0	
## 2008-05-07 -7.01749769405069e-15	0	
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## 2008-05-13	3	3
## 2008-05-14	3	3
## 2008-05-15	3	3
## 2008-05-16	3	3
## 2008-05-22 0.00399999999999276	0	
## 2008-05-28	1	1
## 2008-06-02	3	3
## 2008-06-05	3	3
## 2008-06-12	3	3

## 2008-06-13	3	3
## 2008-06-17	3	3
## 2008-06-18	1	1
## 2008-06-23	-6.3948846218409e-15	0
## 2008-06-24	1	1
## 2008-07-01	-7.22000237374232e-15	0
## 2008-07-03	3	3
## 2008-07-16	2.99	3
## 2008-07-21	2	2
## 2008-07-31	6	6
## 2008-08-07	4	4
## 2008-08-08	4	4
## 2008-08-11	4	4
## 2008-08-12	4	4
## 2008-08-13	-7.18269888011491e-15	0
## 2008-08-19	-7.39230898716414e-15	0
## 2008-08-21	1	1
## 2008-08-25	-7.01305680195219e-15	0
## 2008-08-29	3	3
## 2008-09-04	1	1
## 2008-09-08	-7.02815583508709e-15	0
## 2008-09-12	2	2
## 2008-09-15	1	1
## 2008-10-02	-7.35322913669734e-15	0
## 2008-10-10	2	2
## 2008-10-16	5	5
## 2008-10-17	5	5
## 2008-10-20	5	5
## 2008-10-22	5	5
## 2008-10-23	1	1
## 2008-10-30	3	3
## 2008-11-03	3	3
## 2008-11-05	-7.04147851138259e-15	0
## 2008-11-10	1	1
## 2008-11-11	1	1
## 2008-11-18	-7.55040474587076e-15	0
## 2008-11-21	5	5
## 2008-11-24	5	5
## 2008-11-25	5	5
## 2008-12-09	1	1
## 2008-12-15	2	2
## 2008-12-22	-7.01660951563099e-15	0
## 2008-12-24	1	1
## 2008-12-26	-8.4821039081362e-15	0
## 2008-12-29	3	3
## 2009-01-07	3	3
## 2009-01-08	3	3
## 2009-01-21	2	2
## 2009-01-22	2	2
## 2009-01-23	2	2

## 2009-01-30	2	2
## 2009-02-04 -6.96331881044898e-15	0	
## 2009-02-05 1.006	1	
## 2009-02-11	2	2
## 2009-02-18 -6.83542111801216e-15	0	
## 2009-02-20	2	2
## 2009-02-24	2	2
## 2009-02-26 -7.17292891749821e-15	0	
## 2009-03-02 -6.73860967026485e-15	0	
## 2009-03-04	1	1
## 2009-03-10	4	4
## 2009-03-12	4	4
## 2009-03-17	2	2
## 2009-03-19 -6.96331881044898e-15	0	
## 2009-03-31 4.996	5	
## 2009-04-07	3	3
## 2009-04-09	3	3
## 2009-04-20 4.016	4	
## 2009-04-21	4	4
## 2009-04-23	4	4
## 2009-04-30	4	4
## 2009-05-12 -7.37454541877014e-15	0	
## 2009-05-20 0.00199999999999313	0	
## 2009-05-28	3	3
## 2009-05-29	3	3
## 2009-06-01	3	3
## 2009-06-02	3	3
## 2009-06-08	1	1
## 2009-06-11 1.998	2	
## 2009-06-12 1.998	2	
## 2009-06-16 1.99	2	
## 2009-06-19 -8.39062153090708e-15	0	
## 2009-06-22 -6.78568312650896e-15	0	
## 2009-06-26 -7.99538213414053e-15	0	
## 2009-06-29 1.006	1	
## 2009-07-01	1	1
## 2009-07-02	1	1
## 2009-07-08	1	1
## 2009-07-09 1.002	1	
## 2009-07-10 1.006	1	
## 2009-07-17 1.002	1	
## 2009-07-20	1	1
## 2009-07-24 5.988	6	
## 2009-08-05	2	2
## 2009-08-07	1	1
## 2009-08-11	2	2
## 2009-08-19	5	5
## 2009-08-26	5	5
## 2009-09-01	9	9
## 2009-09-08	9	9

## 2009-09-10	9	9
## 2009-09-11	9	9
## 2009-09-14	9	9
## 2009-09-21	1	1
## 2009-09-25	2	2
## 2009-09-28 -7.00417501775519e-15	0	0
## 2009-10-02	3	3
## 2009-10-05	3	3
## 2009-10-08	3	3
## 2009-10-12	3	3
## 2009-10-15	2	2
## 2009-10-21 -6.84075018853036e-15	0	0
## 2009-10-28	1	1
## 2009-11-05	3	3
## 2009-11-06	3	3
## 2009-11-09	3	3
## 2009-11-11	1	1
## 2009-12-08 -7.48645589965236e-15	0	0
## 2009-12-17 -7.22266690900142e-15	0	0
## 2009-12-30	1	1
## 2010-01-04	1	1
## 2010-01-05	1	1
## 2010-01-14	3	3
## 2010-01-28	4	4
## 2010-02-02	4	4
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## 2017-06-29	7.5773	7
## 2017-07-05	7.3015	7
## 2017-07-06	7.6564	7
## 2017-07-07	7.707	7
## 2017-07-12	3	3
## 2017-07-17 -6.92690349524128e-15		0
## 2017-07-18 -7.43938244340825e-15		0
## 2017-07-25	1	1
## 2017-08-01	1	1
## 2017-08-15 -7.52020667960096e-15		0
## 2017-08-16 -7.1187500338965e-15		0
## 2017-08-17 -7.31859017832903e-15		0
## 2017-08-18	1	1
## 2017-08-24	1	1
## 2017-08-31	2	2
## 2017-09-01	2	2
## 2017-09-07 -7.41540162607635e-15		0
## 2017-09-12	3	3
## 2017-09-27	1	1
## 2017-09-28	1	1

## 2017-10-04	3	3
## 2017-10-06	1	1
## 2017-10-11 -7.03792579770379e-15		0
## 2017-10-13	1	1
## 2017-10-24	1	1
## 2017-10-26 -7.23421322845752e-15		0
## 2017-11-17	3	3
## 2017-11-24 -8.45901126922399e-15		0
## 2017-11-28	3	3
## 2017-11-30	3	3
## 2017-12-11	4	4
## 2017-12-15	3	3
## 2017-12-22	1	1
## 2017-12-27	1	1
## 2018-01-04	1	1
## 2018-01-11	3	3
## 2018-01-22	2	2
## 2018-01-23	2	2
## 2018-01-24 -6.93223256575948e-15		0
## 2018-01-30	1	1
## 2018-02-01 -7.26352311630762e-15		0
## 2018-02-08 -7.21911419532262e-15		0
## 2018-02-09	4	4
## 2018-02-14	4	4
## 2018-02-15	4	4
## 2018-02-21	5	5
## 2018-02-22	5	5
## 2018-03-07	6	6
## 2018-03-12	6	6
## 2018-03-13 -7.38253902454744e-15		0
## 2018-03-20	1	1
## 2018-03-26	1	1
## 2018-03-27 -7.48290318597356e-15		0
## 2018-03-29	1	1
## 2018-04-05	3	3
## 2018-04-18	1	1
## 2018-04-20 -8.46078762606339e-15		0
## 2018-04-23 -6.99618141197789e-15		0
## 2018-04-30	1	1
## 2018-05-02 -7.19158066431191e-15		0
## 2018-05-03	1	1
## 2018-05-07	1	1
## 2018-05-08	1	1
## 2018-05-11	2	2
## 2018-05-16	2	2
## 2018-05-17 -7.41717798291575e-15		0
## 2018-05-23	2	2
## 2018-06-05	1	1
## 2018-06-06	1	1
## 2018-06-19	1	1

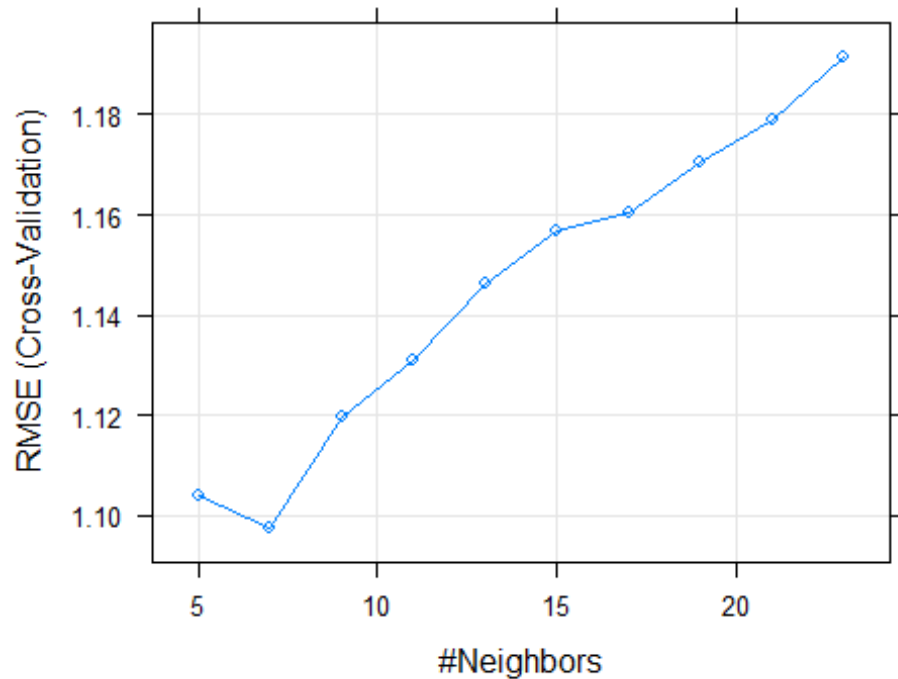
## 2018-06-21	-7.43316519447035e-15	0
## 2018-06-29	1	1
## 2018-07-05	3	3
## 2018-07-06	3	3
## 2018-07-17	5	5
## 2018-07-26	2	2
## 2018-07-27	-8.4972029412711e-15	0
## 2018-08-01	-7.18181070169521e-15	0
## 2018-08-02	1	1
## 2018-08-03	1	1
## 2018-08-09	-7.43227701605065e-15	0
## 2018-08-27	2	2
## 2018-08-30	2	2
## 2018-09-04	2	2
## 2018-09-07	2	2
## 2018-09-20	7.74836666666667	7
## 2018-10-01	-7.00772773143399e-15	0
## 2018-10-02	1	1
## 2018-10-04	-7.42073069659455e-15	0
## 2018-10-18	-7.36299909931404e-15	0
## 2018-10-23	2	2
## 2018-11-07	1	1
## 2018-11-13	3	3
## 2018-11-14	3	3
## 2018-11-15	-7.42872430237185e-15	0
## 2018-11-19	-7.02282676456889e-15	0
## 2018-12-03	-7.00950408827339e-15	0
## 2018-12-10	3	3
## 2018-12-13	-7.34345917408064e-15	0
## 2018-12-14	-8.44746494976789e-15	0
## 2018-12-24	1	1
## 2018-12-27	-7.42961248079155e-15	0
## 2019-01-04	2	2
## 2019-01-10	-7.37188088351104e-15	0
## 2019-01-25	3	3
## 2019-01-31	3	3
## 2019-02-05	3	3
## 2019-02-22	3	3
## 2019-02-25	3	3
## 2019-03-01	-8.485656621815e-15	0
## 2019-03-04	-7.02371494298859e-15	0
## 2019-03-06	-7.21644966006352e-15	0
## 2019-03-07	-7.42339523185365e-15	0
## 2019-03-13	2	2
## 2019-03-14	2	2
## 2019-03-20	1	1
## 2019-03-21	1	1
## 2019-03-22	-8.43147773821329e-15	0
## 2019-03-26	1	1
## 2019-03-27	1	1

## 2019-03-29	5.994	6
## 2019-04-10	2	2
## 2019-04-15	2	2
## 2019-04-22	2	2
## 2019-04-24	2	2
## 2019-04-29	2	2
## 2019-05-06	-6.97841784358388e-15	0
## 2019-05-07	-7.58593188265877e-15	0
## 2019-05-08	2	2
## 2019-05-10	2	2
## 2019-05-16	1	1
## 2019-05-22	-7.1169736770571e-15	0
## 2019-06-10	-6.99795776881729e-15	0
## 2019-06-14	-8.47499848077859e-15	0
## 2019-06-19	1	1
## 2019-06-21	1.016	1
## 2019-06-26	4	4
## 2019-07-10	3	3
## 2019-07-11	3	3
## 2019-07-19	-8.46167580448309e-15	0
## 2019-07-23	2	2
## 2019-08-05	-7.02726765666739e-15	0
## 2019-08-06	2	2
## 2019-08-07	2	2
## 2019-08-14	-7.1169736770571e-15	0
## 2019-08-16	2	2
## 2019-08-23	-8.44657677134819e-15	0
## 2019-09-06	9	9
## 2019-09-19	-7.41717798291575e-15	0
## 2019-09-26	-7.41895433975515e-15	0
## 2019-09-30	-6.99085234145969e-15	0
## 2019-10-03	1	1
## 2019-10-07	5.994	6
## 2019-10-08	6	6
## 2019-10-09	6	6
## 2019-10-10	6	6
## 2019-10-21	2	2
## 2019-10-22	4	4
## 2019-10-25	4	4
## 2019-10-28	4	4
## 2019-10-31	3	3
## 2019-11-01	3	3
## 2019-11-06	-7.18802795063311e-15	0
## 2019-11-07	-7.36477545615344e-15	0
## 2019-11-08	-8.44124770082999e-15	0
## 2019-11-14	2	2
## 2019-11-15	2	2
## 2019-11-19	1	1
## 2019-12-02	-7.03082037034619e-15	0
## 2019-12-05	0.998	1

```
## 2019-12-09 -7.01039226669309e-15 0
## 2019-12-10 -7.58859641791787e-15 0
## 2019-12-12 1 1
## 2019-12-13 2 2
## 2019-12-16 2 2
## 2019-12-18 3 3
## 2019-12-24 1 1
## 2019-12-26 1 1
## 2019-12-27 -8.43414227347239e-15 0
## 2020-01-13 5 5
## 2020-01-22 2 2
## 2020-01-23 2 2
## 2020-01-27 1 1
## 2020-02-07 4 4
## 2020-02-13 -7.41806616133545e-15 0
## 2020-02-14 -8.44480041450879e-15 0
## 2020-02-18 -7.58948459633757e-15 0
## 2020-02-21 -8.46789305342099e-15 0
## 2020-02-24 -6.98374691410209e-15 0
## 2020-02-25 -7.48556772123266e-15 0
## 2020-02-27 -7.34079463882154e-15 0
## 2020-03-06 -8.4909856923332e-15 0
## 2020-03-09 1 1
## 2020-03-11 -7.15516534910421e-15 0
## 2020-03-12 1 1
## results 0.46 100
```

```
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)

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,
                      TYPE=testingSet$incrDaysThisCycle)
colnames(predDF2) <- c('RandomForest', 'KNN', 'Rpart', 'GLM', 'TrueValue')

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', 'TrueValue')
Results <- rbind(predDF2, results)
Results

```

##	RandomForest	KNN	Rpart
## 2005-09-28	-7.0849992539479e-15	0.142857142857143	0
## 2005-10-07	1	1.14285714285714	1
## 2005-10-10	1	1.28571428571429	1
## 2005-10-14	1	1.28571428571429	1
## 2005-10-19	-7.19957427008922e-15	0	0
## 2005-10-21	2	2.85714285714286	2
## 2005-10-24	2	2.42857142857143	2
## 2005-10-28	15	5	14.4
## 2005-11-14	14.98	5.28571428571429	14.4
## 2005-11-16	1	1	1
## 2005-11-22	2	2	2
## 2005-11-23	1.996	2	2
## 2005-12-06	2	2.57142857142857	2
## 2005-12-12	-6.99884594723699e-15	0	0
## 2005-12-13	7.27106666666667	6.71428571428571	6.56198347107438
## 2005-12-14	7.1047	5.42857142857143	6.56198347107438
## 2005-12-16	7.1922	5.85714285714286	6.56198347107438
## 2005-12-23	7.74033333333333	7.14285714285714	6.56198347107438
## 2005-12-27	-7.58682006107847e-15	0	0
## 2005-12-29	-7.37365724035044e-15	0	0
## 2006-01-05	3	3.42857142857143	3
## 2006-01-06	-8.4829920865559e-15	0	0
## 2006-01-09	-7.00861590985369e-15	0	0
## 2006-01-19	-7.40651984187934e-15	0	0
## 2006-01-23	2	2.28571428571429	2
## 2006-01-24	2	2.71428571428571	2
## 2006-01-26	-7.41007255555814e-15	0	0
## 2006-01-27	3.994	3.28571428571429	4.37091988130564
## 2006-02-01	4	4.28571428571429	4.37091988130564
## 2006-02-03	-8.45190584186639e-15	0	0
## 2006-02-07	2	2.14285714285714	2
## 2006-02-10	3	2.71428571428571	3
## 2006-02-15	3	2.85714285714286	3
## 2006-03-03	-8.45901126922399e-15	0	0
## 2006-03-09	1	1	1
## 2006-03-20	7.74023333333333	5	6.56198347107438
## 2006-03-24	1	1	1
## 2006-03-28	1	1	1

## 2006-03-29	1	1	1
## 2006-03-30	1	1	1
## 2006-04-10	-7.00683955301429e-15	0	0
## 2006-04-11	-7.58770823949817e-15	0	0
## 2006-04-12	1	1	1
## 2006-04-17	2	2.28571428571429	2
## 2006-04-18	1.996	2	2
## 2006-04-20	-7.43227701605065e-15	0	0
## 2006-04-27	4	4.14285714285714	4.37091988130564
## 2006-05-02	5	3.85714285714286	4.37091988130564
## 2006-05-05	5	5.42857142857143	4.37091988130564
## 2006-05-12	1	1	1
## 2006-05-25	2	2.14285714285714	2
## 2006-05-31	1	1	1
## 2006-06-02	-8.4803275512968e-15	0	0
## 2006-06-05	4	3.28571428571429	4.37091988130564
## 2006-06-06	4	3.85714285714286	4.37091988130564
## 2006-06-08	4	4.28571428571429	4.37091988130564
## 2006-06-12	-6.97841784358388e-15	0	0
## 2006-06-19	5	3.71428571428571	4.37091988130564
## 2006-06-28	5	3.42857142857143	4.37091988130564
## 2006-06-30	5	4.71428571428571	4.37091988130564
## 2006-07-12	-7.0752292913312e-15	0	0
## 2006-07-13	-7.21467330322412e-15	0	0
## 2006-07-21	3	2.85714285714286	3
## 2006-07-24	3	3.71428571428571	3
## 2006-07-26	3	3.42857142857143	3
## 2006-07-27	1	1.42857142857143	1
## 2006-07-28	1	1	1
## 2006-08-01	2	1.85714285714286	2
## 2006-08-04	-8.45368219870579e-15	0	0
## 2006-08-09	-7.19513337799072e-15	0	0
## 2006-08-10	-7.42428341027335e-15	0	0
## 2006-08-21	1	1.28571428571429	1
## 2006-08-22	1	1	1
## 2006-08-25	3	2.85714285714286	3
## 2006-08-31	-7.40030259294144e-15	0	0
## 2006-09-08	2	2.14285714285714	2
## 2006-09-15	-8.47322212393919e-15	0	0
## 2006-09-18	2	2	2
## 2006-09-20	2	2.14285714285714	2
## 2006-09-22	3	3.14285714285714	3
## 2006-09-25	3	2.85714285714286	3
## 2006-09-26	3	3.28571428571429	3
## 2006-10-02	3	3.14285714285714	3
## 2006-10-12	1	1	1
## 2006-10-16	-7.01216862353249e-15	0	0
## 2006-10-17	5	4.28571428571429	4.37091988130564
## 2006-10-18	5	5.14285714285714	4.37091988130564
## 2006-10-27	1	1	1

## 2006-10-30	1	1	1
## 2006-11-06	2	2.42857142857143	2
## 2006-11-13	2	2.71428571428571	2
## 2006-11-17	3	3.14285714285714	3
## 2006-11-20	3	4	3
## 2006-11-27	-6.85052015114707e-15	0	0
## 2006-12-08	2	1.71428571428571	2
## 2006-12-14	-7.1267436396738e-15	0	0
## 2006-12-15	-8.43680680873149e-15	0	0
## 2006-12-27	2	2.28571428571429	2
## 2007-01-04	2	3	2
## 2007-01-08	-6.86828371954107e-15	0	0
## 2007-01-12	1	1.28571428571429	1
## 2007-01-16	1	1.57142857142857	1
## 2007-01-17	-6.79722944596506e-15	0	0
## 2007-01-22	-6.88071821741687e-15	0	0
## 2007-01-24	2	2.42857142857143	2
## 2007-01-31	2	1.85714285714286	2
## 2007-02-01	2	3	2
## 2007-02-05	1	1.14285714285714	1
## 2007-02-06	-7.32658378410633e-15	0	0
## 2007-02-08	1	1.71428571428571	1
## 2007-02-13	2	2.14285714285714	2
## 2007-02-20	-7.38253902454744e-15	0	0
## 2007-02-23	-8.46167580448309e-15	0	0
## 2007-03-01	-7.25819404578942e-15	0	0
## 2007-03-14	1	1.28571428571429	1
## 2007-03-20	3	3.28571428571429	3
## 2007-03-22	-7.33901828198213e-15	0	0
## 2007-03-23	-8.47499848077859e-15	0	0
## 2007-03-27	-7.40563166345964e-15	0	0
## 2007-03-28	-7.18536341537401e-15	0	0
## 2007-04-10	-7.53708206957526e-15	0	0
## 2007-04-18	4	3.71428571428571	4.37091988130564
## 2007-04-19	-7.39053263032474e-15	0	0
## 2007-04-24	-7.58682006107847e-15	0	0
## 2007-04-26	-7.34523553092004e-15	0	0
## 2007-04-27	-8.44657677134819e-15	0	0
## 2007-04-30	1	1	1
## 2007-05-03	1	1	1
## 2007-05-07	-7.02282676456889e-15	0	0
## 2007-05-08	-7.58682006107847e-15	0	0
## 2007-05-09	-7.15782988436331e-15	0	0
## 2007-05-22	3	3.28571428571429	3
## 2007-05-23	3	3.42857142857143	3
## 2007-05-30	2	2	2
## 2007-06-05	-7.58504370423907e-15	0	0
## 2007-06-07	1	1.71428571428571	1
## 2007-06-12	-7.59126095317697e-15	0	0
## 2007-06-14	1	1	1

## 2007-06-15	-8.44924130660729e-15	0	0
## 2007-06-29	5	4.85714285714286	4.37091988130564
## 2007-07-02	5	6.14285714285714	4.37091988130564
## 2007-07-06	5	5.85714285714286	4.37091988130564
## 2007-07-11	2	2.14285714285714	2
## 2007-07-13	2	2.14285714285714	2
## 2007-07-31	-7.56994467110417e-15	0	0
## 2007-08-06	2	1.85714285714286	2
## 2007-08-09	-7.33813010356244e-15	0	0
## 2007-08-13	1	1.14285714285714	1
## 2007-08-14	-7.59126095317697e-15	0	0
## 2007-08-20	3	3	3
## 2007-08-22	3	7	3
## 2007-08-23	1	1.42857142857143	1
## 2007-08-29	4	4.57142857142857	4.37091988130564
## 2007-09-04	4	4.14285714285714	4.37091988130564
## 2007-09-06	-7.41806616133545e-15	0	0
## 2007-09-11	1	1.28571428571429	1
## 2007-09-13	2	2	2
## 2007-09-17	2	1.85714285714286	2
## 2007-09-20	-7.40740802029904e-15	0	0
## 2007-09-27	-7.42161887501425e-15	0	0
## 2007-10-03	7.04676666666667	6	6.56198347107438
## 2007-10-09	7.01746666666667	7.28571428571429	6.56198347107438
## 2007-10-12	1	1.14285714285714	1
## 2007-10-15	2	2	2
## 2007-10-23	3	3.85714285714286	3
## 2007-10-24	3	3.57142857142857	3
## 2007-10-26	-8.43591863031179e-15	0	0
## 2007-10-29	1	1	1
## 2007-11-07	-7.18269888011491e-15	0	0
## 2007-11-12	3	5.28571428571429	3
## 2007-11-15	-7.42517158869305e-15	0	0
## 2007-11-16	-8.45101766344669e-15	0	0
## 2007-11-19	-6.99351687671879e-15	0	0
## 2007-11-21	2	2.57142857142857	2
## 2007-11-23	2	2.57142857142857	2
## 2007-11-28	1.01	1.42857142857143	1
## 2007-11-30	1	1.28571428571429	1
## 2007-12-06	2	2.14285714285714	2
## 2007-12-14	-8.4892093354938e-15	0	0
## 2007-12-20	3	3.42857142857143	3
## 2007-12-21	1	1	1
## 2007-12-26	-7.20312698376802e-15	0	0
## 2007-12-28	-8.4883211570741e-15	0	0
## 2007-12-31	-6.90381085632907e-15	0	0
## 2008-01-09	1	1	1
## 2008-01-14	3	3	3
## 2008-01-18	1	1	1
## 2008-01-23	1	1	1

## 2008-01-24	-7.40296712820054e-15	0	0
## 2008-02-05	3	3.28571428571429	3
## 2008-02-11	-7.01216862353249e-15	0	0
## 2008-02-20	1	1	1
## 2008-03-10	-7.00239866091579e-15	0	0
## 2008-03-12	-7.0681238639736e-15	0	0
## 2008-03-17	5	3.42857142857143	4.37091988130564
## 2008-03-24	5	4.14285714285714	4.37091988130564
## 2008-04-03	4	3.57142857142857	4.37091988130564
## 2008-04-07	4	3.85714285714286	4.37091988130564
## 2008-04-09	1	1.42857142857143	1
## 2008-04-10	1	1.14285714285714	1
## 2008-04-14	-7.01305680195219e-15	0	0
## 2008-04-30	1	1.14285714285714	1
## 2008-05-01	1	1.57142857142857	1
## 2008-05-06	-7.59392548843607e-15	0	0
## 2008-05-07	-7.01749769405069e-15	0	0
## 2008-05-12	-7.00950408827339e-15	0	0
## 2008-05-13	3	3.42857142857143	3
## 2008-05-14	3	2.71428571428571	3
## 2008-05-15	3	3.42857142857143	3
## 2008-05-16	3	3.42857142857143	3
## 2008-05-22	0.00399999999999276	0	0
## 2008-05-28	1	2.14285714285714	1
## 2008-06-02	3	3.14285714285714	3
## 2008-06-05	3	3.71428571428571	3
## 2008-06-12	3	2	3
## 2008-06-13	3	3.57142857142857	3
## 2008-06-17	3	4.14285714285714	3
## 2008-06-18	1	1.42857142857143	1
## 2008-06-23	-6.3948846218409e-15	0.714285714285714	0
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## 2008-07-01	-7.22000237374232e-15	0	0
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## 2008-07-16	2.99	2.42857142857143	3
## 2008-07-21	2	1.85714285714286	2
## 2008-07-31	6	5.28571428571429	6.56198347107438
## 2008-08-07	4	3.57142857142857	4.37091988130564
## 2008-08-08	4	2.71428571428571	4.37091988130564
## 2008-08-11	4	4.28571428571429	4.37091988130564
## 2008-08-12	4	3.14285714285714	4.37091988130564
## 2008-08-13	-7.18269888011491e-15	0	0
## 2008-08-19	-7.39230898716414e-15	0	0
## 2008-08-21	1	2	1
## 2008-08-25	-7.01305680195219e-15	0	0
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## 2008-09-04	1	2	1
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## 2008-09-12	2	2.42857142857143	2
## 2008-09-15	1	1	1

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## 2008-10-10	2	2	2
## 2008-10-16	5	2.14285714285714	4.37091988130564
## 2008-10-17	5	2.85714285714286	4.37091988130564
## 2008-10-20	5	4	4.37091988130564
## 2008-10-22	5	3.57142857142857	4.37091988130564
## 2008-10-23	1	1.85714285714286	1
## 2008-10-30	3	3.85714285714286	3
## 2008-11-03	3	3.85714285714286	3
## 2008-11-05	-7.04147851138259e-15	0	0
## 2008-11-10	1	1	1
## 2008-11-11	1	1	1
## 2008-11-18	-7.55040474587076e-15	0	0
## 2008-11-21	5	4.57142857142857	4.37091988130564
## 2008-11-24	5	3	4.37091988130564
## 2008-11-25	5	4.14285714285714	4.37091988130564
## 2008-12-09	1	0.857142857142857	1
## 2008-12-15	2	1.85714285714286	2
## 2008-12-22	-7.01660951563099e-15	0	0
## 2008-12-24	1	1	1
## 2008-12-26	-8.4821039081362e-15	0	0
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## 2009-01-07	3	3.28571428571429	3
## 2009-01-08	3	3.42857142857143	3
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## 2009-01-30	2	1.71428571428571	2
## 2009-02-04	-6.96331881044898e-15	0	0
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## 2009-02-11	2	2.42857142857143	2
## 2009-02-18	-6.83542111801216e-15	0	0
## 2009-02-20	2	1.14285714285714	2
## 2009-02-24	2	2.42857142857143	2
## 2009-02-26	-7.17292891749821e-15	0	0
## 2009-03-02	-6.73860967026485e-15	0.142857142857143	0
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## 2009-03-10	4	3.14285714285714	4.37091988130564
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## 2009-03-19	-6.96331881044898e-15	0.142857142857143	0
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## 2009-04-09	3	3.57142857142857	3
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## 2009-04-30	4	2.57142857142857	4.37091988130564
## 2009-05-12	-7.37454541877014e-15	0	0
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## 2009-06-08	1	1.14285714285714	1
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## 2009-06-16	1.99	2.57142857142857	2
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## 2009-06-22	-6.78568312650896e-15	0	0
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## 2010-12-28	2	2.28571428571429	2
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## 2011-08-26	2	2.85714285714286	2
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## 2011-11-14	-7.00772773143399e-15	0	0
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## 2012-01-18	3	3.42857142857143	3
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## 2012-04-20	-8.4705575886801e-15	0	0
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## 2012-04-27	4	3.57142857142857	4.37091988130564
## 2012-04-30	-7.01483315879159e-15	0	0
## 2012-05-04	1	1	1
## 2012-05-25	6	5.28571428571429	6.56198347107438
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## 2012-06-26	3	3.42857142857143	3
## 2012-06-27	3	3.14285714285714	3
## 2012-06-28	3	3.42857142857143	3
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## 2012-07-30	1	1	1
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## 2012-11-26	2	2.14285714285714	2
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## 2013-02-25	13.004	3	14.4
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## 2013-04-30	3	3.28571428571429	3
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## 2013-05-30	-7.42872430237185e-15	0	0
## 2013-06-04	-7.58504370423907e-15	0	0
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## 2013-11-26	1	1.28571428571429	1
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## 2014-01-22	5	5.14285714285714 4.37091988130564	
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## 2014-03-28	2	2.28571428571429	2
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## 2014-04-16	2	2.42857142857143	2
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## 2014-05-22	10	6.57142857142857	10
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## 2014-06-03	10.01	6.28571428571429	10
## 2014-06-09	1	1	1
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## 2014-06-17	5.994	5.14285714285714	6.56198347107438
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## 2020-03-09	1.9284347202075	1
## 2020-03-11	-0.542236314808473	0
## 2020-03-12	2.03902518059881	1
## 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
## 2005-09-28	0	0
## 2005-10-07	1	1
## 2005-10-10	1	1
## 2005-10-14	1	1
## 2005-10-19	0	0
## 2005-10-21	2	2
## 2005-10-24	2	2
## 2005-10-28	15	15
## 2005-11-14	15	15
## 2005-11-16	1	1
## 2005-11-22	2	2
## 2005-11-23	2	2
## 2005-12-06	2	2
## 2005-12-12	0	0
## 2005-12-13	7	8
## 2005-12-14	7	8
## 2005-12-16	7	8
## 2005-12-23	8	8
## 2005-12-27	0	0
## 2005-12-29	0	0
## 2006-01-05	3	3
## 2006-01-06	0	0
## 2006-01-09	0	0
## 2006-01-19	0	0
## 2006-01-23	2	2
## 2006-01-24	2	2
## 2006-01-26	0	0
## 2006-01-27	4	4
## 2006-02-01	4	4
## 2006-02-03	0	0
## 2006-02-07	2	2
## 2006-02-10	3	3
## 2006-02-15	3	3
## 2006-03-03	0	0
## 2006-03-09	1	1
## 2006-03-20	8	7
## 2006-03-24	1	1
## 2006-03-28	1	1

## 2006-03-29	1	1
## 2006-03-30	1	1
## 2006-04-10	0	0
## 2006-04-11	0	0
## 2006-04-12	1	1
## 2006-04-17	2	2
## 2006-04-18	2	2
## 2006-04-20	0	0
## 2006-04-27	4	4
## 2006-05-02	5	5
## 2006-05-05	5	5
## 2006-05-12	1	1
## 2006-05-25	2	2
## 2006-05-31	1	1
## 2006-06-02	0	0
## 2006-06-05	4	4
## 2006-06-06	4	4
## 2006-06-08	4	4
## 2006-06-12	0	0
## 2006-06-19	5	5
## 2006-06-28	5	5
## 2006-06-30	5	5
## 2006-07-12	0	0
## 2006-07-13	0	0
## 2006-07-21	3	3
## 2006-07-24	3	3
## 2006-07-26	3	3
## 2006-07-27	1	1
## 2006-07-28	1	1
## 2006-08-01	2	2
## 2006-08-04	0	0
## 2006-08-09	0	0
## 2006-08-10	0	0
## 2006-08-21	1	1
## 2006-08-22	1	1
## 2006-08-25	3	3
## 2006-08-31	0	0
## 2006-09-08	2	2
## 2006-09-15	0	0
## 2006-09-18	2	2
## 2006-09-20	2	2
## 2006-09-22	3	3
## 2006-09-25	3	3
## 2006-09-26	3	3
## 2006-10-02	3	3
## 2006-10-12	1	1
## 2006-10-16	0	0
## 2006-10-17	5	5
## 2006-10-18	5	5
## 2006-10-27	1	1

## 2006-10-30	1	1
## 2006-11-06	2	2
## 2006-11-13	2	2
## 2006-11-17	3	3
## 2006-11-20	3	3
## 2006-11-27	0	0
## 2006-12-08	2	2
## 2006-12-14	0	0
## 2006-12-15	0	0
## 2006-12-27	2	2
## 2007-01-04	2	2
## 2007-01-08	0	0
## 2007-01-12	1	1
## 2007-01-16	1	1
## 2007-01-17	0	0
## 2007-01-22	0	0
## 2007-01-24	2	2
## 2007-01-31	2	2
## 2007-02-01	2	2
## 2007-02-05	1	1
## 2007-02-06	0	0
## 2007-02-08	1	1
## 2007-02-13	2	2
## 2007-02-20	0	0
## 2007-02-23	0	0
## 2007-03-01	0	0
## 2007-03-14	1	1
## 2007-03-20	3	3
## 2007-03-22	0	0
## 2007-03-23	0	0
## 2007-03-27	0	0
## 2007-03-28	0	0
## 2007-04-10	0	0
## 2007-04-18	4	4
## 2007-04-19	0	0
## 2007-04-24	0	0
## 2007-04-26	0	0
## 2007-04-27	0	0
## 2007-04-30	1	1
## 2007-05-03	1	1
## 2007-05-07	0	0
## 2007-05-08	0	0
## 2007-05-09	0	0
## 2007-05-22	3	3
## 2007-05-23	3	3
## 2007-05-30	2	2
## 2007-06-05	0	0
## 2007-06-07	1	1
## 2007-06-12	0	0
## 2007-06-14	1	1

## 2007-06-15	0	0
## 2007-06-29	5	5
## 2007-07-02	5	5
## 2007-07-06	5	5
## 2007-07-11	2	2
## 2007-07-13	2	2
## 2007-07-31	0	0
## 2007-08-06	2	2
## 2007-08-09	0	0
## 2007-08-13	1	1
## 2007-08-14	0	0
## 2007-08-20	3	3
## 2007-08-22	3	3
## 2007-08-23	1	1
## 2007-08-29	4	4
## 2007-09-04	4	4
## 2007-09-06	0	0
## 2007-09-11	1	1
## 2007-09-13	2	2
## 2007-09-17	2	2
## 2007-09-20	0	0
## 2007-09-27	0	0
## 2007-10-03	7	7
## 2007-10-09	7	7
## 2007-10-12	1	1
## 2007-10-15	2	2
## 2007-10-23	3	3
## 2007-10-24	3	3
## 2007-10-26	0	0
## 2007-10-29	1	1
## 2007-11-07	0	0
## 2007-11-12	3	3
## 2007-11-15	0	0
## 2007-11-16	0	0
## 2007-11-19	0	0
## 2007-11-21	2	2
## 2007-11-23	2	2
## 2007-11-28	1	1
## 2007-11-30	1	1
## 2007-12-06	2	2
## 2007-12-14	0	0
## 2007-12-20	3	3
## 2007-12-21	1	1
## 2007-12-26	0	0
## 2007-12-28	0	0
## 2007-12-31	0	0
## 2008-01-09	1	1
## 2008-01-14	3	3
## 2008-01-18	1	1
## 2008-01-23	1	1

## 2008-01-24	0	0
## 2008-02-05	3	3
## 2008-02-11	0	0
## 2008-02-20	1	1
## 2008-03-10	0	0
## 2008-03-12	0	0
## 2008-03-17	5	5
## 2008-03-24	5	5
## 2008-04-03	4	4
## 2008-04-07	4	4
## 2008-04-09	1	1
## 2008-04-10	1	1
## 2008-04-14	0	0
## 2008-04-30	1	1
## 2008-05-01	1	1
## 2008-05-06	0	0
## 2008-05-07	0	0
## 2008-05-12	0	0
## 2008-05-13	3	3
## 2008-05-14	3	3
## 2008-05-15	3	3
## 2008-05-16	3	3
## 2008-05-22	0	0
## 2008-05-28	1	1
## 2008-06-02	3	3
## 2008-06-05	3	3
## 2008-06-12	3	3
## 2008-06-13	3	3
## 2008-06-17	3	3
## 2008-06-18	1	1
## 2008-06-23	0	0
## 2008-06-24	1	1
## 2008-07-01	0	0
## 2008-07-03	3	3
## 2008-07-16	3	3
## 2008-07-21	2	2
## 2008-07-31	6	6
## 2008-08-07	4	4
## 2008-08-08	4	4
## 2008-08-11	4	4
## 2008-08-12	4	4
## 2008-08-13	0	0
## 2008-08-19	0	0
## 2008-08-21	1	1
## 2008-08-25	0	0
## 2008-08-29	3	3
## 2008-09-04	1	1
## 2008-09-08	0	0
## 2008-09-12	2	2
## 2008-09-15	1	1

## 2008-10-02	0	0
## 2008-10-10	2	2
## 2008-10-16	5	5
## 2008-10-17	5	5
## 2008-10-20	5	5
## 2008-10-22	5	5
## 2008-10-23	1	1
## 2008-10-30	3	3
## 2008-11-03	3	3
## 2008-11-05	0	0
## 2008-11-10	1	1
## 2008-11-11	1	1
## 2008-11-18	0	0
## 2008-11-21	5	5
## 2008-11-24	5	5
## 2008-11-25	5	5
## 2008-12-09	1	1
## 2008-12-15	2	2
## 2008-12-22	0	0
## 2008-12-24	1	1
## 2008-12-26	0	0
## 2008-12-29	3	3
## 2009-01-07	3	3
## 2009-01-08	3	3
## 2009-01-21	2	2
## 2009-01-22	2	2
## 2009-01-23	2	2
## 2009-01-30	2	2
## 2009-02-04	0	0
## 2009-02-05	1	1
## 2009-02-11	2	2
## 2009-02-18	0	0
## 2009-02-20	2	2
## 2009-02-24	2	2
## 2009-02-26	0	0
## 2009-03-02	0	0
## 2009-03-04	1	1
## 2009-03-10	4	4
## 2009-03-12	4	4
## 2009-03-17	2	2
## 2009-03-19	0	0
## 2009-03-31	5	5
## 2009-04-07	3	3
## 2009-04-09	3	3
## 2009-04-20	4	4
## 2009-04-21	4	4
## 2009-04-23	4	4
## 2009-04-30	4	4
## 2009-05-12	0	0
## 2009-05-20	0	0

## 2009-05-28	3	3
## 2009-05-29	3	3
## 2009-06-01	3	3
## 2009-06-02	3	3
## 2009-06-08	1	1
## 2009-06-11	2	2
## 2009-06-12	2	2
## 2009-06-16	2	2
## 2009-06-19	0	0
## 2009-06-22	0	0
## 2009-06-26	0	0
## 2009-06-29	1	1
## 2009-07-01	1	1
## 2009-07-02	1	1
## 2009-07-08	1	1
## 2009-07-09	1	1
## 2009-07-10	1	1
## 2009-07-17	1	1
## 2009-07-20	1	1
## 2009-07-24	6	6
## 2009-08-05	2	2
## 2009-08-07	1	1
## 2009-08-11	2	2
## 2009-08-19	5	5
## 2009-08-26	5	5
## 2009-09-01	9	9
## 2009-09-08	9	9
## 2009-09-10	9	9
## 2009-09-11	9	9
## 2009-09-14	9	9
## 2009-09-21	1	1
## 2009-09-25	2	2
## 2009-09-28	0	0
## 2009-10-02	3	3
## 2009-10-05	3	3
## 2009-10-08	3	3
## 2009-10-12	3	3
## 2009-10-15	2	2
## 2009-10-21	0	0
## 2009-10-28	1	1
## 2009-11-05	3	3
## 2009-11-06	3	3
## 2009-11-09	3	3
## 2009-11-11	1	1
## 2009-12-08	0	0
## 2009-12-17	0	0
## 2009-12-30	1	1
## 2010-01-04	1	1
## 2010-01-05	1	1
## 2010-01-14	3	3

## 2010-01-28	4	4
## 2010-02-02	4	4
## 2010-02-08	3	3
## 2010-02-09	3	3
## 2010-02-12	3	3
## 2010-02-16	3	3
## 2010-02-24	4	4
## 2010-02-25	2	2
## 2010-03-05	1	1
## 2010-03-10	2	2
## 2010-03-15	0	0
## 2010-03-16	0	0
## 2010-03-19	3	3
## 2010-03-22	3	3
## 2010-03-25	0	0
## 2010-03-30	2	2
## 2010-04-06	0	0
## 2010-04-08	1	1
## 2010-04-12	1	1
## 2010-04-15	0	0
## 2010-04-28	2	2
## 2010-04-29	2	2
## 2010-04-30	1	1
## 2010-05-05	1	1
## 2010-05-07	1	1
## 2010-05-14	1	1
## 2010-05-18	1	1
## 2010-05-19	1	1
## 2010-05-20	1	1
## 2010-05-21	1	1
## 2010-05-26	4	4
## 2010-05-27	4	4
## 2010-06-03	0	0
## 2010-06-04	0	0
## 2010-06-07	1	1
## 2010-06-08	1	1
## 2010-06-16	3	3
## 2010-06-18	0	0
## 2010-06-21	0	0
## 2010-06-23	1	1
## 2010-06-24	0	0
## 2010-06-28	0	0
## 2010-06-30	2	2
## 2010-07-06	2	2
## 2010-07-07	2	2
## 2010-07-08	2	2
## 2010-07-12	1	1
## 2010-07-16	0	0
## 2010-07-19	5	5
## 2010-07-21	5	5

## 2010-08-20	0	0
## 2010-08-25	1	1
## 2010-08-31	4	4
## 2010-09-01	4	4
## 2010-09-03	4	4
## 2010-09-08	0	0
## 2010-09-17	2	2
## 2010-09-21	2	2
## 2010-09-22	0	0
## 2010-09-23	2	2
## 2010-10-01	2	2
## 2010-10-05	1	1
## 2010-10-07	1	1
## 2010-10-12	2	2
## 2010-10-13	2	2
## 2010-10-15	1	1
## 2010-10-19	1	1
## 2010-10-26	4	4
## 2010-10-29	0	0
## 2010-11-08	0	0
## 2010-11-12	1	1
## 2010-11-15	1	1
## 2010-11-16	4	4
## 2010-11-22	4	4
## 2010-11-24	1	1
## 2010-11-29	0	0
## 2010-12-06	1	1
## 2010-12-10	1	1
## 2010-12-17	2	2
## 2010-12-21	2	2
## 2010-12-28	2	2
## 2011-01-04	4	4
## 2011-01-10	4	4
## 2011-01-24	4	4
## 2011-01-31	0	0
## 2011-02-22	0	0
## 2011-02-23	0	0
## 2011-02-28	2	2
## 2011-03-02	2	2
## 2011-03-11	2	2
## 2011-03-29	1	1
## 2011-03-30	1	1
## 2011-04-04	0	0
## 2011-04-06	0	0
## 2011-04-18	2	2
## 2011-04-21	2	2
## 2011-04-29	2	2
## 2011-05-05	3	3
## 2011-05-13	1	1
## 2011-05-17	0	0

## 2011-05-19	1	1
## 2011-05-25	0	0
## 2011-05-27	0	0
## 2011-06-01	1	1
## 2011-06-02	1	1
## 2011-06-03	0	0
## 2011-06-09	2	2
## 2011-06-14	1	1
## 2011-06-15	1	1
## 2011-06-17	3	3
## 2011-06-20	3	3
## 2011-06-23	1	1
## 2011-07-01	2	2
## 2011-07-07	1	1
## 2011-07-12	0	0
## 2011-07-13	0	0
## 2011-07-18	0	0
## 2011-07-19	0	0
## 2011-07-20	0	0
## 2011-07-28	1	1
## 2011-08-02	1	1
## 2011-08-05	0	0
## 2011-08-18	0	0
## 2011-08-22	1	1
## 2011-08-23	1	1
## 2011-08-25	2	2
## 2011-08-26	2	2
## 2011-08-30	1	1
## 2011-09-08	0	0
## 2011-09-13	4	4
## 2011-10-06	3	3
## 2011-10-07	4	4
## 2011-10-13	4	4
## 2011-10-17	1	1
## 2011-10-19	1	1
## 2011-10-28	3	3
## 2011-11-01	0	0
## 2011-11-10	1	1
## 2011-11-14	0	0
## 2011-11-16	0	0
## 2011-11-29	5	5
## 2011-12-09	2	2
## 2011-12-13	3	3
## 2011-12-15	3	3
## 2011-12-23	0	0
## 2011-12-28	1	1
## 2011-12-29	1	1
## 2012-01-17	3	3
## 2012-01-18	3	3
## 2012-01-19	3	3

## 2012-01-24	5	5
## 2012-01-31	3	3
## 2012-02-01	3	3
## 2012-02-08	0	0
## 2012-02-09	0	0
## 2012-02-10	1	1
## 2012-02-16	1	1
## 2012-03-01	1	1
## 2012-03-02	1	1
## 2012-03-12	3	3
## 2012-03-13	3	3
## 2012-03-16	2	2
## 2012-03-19	2	2
## 2012-03-23	2	2
## 2012-03-30	0	0
## 2012-04-05	0	0
## 2012-04-09	0	0
## 2012-04-10	2	2
## 2012-04-13	4	4
## 2012-04-17	4	4
## 2012-04-20	0	0
## 2012-04-23	4	4
## 2012-04-25	4	4
## 2012-04-27	4	4
## 2012-04-30	0	0
## 2012-05-04	1	1
## 2012-05-25	6	6
## 2012-06-05	2	2
## 2012-06-26	3	3
## 2012-06-27	3	3
## 2012-06-28	3	3
## 2012-07-19	0	0
## 2012-07-25	2	2
## 2012-07-27	2	2
## 2012-07-30	1	1
## 2012-07-31	1	1
## 2012-08-06	0	0
## 2012-08-07	1	1
## 2012-08-14	1	1
## 2012-08-17	4	4
## 2012-08-20	4	4
## 2012-08-23	1	1
## 2012-08-28	0	0
## 2012-08-29	0	0
## 2012-08-30	1	1
## 2012-09-10	0	0
## 2012-09-13	0	0
## 2012-09-27	4	4
## 2012-10-09	1	1
## 2012-10-12	5	5

## 2012-10-16	5	5
## 2012-10-31	2	2
## 2012-11-14	1	1
## 2012-11-16	2	2
## 2012-11-26	2	2
## 2012-11-30	0	0
## 2012-12-03	0	0
## 2012-12-05	4	4
## 2012-12-12	1	1
## 2012-12-17	3	3
## 2012-12-18	3	3
## 2012-12-21	0	0
## 2012-12-26	0	0
## 2012-12-31	2	2
## 2013-01-03	3	3
## 2013-01-04	3	3
## 2013-01-10	1	1
## 2013-01-11	0	0
## 2013-01-14	0	0
## 2013-01-22	2	2
## 2013-01-29	0	0
## 2013-02-05	3	3
## 2013-02-06	3	3
## 2013-02-21	2	2
## 2013-02-25	13	13
## 2013-02-26	13	13
## 2013-02-27	13	13
## 2013-03-04	13	13
## 2013-03-07	13	13
## 2013-03-08	13	13
## 2013-03-11	13	13
## 2013-03-12	13	13
## 2013-03-18	3	3
## 2013-04-09	2	2
## 2013-04-10	2	2
## 2013-04-16	2	2
## 2013-04-17	2	2
## 2013-04-19	0	0
## 2013-04-23	2	2
## 2013-04-24	2	2
## 2013-04-30	3	3
## 2013-05-09	3	3
## 2013-05-15	3	3
## 2013-05-20	0	0
## 2013-05-24	2	2
## 2013-05-30	0	0
## 2013-06-04	0	0
## 2013-06-10	2	2
## 2013-06-12	1	1
## 2013-06-14	2	2

## 2013-06-18	2	2
## 2013-06-20	0	0
## 2013-06-21	0	0
## 2013-06-25	1	1
## 2013-07-02	4	4
## 2013-07-10	5	5
## 2013-07-12	5	5
## 2013-07-16	5	5
## 2013-07-19	0	0
## 2013-07-23	4	4
## 2013-07-30	2	2
## 2013-08-07	1	1
## 2013-08-08	1	1
## 2013-08-21	3	3
## 2013-08-26	1	1
## 2013-08-29	5	5
## 2013-09-10	2	2
## 2013-09-12	3	3
## 2013-09-17	3	3
## 2013-09-23	3	3
## 2013-10-03	4	4
## 2013-10-15	5	5
## 2013-10-22	5	5
## 2013-10-23	1	1
## 2013-10-25	0	0
## 2013-10-30	2	2
## 2013-10-31	2	2
## 2013-11-08	3	3
## 2013-11-14	3	3
## 2013-11-20	0	0
## 2013-11-22	1	1
## 2013-11-26	1	1
## 2013-11-29	0	0
## 2013-12-10	5	5
## 2013-12-19	1	1
## 2013-12-23	1	1
## 2014-01-06	4	4
## 2014-01-17	5	5
## 2014-01-21	5	5
## 2014-01-22	5	5
## 2014-01-23	5	5
## 2014-01-27	3	3
## 2014-01-30	3	3
## 2014-02-03	2	2
## 2014-02-11	0	0
## 2014-02-21	5	5
## 2014-02-25	5	5
## 2014-02-26	0	0
## 2014-03-03	4	4
## 2014-03-06	4	4

## 2014-03-07	4	4
## 2014-03-12	0	0
## 2014-03-18	0	0
## 2014-03-19	0	0
## 2014-03-24	2	2
## 2014-03-25	2	2
## 2014-03-28	2	2
## 2014-03-31	2	2
## 2014-04-01	2	2
## 2014-04-04	0	0
## 2014-04-07	2	2
## 2014-04-16	2	2
## 2014-04-22	4	4
## 2014-04-28	1	1
## 2014-05-01	7	8
## 2014-05-02	8	8
## 2014-05-06	8	8
## 2014-05-15	2	2
## 2014-05-16	2	2
## 2014-05-19	2	2
## 2014-05-20	10	10
## 2014-05-22	10	10
## 2014-06-02	10	10
## 2014-06-03	10	10
## 2014-06-09	1	1
## 2014-06-12	6	6
## 2014-06-13	6	6
## 2014-06-17	6	6
## 2014-06-26	2	2
## 2014-06-27	0	0
## 2014-06-30	1	1
## 2014-07-16	0	0
## 2014-07-17	1	1
## 2014-07-21	0	0
## 2014-07-22	1	1
## 2014-08-04	0	0
## 2014-08-08	2	2
## 2014-08-11	2	2
## 2014-08-21	1	1
## 2014-08-22	1	1
## 2014-08-27	1	1
## 2014-08-29	1	1
## 2014-09-18	1	1
## 2014-09-24	1	1
## 2014-09-25	1	1
## 2014-09-26	1	1
## 2014-09-29	1	1
## 2014-10-01	0	0
## 2014-10-02	1	1
## 2014-10-07	0	0

## 2014-10-10	0	0
## 2014-10-13	6	6
## 2014-10-30	4	4
## 2014-11-03	4	4
## 2014-11-13	1	1
## 2014-11-17	1	1
## 2014-11-19	1	1
## 2014-11-28	3	3
## 2014-12-02	3	3
## 2014-12-09	2	2
## 2014-12-11	2	2
## 2014-12-15	1	1
## 2014-12-17	4	4
## 2014-12-18	4	4
## 2015-01-02	6	6
## 2015-01-06	0	0
## 2015-01-07	1	1
## 2015-01-08	1	1
## 2015-01-13	1	1
## 2015-01-15	5	5
## 2015-01-20	5	5
## 2015-01-23	5	5
## 2015-01-29	1	1
## 2015-01-30	0	0
## 2015-02-02	0	0
## 2015-02-03	1	1
## 2015-02-05	0	0
## 2015-02-11	2	2
## 2015-02-18	5	5
## 2015-02-23	5	5
## 2015-02-27	3	3
## 2015-03-03	3	3
## 2015-03-06	0	0
## 2015-03-09	0	0
## 2015-03-10	7	8
## 2015-03-11	7	8
## 2015-03-12	8	8
## 2015-03-16	7	8
## 2015-03-20	8	8
## 2015-03-23	0	0
## 2015-03-30	2	2
## 2015-04-06	0	0
## 2015-04-20	5	5
## 2015-04-23	5	5
## 2015-04-24	5	5
## 2015-05-01	1	1
## 2015-05-11	1	1
## 2015-05-14	1	1
## 2015-05-27	1	1
## 2015-06-01	2	2

## 2015-06-02	0	0
## 2015-06-10	2	2
## 2015-06-16	4	4
## 2015-06-22	4	4
## 2015-06-23	0	0
## 2015-06-24	0	0
## 2015-06-25	0	0
## 2015-06-29	1	1
## 2015-07-02	3	3
## 2015-07-08	3	3
## 2015-07-10	3	3
## 2015-07-14	0	0
## 2015-07-24	2	2
## 2015-07-28	2	2
## 2015-07-31	3	3
## 2015-08-07	2	2
## 2015-08-10	2	2
## 2015-08-17	3	3
## 2015-08-19	0	0
## 2015-08-24	0	0
## 2015-08-28	3	3
## 2015-09-02	3	3
## 2015-09-09	8	8
## 2015-09-15	8	8
## 2015-09-18	0	0
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## 2015-09-23	1	1
## 2015-09-24	0	0
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## 2015-10-12	4	4
## 2015-10-19	2	2
## 2015-10-28	0	0
## 2015-10-29	3	3
## 2015-11-06	0	0
## 2015-11-17	0	0
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## 2015-11-20	1	1
## 2015-11-23	1	1
## 2015-11-24	2	2
## 2015-11-27	2	2
## 2015-12-07	2	2
## 2015-12-11	0	0
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## 2015-12-16	2	2
## 2015-12-17	0	0
## 2015-12-21	4	4
## 2015-12-24	4	4
## 2015-12-30	0	0
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## 2016-01-05	1	1

## 2016-01-06	1	1
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## 2016-01-12	2	2
## 2016-01-13	1	1
## 2016-01-14	1	1
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## 2016-01-25	2	2
## 2016-01-29	2	2
## 2016-02-04	2	2
## 2016-02-10	2	2
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## 2016-03-16	1	1
## 2016-03-28	3	3
## 2016-04-11	5	5
## 2016-04-14	5	5
## 2016-05-04	0	0
## 2016-05-19	0	0
## 2016-05-24	2	2
## 2016-05-31	3	3
## 2016-06-09	4	4
## 2016-06-14	1	1
## 2016-06-16	3	3
## 2016-06-17	3	3
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## 2016-07-06	4	4
## 2016-07-07	4	4
## 2016-07-08	4	4
## 2016-07-11	4	4
## 2016-07-20	0	0
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## 2016-07-28	1	1
## 2016-08-02	0	0
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## 2016-08-09	1	1
## 2016-08-12	2	2
## 2016-08-15	2	2
## 2016-08-18	1	1
## 2016-08-24	3	3
## 2016-08-26	0	0
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## 2016-09-01	4	4
## 2016-09-14	1	1
## 2016-09-23	2	2
## 2016-10-06	2	2
## 2016-10-14	0	0

## 2016-10-24	0	0
## 2016-10-25	0	0
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## 2016-11-01	0	0
## 2016-11-02	0	0
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## 2016-11-08	4	4
## 2016-11-11	3	3
## 2016-11-16	2	2
## 2016-11-18	2	2
## 2016-11-23	2	2
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## 2016-12-01	1	1
## 2016-12-07	2	2
## 2016-12-09	1	1
## 2016-12-12	3	3
## 2016-12-30	0	0
## 2017-01-05	4	4
## 2017-01-12	0	0
## 2017-01-18	1	1
## 2017-01-19	1	1
## 2017-01-25	3	3
## 2017-01-26	3	3
## 2017-02-08	3	3
## 2017-02-14	1	1
## 2017-02-24	4	4
## 2017-02-27	4	4
## 2017-03-06	0	0
## 2017-03-08	1	1
## 2017-03-13	0	0
## 2017-03-15	2	2
## 2017-03-20	0	0
## 2017-03-22	4	4
## 2017-03-27	4	4
## 2017-03-28	4	4
## 2017-03-30	1	1
## 2017-04-03	1	1
## 2017-04-05	6	6
## 2017-04-06	6	6
## 2017-04-10	6	6
## 2017-04-25	2	2
## 2017-04-28	0	0
## 2017-05-08	4	4
## 2017-05-09	4	4
## 2017-05-11	0	0
## 2017-05-19	6	6
## 2017-05-24	6	6
## 2017-05-25	6	6
## 2017-06-01	4	4

## 2017-06-09	0	0
## 2017-06-12	0	0
## 2017-06-13	0	0
## 2017-06-14	0	0
## 2017-06-16	1	1
## 2017-06-20	2	2
## 2017-06-22	2	2
## 2017-06-29	8	7
## 2017-07-05	7	7
## 2017-07-06	8	7
## 2017-07-07	8	7
## 2017-07-12	3	3
## 2017-07-17	0	0
## 2017-07-18	0	0
## 2017-07-25	1	1
## 2017-08-01	1	1
## 2017-08-15	0	0
## 2017-08-16	0	0
## 2017-08-17	0	0
## 2017-08-18	1	1
## 2017-08-24	1	1
## 2017-08-31	2	2
## 2017-09-01	2	2
## 2017-09-07	0	0
## 2017-09-12	3	3
## 2017-09-27	1	1
## 2017-09-28	1	1
## 2017-10-04	3	3
## 2017-10-06	1	1
## 2017-10-11	0	0
## 2017-10-13	1	1
## 2017-10-24	1	1
## 2017-10-26	0	0
## 2017-11-17	3	3
## 2017-11-24	0	0
## 2017-11-28	3	3
## 2017-11-30	3	3
## 2017-12-11	4	4
## 2017-12-15	3	3
## 2017-12-22	1	1
## 2017-12-27	1	1
## 2018-01-04	1	1
## 2018-01-11	3	3
## 2018-01-22	2	2
## 2018-01-23	2	2
## 2018-01-24	0	0
## 2018-01-30	1	1
## 2018-02-01	0	0
## 2018-02-08	0	0
## 2018-02-09	4	4

## 2018-02-14	4	4
## 2018-02-15	4	4
## 2018-02-21	5	5
## 2018-02-22	5	5
## 2018-03-07	6	6
## 2018-03-12	6	6
## 2018-03-13	0	0
## 2018-03-20	1	1
## 2018-03-26	1	1
## 2018-03-27	0	0
## 2018-03-29	1	1
## 2018-04-05	3	3
## 2018-04-18	1	1
## 2018-04-20	0	0
## 2018-04-23	0	0
## 2018-04-30	1	1
## 2018-05-02	0	0
## 2018-05-03	1	1
## 2018-05-07	1	1
## 2018-05-08	1	1
## 2018-05-11	2	2
## 2018-05-16	2	2
## 2018-05-17	0	0
## 2018-05-23	2	2
## 2018-06-05	1	1
## 2018-06-06	1	1
## 2018-06-19	1	1
## 2018-06-21	0	0
## 2018-06-29	1	1
## 2018-07-05	3	3
## 2018-07-06	3	3
## 2018-07-17	5	5
## 2018-07-26	2	2
## 2018-07-27	0	0
## 2018-08-01	0	0
## 2018-08-02	1	1
## 2018-08-03	1	1
## 2018-08-09	0	0
## 2018-08-27	2	2
## 2018-08-30	2	2
## 2018-09-04	2	2
## 2018-09-07	2	2
## 2018-09-20	8	7
## 2018-10-01	0	0
## 2018-10-02	1	1
## 2018-10-04	0	0
## 2018-10-18	0	0
## 2018-10-23	2	2
## 2018-11-07	1	1
## 2018-11-13	3	3

## 2018-11-14	3	3
## 2018-11-15	0	0
## 2018-11-19	0	0
## 2018-12-03	0	0
## 2018-12-10	3	3
## 2018-12-13	0	0
## 2018-12-14	0	0
## 2018-12-24	1	1
## 2018-12-27	0	0
## 2019-01-04	2	2
## 2019-01-10	0	0
## 2019-01-25	3	3
## 2019-01-31	3	3
## 2019-02-05	3	3
## 2019-02-22	3	3
## 2019-02-25	3	3
## 2019-03-01	0	0
## 2019-03-04	0	0
## 2019-03-06	0	0
## 2019-03-07	0	0
## 2019-03-13	2	2
## 2019-03-14	2	2
## 2019-03-20	1	1
## 2019-03-21	1	1
## 2019-03-22	0	0
## 2019-03-26	1	1
## 2019-03-27	1	1
## 2019-03-29	6	6
## 2019-04-10	2	2
## 2019-04-15	2	2
## 2019-04-22	2	2
## 2019-04-24	2	2
## 2019-04-29	2	2
## 2019-05-06	0	0
## 2019-05-07	0	0
## 2019-05-08	2	2
## 2019-05-10	2	2
## 2019-05-16	1	1
## 2019-05-22	0	0
## 2019-06-10	0	0
## 2019-06-14	0	0
## 2019-06-19	1	1
## 2019-06-21	1	1
## 2019-06-26	4	4
## 2019-07-10	3	3
## 2019-07-11	3	3
## 2019-07-19	0	0
## 2019-07-23	2	2
## 2019-08-05	0	0
## 2019-08-06	2	2

## 2019-08-07	2	2
## 2019-08-14	0	0
## 2019-08-16	2	2
## 2019-08-23	0	0
## 2019-09-06	9	9
## 2019-09-19	0	0
## 2019-09-26	0	0
## 2019-09-30	0	0
## 2019-10-03	1	1
## 2019-10-07	6	6
## 2019-10-08	6	6
## 2019-10-09	6	6
## 2019-10-10	6	6
## 2019-10-21	2	2
## 2019-10-22	4	4
## 2019-10-25	4	4
## 2019-10-28	4	4
## 2019-10-31	3	3
## 2019-11-01	3	3
## 2019-11-06	0	0
## 2019-11-07	0	0
## 2019-11-08	0	0
## 2019-11-14	2	2
## 2019-11-15	2	2
## 2019-11-19	1	1
## 2019-12-02	0	0
## 2019-12-05	1	1
## 2019-12-09	0	0
## 2019-12-10	0	0
## 2019-12-12	1	1
## 2019-12-13	2	2
## 2019-12-16	2	2
## 2019-12-18	3	3
## 2019-12-24	1	1
## 2019-12-26	1	1
## 2019-12-27	0	0
## 2020-01-13	5	5
## 2020-01-22	2	2
## 2020-01-23	2	2
## 2020-01-27	1	1
## 2020-02-07	4	4
## 2020-02-13	0	0
## 2020-02-14	0	0
## 2020-02-18	0	0
## 2020-02-21	0	0
## 2020-02-24	0	0
## 2020-02-25	0	0
## 2020-02-27	0	0
## 2020-03-06	0	0
## 2020-03-09	1	1

```

## 2020-03-11          0          0
## 2020-03-12          1          1

sum <- sum(predRF_round==testingSet$incrDaysThisCycle)
length <- length(testingSet$incrDaysThisCycle)
accuracy_rfMod_round <- (sum/length)
accuracy_rfMod_round

## [1] 0.9889908

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
## 2005-09-28           0              0
## 2005-10-07           1              1
## 2005-10-10           1              1
## 2005-10-14           1              1
## 2005-10-19           0              0
## 2005-10-21           2              2
## 2005-10-24           2              2
## 2005-10-28          15             15
## 2005-11-14          15             15
## 2005-11-16           1              1
## 2005-11-22           2              2
## 2005-11-23           2              2
## 2005-12-06           2              2
## 2005-12-12           0              0
## 2005-12-13           7              8
## 2005-12-14           7              8
## 2005-12-16           7              8
## 2005-12-23           8              8
## 2005-12-27           0              0
## 2005-12-29           0              0
## 2006-01-05           3              3
## 2006-01-06           0              0
## 2006-01-09           0              0
## 2006-01-19           0              0
## 2006-01-23           2              2
## 2006-01-24           2              2
## 2006-01-26           0              0
## 2006-01-27           4              4
## 2006-02-01           4              4
## 2006-02-03           0              0
## 2006-02-07           2              2
## 2006-02-10           3              3

```

## 2006-02-15	3	3
## 2006-03-03	0	0
## 2006-03-09	1	1
## 2006-03-20	8	7
## 2006-03-24	1	1
## 2006-03-28	1	1
## 2006-03-29	1	1
## 2006-03-30	1	1
## 2006-04-10	0	0
## 2006-04-11	0	0
## 2006-04-12	1	1
## 2006-04-17	2	2
## 2006-04-18	2	2
## 2006-04-20	0	0
## 2006-04-27	4	4
## 2006-05-02	5	5
## 2006-05-05	5	5
## 2006-05-12	1	1
## 2006-05-25	2	2
## 2006-05-31	1	1
## 2006-06-02	0	0
## 2006-06-05	4	4
## 2006-06-06	4	4
## 2006-06-08	4	4
## 2006-06-12	0	0
## 2006-06-19	5	5
## 2006-06-28	5	5
## 2006-06-30	5	5
## 2006-07-12	0	0
## 2006-07-13	0	0
## 2006-07-21	3	3
## 2006-07-24	3	3
## 2006-07-26	3	3
## 2006-07-27	1	1
## 2006-07-28	1	1
## 2006-08-01	2	2
## 2006-08-04	0	0
## 2006-08-09	0	0
## 2006-08-10	0	0
## 2006-08-21	1	1
## 2006-08-22	1	1
## 2006-08-25	3	3
## 2006-08-31	0	0
## 2006-09-08	2	2
## 2006-09-15	0	0
## 2006-09-18	2	2
## 2006-09-20	2	2
## 2006-09-22	3	3
## 2006-09-25	3	3
## 2006-09-26	3	3

## 2006-10-02	3	3
## 2006-10-12	1	1
## 2006-10-16	0	0
## 2006-10-17	5	5
## 2006-10-18	5	5
## 2006-10-27	1	1
## 2006-10-30	1	1
## 2006-11-06	2	2
## 2006-11-13	2	2
## 2006-11-17	3	3
## 2006-11-20	3	3
## 2006-11-27	0	0
## 2006-12-08	2	2
## 2006-12-14	0	0
## 2006-12-15	0	0
## 2006-12-27	2	2
## 2007-01-04	2	2
## 2007-01-08	0	0
## 2007-01-12	1	1
## 2007-01-16	1	1
## 2007-01-17	0	0
## 2007-01-22	0	0
## 2007-01-24	2	2
## 2007-01-31	2	2
## 2007-02-01	2	2
## 2007-02-05	1	1
## 2007-02-06	0	0
## 2007-02-08	1	1
## 2007-02-13	2	2
## 2007-02-20	0	0
## 2007-02-23	0	0
## 2007-03-01	0	0
## 2007-03-14	1	1
## 2007-03-20	3	3
## 2007-03-22	0	0
## 2007-03-23	0	0
## 2007-03-27	0	0
## 2007-03-28	0	0
## 2007-04-10	0	0
## 2007-04-18	4	4
## 2007-04-19	0	0
## 2007-04-24	0	0
## 2007-04-26	0	0
## 2007-04-27	0	0
## 2007-04-30	1	1
## 2007-05-03	1	1
## 2007-05-07	0	0
## 2007-05-08	0	0
## 2007-05-09	0	0
## 2007-05-22	3	3

## 2007-05-23	3	3
## 2007-05-30	2	2
## 2007-06-05	0	0
## 2007-06-07	1	1
## 2007-06-12	0	0
## 2007-06-14	1	1
## 2007-06-15	0	0
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## 2007-07-02	5	5
## 2007-07-06	5	5
## 2007-07-11	2	2
## 2007-07-13	2	2
## 2007-07-31	0	0
## 2007-08-06	2	2
## 2007-08-09	0	0
## 2007-08-13	1	1
## 2007-08-14	0	0
## 2007-08-20	3	3
## 2007-08-22	3	3
## 2007-08-23	1	1
## 2007-08-29	4	4
## 2007-09-04	4	4
## 2007-09-06	0	0
## 2007-09-11	1	1
## 2007-09-13	2	2
## 2007-09-17	2	2
## 2007-09-20	0	0
## 2007-09-27	0	0
## 2007-10-03	7	7
## 2007-10-09	7	7
## 2007-10-12	1	1
## 2007-10-15	2	2
## 2007-10-23	3	3
## 2007-10-24	3	3
## 2007-10-26	0	0
## 2007-10-29	1	1
## 2007-11-07	0	0
## 2007-11-12	3	3
## 2007-11-15	0	0
## 2007-11-16	0	0
## 2007-11-19	0	0
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## 2007-11-23	2	2
## 2007-11-28	1	1
## 2007-11-30	1	1
## 2007-12-06	2	2
## 2007-12-14	0	0
## 2007-12-20	3	3
## 2007-12-21	1	1
## 2007-12-26	0	0

## 2007-12-28	0	0
## 2007-12-31	0	0
## 2008-01-09	1	1
## 2008-01-14	3	3
## 2008-01-18	1	1
## 2008-01-23	1	1
## 2008-01-24	0	0
## 2008-02-05	3	3
## 2008-02-11	0	0
## 2008-02-20	1	1
## 2008-03-10	0	0
## 2008-03-12	0	0
## 2008-03-17	5	5
## 2008-03-24	5	5
## 2008-04-03	4	4
## 2008-04-07	4	4
## 2008-04-09	1	1
## 2008-04-10	1	1
## 2008-04-14	0	0
## 2008-04-30	1	1
## 2008-05-01	1	1
## 2008-05-06	0	0
## 2008-05-07	0	0
## 2008-05-12	0	0
## 2008-05-13	3	3
## 2008-05-14	3	3
## 2008-05-15	3	3
## 2008-05-16	3	3
## 2008-05-22	0	0
## 2008-05-28	1	1
## 2008-06-02	3	3
## 2008-06-05	3	3
## 2008-06-12	3	3
## 2008-06-13	3	3
## 2008-06-17	3	3
## 2008-06-18	1	1
## 2008-06-23	0	0
## 2008-06-24	1	1
## 2008-07-01	0	0
## 2008-07-03	3	3
## 2008-07-16	3	3
## 2008-07-21	2	2
## 2008-07-31	6	6
## 2008-08-07	4	4
## 2008-08-08	4	4
## 2008-08-11	4	4
## 2008-08-12	4	4
## 2008-08-13	0	0
## 2008-08-19	0	0
## 2008-08-21	1	1

## 2008-08-25	0	0
## 2008-08-29	3	3
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## 2017-09-28	1	1
## 2017-10-04	3	3
## 2017-10-06	1	1
## 2017-10-11	0	0
## 2017-10-13	1	1
## 2017-10-24	1	1
## 2017-10-26	0	0
## 2017-11-17	3	3
## 2017-11-24	0	0
## 2017-11-28	3	3
## 2017-11-30	3	3
## 2017-12-11	4	4
## 2017-12-15	3	3
## 2017-12-22	1	1
## 2017-12-27	1	1
## 2018-01-04	1	1
## 2018-01-11	3	3
## 2018-01-22	2	2

## 2018-01-23	2	2
## 2018-01-24	0	0
## 2018-01-30	1	1
## 2018-02-01	0	0
## 2018-02-08	0	0
## 2018-02-09	4	4
## 2018-02-14	4	4
## 2018-02-15	4	4
## 2018-02-21	5	5
## 2018-02-22	5	5
## 2018-03-07	6	6
## 2018-03-12	6	6
## 2018-03-13	0	0
## 2018-03-20	1	1
## 2018-03-26	1	1
## 2018-03-27	0	0
## 2018-03-29	1	1
## 2018-04-05	3	3
## 2018-04-18	1	1
## 2018-04-20	0	0
## 2018-04-23	0	0
## 2018-04-30	1	1
## 2018-05-02	0	0
## 2018-05-03	1	1
## 2018-05-07	1	1
## 2018-05-08	1	1
## 2018-05-11	2	2
## 2018-05-16	2	2
## 2018-05-17	0	0
## 2018-05-23	2	2
## 2018-06-05	1	1
## 2018-06-06	1	1
## 2018-06-19	1	1
## 2018-06-21	0	0
## 2018-06-29	1	1
## 2018-07-05	3	3
## 2018-07-06	3	3
## 2018-07-17	5	5
## 2018-07-26	2	2
## 2018-07-27	0	0
## 2018-08-01	0	0
## 2018-08-02	1	1
## 2018-08-03	1	1
## 2018-08-09	0	0
## 2018-08-27	2	2
## 2018-08-30	2	2
## 2018-09-04	2	2
## 2018-09-07	2	2
## 2018-09-20	8	7
## 2018-10-01	0	0

## 2018-10-02	1	1
## 2018-10-04	0	0
## 2018-10-18	0	0
## 2018-10-23	2	2
## 2018-11-07	1	1
## 2018-11-13	3	3
## 2018-11-14	3	3
## 2018-11-15	0	0
## 2018-11-19	0	0
## 2018-12-03	0	0
## 2018-12-10	3	3
## 2018-12-13	0	0
## 2018-12-14	0	0
## 2018-12-24	1	1
## 2018-12-27	0	0
## 2019-01-04	2	2
## 2019-01-10	0	0
## 2019-01-25	3	3
## 2019-01-31	3	3
## 2019-02-05	3	3
## 2019-02-22	3	3
## 2019-02-25	3	3
## 2019-03-01	0	0
## 2019-03-04	0	0
## 2019-03-06	0	0
## 2019-03-07	0	0
## 2019-03-13	2	2
## 2019-03-14	2	2
## 2019-03-20	1	1
## 2019-03-21	1	1
## 2019-03-22	0	0
## 2019-03-26	1	1
## 2019-03-27	1	1
## 2019-03-29	6	6
## 2019-04-10	2	2
## 2019-04-15	2	2
## 2019-04-22	2	2
## 2019-04-24	2	2
## 2019-04-29	2	2
## 2019-05-06	0	0
## 2019-05-07	0	0
## 2019-05-08	2	2
## 2019-05-10	2	2
## 2019-05-16	1	1
## 2019-05-22	0	0
## 2019-06-10	0	0
## 2019-06-14	0	0
## 2019-06-19	1	1
## 2019-06-21	1	1
## 2019-06-26	4	4

## 2019-07-10	3	3
## 2019-07-11	3	3
## 2019-07-19	0	0
## 2019-07-23	2	2
## 2019-08-05	0	0
## 2019-08-06	2	2
## 2019-08-07	2	2
## 2019-08-14	0	0
## 2019-08-16	2	2
## 2019-08-23	0	0
## 2019-09-06	9	9
## 2019-09-19	0	0
## 2019-09-26	0	0
## 2019-09-30	0	0
## 2019-10-03	1	1
## 2019-10-07	6	6
## 2019-10-08	6	6
## 2019-10-09	6	6
## 2019-10-10	6	6
## 2019-10-21	2	2
## 2019-10-22	4	4
## 2019-10-25	4	4
## 2019-10-28	4	4
## 2019-10-31	3	3
## 2019-11-01	3	3
## 2019-11-06	0	0
## 2019-11-07	0	0
## 2019-11-08	0	0
## 2019-11-14	2	2
## 2019-11-15	2	2
## 2019-11-19	1	1
## 2019-12-02	0	0
## 2019-12-05	1	1
## 2019-12-09	0	0
## 2019-12-10	0	0
## 2019-12-12	1	1
## 2019-12-13	2	2
## 2019-12-16	2	2
## 2019-12-18	3	3
## 2019-12-24	1	1
## 2019-12-26	1	1
## 2019-12-27	0	0
## 2020-01-13	5	5
## 2020-01-22	2	2
## 2020-01-23	2	2
## 2020-01-27	1	1
## 2020-02-07	4	4
## 2020-02-13	0	0
## 2020-02-14	0	0
## 2020-02-18	0	0

```

## 2020-02-21          0          0
## 2020-02-24          0          0
## 2020-02-25          0          0
## 2020-02-27          0          0
## 2020-03-06          0          0
## 2020-03-09          1          1
## 2020-03-11          0          0
## 2020-03-12          1          1
## results_round      0.99      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','IncreasingDaysT
hisCycle')

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', 'IncreasingDaysT
hisCycle')
Results_round <- rbind(predDF2_round, results_round)
Results_round

```

##	RandomForest_round	KNN_round	Rpart_round	GLM_round
## 2005-09-28	0	0	0	0
## 2005-10-07	1	1	1	2
## 2005-10-10	1	1	1	2
## 2005-10-14	1	1	1	2
## 2005-10-19	0	0	0	0
## 2005-10-21	2	3	2	3
## 2005-10-24	2	2	2	3
## 2005-10-28	15	5	14	4
## 2005-11-14	15	5	14	4
## 2005-11-16	1	1	1	2
## 2005-11-22	2	2	2	3
## 2005-11-23	2	2	2	3
## 2005-12-06	2	3	2	3
## 2005-12-12	0	0	0	0
## 2005-12-13	7	7	7	4
## 2005-12-14	7	5	7	4
## 2005-12-16	7	6	7	4
## 2005-12-23	8	7	7	4
## 2005-12-27	0	0	0	0
## 2005-12-29	0	0	0	0
## 2006-01-05	3	3	3	4
## 2006-01-06	0	0	0	0
## 2006-01-09	0	0	0	0
## 2006-01-19	0	0	0	0
## 2006-01-23	2	2	2	3
## 2006-01-24	2	3	2	3
## 2006-01-26	0	0	0	0
## 2006-01-27	4	3	4	4
## 2006-02-01	4	4	4	4
## 2006-02-03	0	0	0	0
## 2006-02-07	2	2	2	3
## 2006-02-10	3	3	3	3
## 2006-02-15	3	3	3	4
## 2006-03-03	0	0	0	0
## 2006-03-09	1	1	1	2
## 2006-03-20	8	5	7	4
## 2006-03-24	1	1	1	2
## 2006-03-28	1	1	1	2

## 2006-03-29	1	1	1	2
## 2006-03-30	1	1	1	2
## 2006-04-10	0	0	0	0
## 2006-04-11	0	0	0	0
## 2006-04-12	1	1	1	2
## 2006-04-17	2	2	2	3
## 2006-04-18	2	2	2	3
## 2006-04-20	0	0	0	0
## 2006-04-27	4	4	4	4
## 2006-05-02	5	4	4	4
## 2006-05-05	5	5	4	4
## 2006-05-12	1	1	1	2
## 2006-05-25	2	2	2	3
## 2006-05-31	1	1	1	2
## 2006-06-02	0	0	0	0
## 2006-06-05	4	3	4	4
## 2006-06-06	4	4	4	4
## 2006-06-08	4	4	4	4
## 2006-06-12	0	0	0	0
## 2006-06-19	5	4	4	4
## 2006-06-28	5	3	4	4
## 2006-06-30	5	5	4	4
## 2006-07-12	0	0	0	0
## 2006-07-13	0	0	0	0
## 2006-07-21	3	3	3	3
## 2006-07-24	3	4	3	3
## 2006-07-26	3	3	3	4
## 2006-07-27	1	1	1	2
## 2006-07-28	1	1	1	2
## 2006-08-01	2	2	2	3
## 2006-08-04	0	0	0	0
## 2006-08-09	0	0	0	0
## 2006-08-10	0	0	0	0
## 2006-08-21	1	1	1	2
## 2006-08-22	1	1	1	2
## 2006-08-25	3	3	3	3
## 2006-08-31	0	0	0	0
## 2006-09-08	2	2	2	3
## 2006-09-15	0	0	0	0
## 2006-09-18	2	2	2	3
## 2006-09-20	2	2	2	3
## 2006-09-22	3	3	3	4
## 2006-09-25	3	3	3	3
## 2006-09-26	3	3	3	3
## 2006-10-02	3	3	3	3
## 2006-10-12	1	1	1	2
## 2006-10-16	0	0	0	0
## 2006-10-17	5	4	4	4
## 2006-10-18	5	5	4	4
## 2006-10-27	1	1	1	2

## 2006-10-30	1	1	1	2
## 2006-11-06	2	2	2	3
## 2006-11-13	2	3	2	3
## 2006-11-17	3	3	3	3
## 2006-11-20	3	4	3	3
## 2006-11-27	0	0	0	0
## 2006-12-08	2	2	2	3
## 2006-12-14	0	0	0	0
## 2006-12-15	0	0	0	0
## 2006-12-27	2	2	2	3
## 2007-01-04	2	3	2	3
## 2007-01-08	0	0	0	0
## 2007-01-12	1	1	1	2
## 2007-01-16	1	2	1	2
## 2007-01-17	0	0	0	0
## 2007-01-22	0	0	0	0
## 2007-01-24	2	2	2	3
## 2007-01-31	2	2	2	3
## 2007-02-01	2	3	2	3
## 2007-02-05	1	1	1	2
## 2007-02-06	0	0	0	0
## 2007-02-08	1	2	1	2
## 2007-02-13	2	2	2	3
## 2007-02-20	0	0	0	0
## 2007-02-23	0	0	0	0
## 2007-03-01	0	0	0	0
## 2007-03-14	1	1	1	2
## 2007-03-20	3	3	3	4
## 2007-03-22	0	0	0	0
## 2007-03-23	0	0	0	0
## 2007-03-27	0	0	0	0
## 2007-03-28	0	0	0	0
## 2007-04-10	0	0	0	0
## 2007-04-18	4	4	4	4
## 2007-04-19	0	0	0	0
## 2007-04-24	0	0	0	0
## 2007-04-26	0	0	0	0
## 2007-04-27	0	0	0	0
## 2007-04-30	1	1	1	2
## 2007-05-03	1	1	1	2
## 2007-05-07	0	0	0	0
## 2007-05-08	0	0	0	0
## 2007-05-09	0	0	0	0
## 2007-05-22	3	3	3	4
## 2007-05-23	3	3	3	4
## 2007-05-30	2	2	2	3
## 2007-06-05	0	0	0	0
## 2007-06-07	1	2	1	2
## 2007-06-12	0	0	0	0
## 2007-06-14	1	1	1	2

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

## 2008-01-24	0	0	0	0
## 2008-02-05	3	3	3	3
## 2008-02-11	0	0	0	0
## 2008-02-20	1	1	1	2
## 2008-03-10	0	0	0	0
## 2008-03-12	0	0	0	0
## 2008-03-17	5	3	4	4
## 2008-03-24	5	4	4	4
## 2008-04-03	4	4	4	4
## 2008-04-07	4	4	4	4
## 2008-04-09	1	1	1	2
## 2008-04-10	1	1	1	2
## 2008-04-14	0	0	0	0
## 2008-04-30	1	1	1	2
## 2008-05-01	1	2	1	2
## 2008-05-06	0	0	0	0
## 2008-05-07	0	0	0	0
## 2008-05-12	0	0	0	0
## 2008-05-13	3	3	3	3
## 2008-05-14	3	3	3	3
## 2008-05-15	3	3	3	3
## 2008-05-16	3	3	3	3
## 2008-05-22	0	0	0	0
## 2008-05-28	1	2	1	2
## 2008-06-02	3	3	3	3
## 2008-06-05	3	4	3	3
## 2008-06-12	3	2	3	4
## 2008-06-13	3	4	3	3
## 2008-06-17	3	4	3	3
## 2008-06-18	1	1	1	2
## 2008-06-23	0	1	0	0
## 2008-06-24	1	1	1	2
## 2008-07-01	0	0	0	0
## 2008-07-03	3	4	3	3
## 2008-07-16	3	2	3	3
## 2008-07-21	2	2	2	3
## 2008-07-31	6	5	7	4
## 2008-08-07	4	4	4	4
## 2008-08-08	4	3	4	4
## 2008-08-11	4	4	4	4
## 2008-08-12	4	3	4	4
## 2008-08-13	0	0	0	0
## 2008-08-19	0	0	0	0
## 2008-08-21	1	2	1	2
## 2008-08-25	0	0	0	0
## 2008-08-29	3	4	3	3
## 2008-09-04	1	2	1	2
## 2008-09-08	0	0	0	0
## 2008-09-12	2	2	2	3
## 2008-09-15	1	1	1	2

## 2008-10-02	0	0	0	0
## 2008-10-10	2	2	2	3
## 2008-10-16	5	2	4	4
## 2008-10-17	5	3	4	4
## 2008-10-20	5	4	4	4
## 2008-10-22	5	4	4	4
## 2008-10-23	1	2	1	2
## 2008-10-30	3	4	3	3
## 2008-11-03	3	4	3	3
## 2008-11-05	0	0	0	0
## 2008-11-10	1	1	1	2
## 2008-11-11	1	1	1	2
## 2008-11-18	0	0	0	0
## 2008-11-21	5	5	4	4
## 2008-11-24	5	3	4	4
## 2008-11-25	5	4	4	4
## 2008-12-09	1	1	1	2
## 2008-12-15	2	2	2	3
## 2008-12-22	0	0	0	0
## 2008-12-24	1	1	1	2
## 2008-12-26	0	0	0	0
## 2008-12-29	3	2	3	3
## 2009-01-07	3	3	3	3
## 2009-01-08	3	3	3	3
## 2009-01-21	2	2	2	3
## 2009-01-22	2	2	2	3
## 2009-01-23	2	2	2	3
## 2009-01-30	2	2	2	3
## 2009-02-04	0	0	0	0
## 2009-02-05	1	1	1	2
## 2009-02-11	2	2	2	3
## 2009-02-18	0	0	0	0
## 2009-02-20	2	1	2	3
## 2009-02-24	2	2	2	3
## 2009-02-26	0	0	0	0
## 2009-03-02	0	0	0	0
## 2009-03-04	1	1	1	2
## 2009-03-10	4	3	4	3
## 2009-03-12	4	4	4	4
## 2009-03-17	2	3	2	3
## 2009-03-19	0	0	0	0
## 2009-03-31	5	4	4	4
## 2009-04-07	3	2	3	3
## 2009-04-09	3	4	3	3
## 2009-04-20	4	3	4	4
## 2009-04-21	4	4	4	3
## 2009-04-23	4	4	4	4
## 2009-04-30	4	3	4	4
## 2009-05-12	0	0	0	0
## 2009-05-20	0	0	0	0

## 2009-05-28	3	3	3	3
## 2009-05-29	3	4	3	3
## 2009-06-01	3	3	3	3
## 2009-06-02	3	3	3	3
## 2009-06-08	1	1	1	2
## 2009-06-11	2	2	2	3
## 2009-06-12	2	3	2	3
## 2009-06-16	2	3	2	3
## 2009-06-19	0	0	0	0
## 2009-06-22	0	0	0	0
## 2009-06-26	0	0	0	0
## 2009-06-29	1	1	1	2
## 2009-07-01	1	1	1	2
## 2009-07-02	1	1	1	2
## 2009-07-08	1	1	1	2
## 2009-07-09	1	1	1	2
## 2009-07-10	1	1	1	2
## 2009-07-17	1	1	1	2
## 2009-07-20	1	1	1	2
## 2009-07-24	6	3	7	4
## 2009-08-05	2	3	2	3
## 2009-08-07	1	1	1	2
## 2009-08-11	2	2	2	3
## 2009-08-19	5	4	4	4
## 2009-08-26	5	3	4	4
## 2009-09-01	9	2	9	4
## 2009-09-08	9	3	9	4
## 2009-09-10	9	4	9	4
## 2009-09-11	9	5	9	4
## 2009-09-14	9	4	9	4
## 2009-09-21	1	1	1	2
## 2009-09-25	2	2	2	3
## 2009-09-28	0	0	0	0
## 2009-10-02	3	4	3	3
## 2009-10-05	3	4	3	3
## 2009-10-08	3	3	3	3
## 2009-10-12	3	4	3	3
## 2009-10-15	2	2	2	3
## 2009-10-21	0	0	0	0
## 2009-10-28	1	1	1	2
## 2009-11-05	3	4	3	3
## 2009-11-06	3	3	3	3
## 2009-11-09	3	4	3	3
## 2009-11-11	1	1	1	2
## 2009-12-08	0	0	0	0
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## 2010-11-16	4
## 2010-11-22	4
## 2010-11-24	1
## 2010-11-29	0
## 2010-12-06	1
## 2010-12-10	1
## 2010-12-17	2
## 2010-12-21	2
## 2010-12-28	2
## 2011-01-04	4
## 2011-01-10	4
## 2011-01-24	4
## 2011-01-31	0
## 2011-02-22	0
## 2011-02-23	0
## 2011-02-28	2
## 2011-03-02	2
## 2011-03-11	2
## 2011-03-29	1
## 2011-03-30	1
## 2011-04-04	0
## 2011-04-06	0
## 2011-04-18	2
## 2011-04-21	2
## 2011-04-29	2
## 2011-05-05	3
## 2011-05-13	1
## 2011-05-17	0
## 2011-05-19	1
## 2011-05-25	0
## 2011-05-27	0
## 2011-06-01	1
## 2011-06-02	1
## 2011-06-03	0
## 2011-06-09	2
## 2011-06-14	1

## 2011-06-15	1
## 2011-06-17	3
## 2011-06-20	3
## 2011-06-23	1
## 2011-07-01	2
## 2011-07-07	1
## 2011-07-12	0
## 2011-07-13	0
## 2011-07-18	0
## 2011-07-19	0
## 2011-07-20	0
## 2011-07-28	1
## 2011-08-02	1
## 2011-08-05	0
## 2011-08-18	0
## 2011-08-22	1
## 2011-08-23	1
## 2011-08-25	2
## 2011-08-26	2
## 2011-08-30	1
## 2011-09-08	0
## 2011-09-13	4
## 2011-10-06	3
## 2011-10-07	4
## 2011-10-13	4
## 2011-10-17	1
## 2011-10-19	1
## 2011-10-28	3
## 2011-11-01	0
## 2011-11-10	1
## 2011-11-14	0
## 2011-11-16	0
## 2011-11-29	5
## 2011-12-09	2
## 2011-12-13	3
## 2011-12-15	3
## 2011-12-23	0
## 2011-12-28	1
## 2011-12-29	1
## 2012-01-17	3
## 2012-01-18	3
## 2012-01-19	3
## 2012-01-24	5
## 2012-01-31	3
## 2012-02-01	3
## 2012-02-08	0
## 2012-02-09	0
## 2012-02-10	1
## 2012-02-16	1
## 2012-03-01	1

## 2012-03-02	1
## 2012-03-12	3
## 2012-03-13	3
## 2012-03-16	2
## 2012-03-19	2
## 2012-03-23	2
## 2012-03-30	0
## 2012-04-05	0
## 2012-04-09	0
## 2012-04-10	2
## 2012-04-13	4
## 2012-04-17	4
## 2012-04-20	0
## 2012-04-23	4
## 2012-04-25	4
## 2012-04-27	4
## 2012-04-30	0
## 2012-05-04	1
## 2012-05-25	6
## 2012-06-05	2
## 2012-06-26	3
## 2012-06-27	3
## 2012-06-28	3
## 2012-07-19	0
## 2012-07-25	2
## 2012-07-27	2
## 2012-07-30	1
## 2012-07-31	1
## 2012-08-06	0
## 2012-08-07	1
## 2012-08-14	1
## 2012-08-17	4
## 2012-08-20	4
## 2012-08-23	1
## 2012-08-28	0
## 2012-08-29	0
## 2012-08-30	1
## 2012-09-10	0
## 2012-09-13	0
## 2012-09-27	4
## 2012-10-09	1
## 2012-10-12	5
## 2012-10-16	5
## 2012-10-31	2
## 2012-11-14	1
## 2012-11-16	2
## 2012-11-26	2
## 2012-11-30	0
## 2012-12-03	0
## 2012-12-05	4

## 2012-12-12	1
## 2012-12-17	3
## 2012-12-18	3
## 2012-12-21	0
## 2012-12-26	0
## 2012-12-31	2
## 2013-01-03	3
## 2013-01-04	3
## 2013-01-10	1
## 2013-01-11	0
## 2013-01-14	0
## 2013-01-22	2
## 2013-01-29	0
## 2013-02-05	3
## 2013-02-06	3
## 2013-02-21	2
## 2013-02-25	13
## 2013-02-26	13
## 2013-02-27	13
## 2013-03-04	13
## 2013-03-07	13
## 2013-03-08	13
## 2013-03-11	13
## 2013-03-12	13
## 2013-03-18	3
## 2013-04-09	2
## 2013-04-10	2
## 2013-04-16	2
## 2013-04-17	2
## 2013-04-19	0
## 2013-04-23	2
## 2013-04-24	2
## 2013-04-30	3
## 2013-05-09	3
## 2013-05-15	3
## 2013-05-20	0
## 2013-05-24	2
## 2013-05-30	0
## 2013-06-04	0
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## 2013-06-12	1
## 2013-06-14	2
## 2013-06-18	2
## 2013-06-20	0
## 2013-06-21	0
## 2013-06-25	1
## 2013-07-02	4
## 2013-07-10	5
## 2013-07-12	5
## 2013-07-16	5

## 2013-07-19	0
## 2013-07-23	4
## 2013-07-30	2
## 2013-08-07	1
## 2013-08-08	1
## 2013-08-21	3
## 2013-08-26	1
## 2013-08-29	5
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## 2013-09-17	3
## 2013-09-23	3
## 2013-10-03	4
## 2013-10-15	5
## 2013-10-22	5
## 2013-10-23	1
## 2013-10-25	0
## 2013-10-30	2
## 2013-10-31	2
## 2013-11-08	3
## 2013-11-14	3
## 2013-11-20	0
## 2013-11-22	1
## 2013-11-26	1
## 2013-11-29	0
## 2013-12-10	5
## 2013-12-19	1
## 2013-12-23	1
## 2014-01-06	4
## 2014-01-17	5
## 2014-01-21	5
## 2014-01-22	5
## 2014-01-23	5
## 2014-01-27	3
## 2014-01-30	3
## 2014-02-03	2
## 2014-02-11	0
## 2014-02-21	5
## 2014-02-25	5
## 2014-02-26	0
## 2014-03-03	4
## 2014-03-06	4
## 2014-03-07	4
## 2014-03-12	0
## 2014-03-18	0
## 2014-03-19	0
## 2014-03-24	2
## 2014-03-25	2
## 2014-03-28	2
## 2014-03-31	2

## 2014-04-01	2
## 2014-04-04	0
## 2014-04-07	2
## 2014-04-16	2
## 2014-04-22	4
## 2014-04-28	1
## 2014-05-01	8
## 2014-05-02	8
## 2014-05-06	8
## 2014-05-15	2
## 2014-05-16	2
## 2014-05-19	2
## 2014-05-20	10
## 2014-05-22	10
## 2014-06-02	10
## 2014-06-03	10
## 2014-06-09	1
## 2014-06-12	6
## 2014-06-13	6
## 2014-06-17	6
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## 2014-06-27	0
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## 2014-08-27	1
## 2014-08-29	1
## 2014-09-18	1
## 2014-09-24	1
## 2014-09-25	1
## 2014-09-26	1
## 2014-09-29	1
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## 2014-10-02	1
## 2014-10-07	0
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## 2014-10-30	4
## 2014-11-03	4
## 2014-11-13	1
## 2014-11-17	1
## 2014-11-19	1
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## 2014-12-02	3
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## 2014-12-11	2
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## 2014-12-18	4
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## 2015-01-06	0
## 2015-01-07	1
## 2015-01-08	1
## 2015-01-13	1
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## 2015-01-20	5
## 2015-01-23	5
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## 2015-01-30	0
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## 2015-02-03	1
## 2015-02-05	0
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## 2015-02-18	5
## 2015-02-23	5
## 2015-02-27	3
## 2015-03-03	3
## 2015-03-06	0
## 2015-03-09	0
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## 2015-03-11	8
## 2015-03-12	8
## 2015-03-16	8
## 2015-03-20	8
## 2015-03-23	0
## 2015-03-30	2
## 2015-04-06	0
## 2015-04-20	5
## 2015-04-23	5
## 2015-04-24	5
## 2015-05-01	1
## 2015-05-11	1
## 2015-05-14	1
## 2015-05-27	1
## 2015-06-01	2
## 2015-06-02	0
## 2015-06-10	2
## 2015-06-16	4
## 2015-06-22	4
## 2015-06-23	0
## 2015-06-24	0
## 2015-06-25	0
## 2015-06-29	1

## 2015-07-02	3
## 2015-07-08	3
## 2015-07-10	3
## 2015-07-14	0
## 2015-07-24	2
## 2015-07-28	2
## 2015-07-31	3
## 2015-08-07	2
## 2015-08-10	2
## 2015-08-17	3
## 2015-08-19	0
## 2015-08-24	0
## 2015-08-28	3
## 2015-09-02	3
## 2015-09-09	8
## 2015-09-15	8
## 2015-09-18	0
## 2015-09-22	1
## 2015-09-23	1
## 2015-09-24	0
## 2015-10-08	4
## 2015-10-12	4
## 2015-10-19	2
## 2015-10-28	0
## 2015-10-29	3
## 2015-11-06	0
## 2015-11-17	0
## 2015-11-18	1
## 2015-11-20	1
## 2015-11-23	1
## 2015-11-24	2
## 2015-11-27	2
## 2015-12-07	2
## 2015-12-11	0
## 2015-12-15	2
## 2015-12-16	2
## 2015-12-17	0
## 2015-12-21	4
## 2015-12-24	4
## 2015-12-30	0
## 2016-01-04	0
## 2016-01-05	1
## 2016-01-06	1
## 2016-01-11	2
## 2016-01-12	2
## 2016-01-13	1
## 2016-01-14	1
## 2016-01-15	4
## 2016-01-25	2
## 2016-01-29	2

## 2016-02-04	2
## 2016-02-10	2
## 2016-02-12	6
## 2016-02-18	6
## 2016-02-29	2
## 2016-03-08	1
## 2016-03-16	1
## 2016-03-28	3
## 2016-04-11	5
## 2016-04-14	5
## 2016-05-04	0
## 2016-05-19	0
## 2016-05-24	2
## 2016-05-31	3
## 2016-06-09	4
## 2016-06-14	1
## 2016-06-16	3
## 2016-06-17	3
## 2016-06-20	3
## 2016-06-22	1
## 2016-06-29	4
## 2016-07-06	4
## 2016-07-07	4
## 2016-07-08	4
## 2016-07-11	4
## 2016-07-20	0
## 2016-07-21	1
## 2016-07-28	1
## 2016-08-02	0
## 2016-08-05	2
## 2016-08-09	1
## 2016-08-12	2
## 2016-08-15	2
## 2016-08-18	1
## 2016-08-24	3
## 2016-08-26	0
## 2016-08-31	0
## 2016-09-01	4
## 2016-09-14	1
## 2016-09-23	2
## 2016-10-06	2
## 2016-10-14	0
## 2016-10-24	0
## 2016-10-25	0
## 2016-10-27	3
## 2016-11-01	0
## 2016-11-02	0
## 2016-11-03	4
## 2016-11-08	4
## 2016-11-11	3

## 2016-11-16	2
## 2016-11-18	2
## 2016-11-23	2
## 2016-11-25	2
## 2016-11-29	1
## 2016-12-01	1
## 2016-12-07	2
## 2016-12-09	1
## 2016-12-12	3
## 2016-12-30	0
## 2017-01-05	4
## 2017-01-12	0
## 2017-01-18	1
## 2017-01-19	1
## 2017-01-25	3
## 2017-01-26	3
## 2017-02-08	3
## 2017-02-14	1
## 2017-02-24	4
## 2017-02-27	4
## 2017-03-06	0
## 2017-03-08	1
## 2017-03-13	0
## 2017-03-15	2
## 2017-03-20	0
## 2017-03-22	4
## 2017-03-27	4
## 2017-03-28	4
## 2017-03-30	1
## 2017-04-03	1
## 2017-04-05	6
## 2017-04-06	6
## 2017-04-10	6
## 2017-04-25	2
## 2017-04-28	0
## 2017-05-08	4
## 2017-05-09	4
## 2017-05-11	0
## 2017-05-19	6
## 2017-05-24	6
## 2017-05-25	6
## 2017-06-01	4
## 2017-06-09	0
## 2017-06-12	0
## 2017-06-13	0
## 2017-06-14	0
## 2017-06-16	1
## 2017-06-20	2
## 2017-06-22	2
## 2017-06-29	7

## 2017-07-05	7
## 2017-07-06	7
## 2017-07-07	7
## 2017-07-12	3
## 2017-07-17	0
## 2017-07-18	0
## 2017-07-25	1
## 2017-08-01	1
## 2017-08-15	0
## 2017-08-16	0
## 2017-08-17	0
## 2017-08-18	1
## 2017-08-24	1
## 2017-08-31	2
## 2017-09-01	2
## 2017-09-07	0
## 2017-09-12	3
## 2017-09-27	1
## 2017-09-28	1
## 2017-10-04	3
## 2017-10-06	1
## 2017-10-11	0
## 2017-10-13	1
## 2017-10-24	1
## 2017-10-26	0
## 2017-11-17	3
## 2017-11-24	0
## 2017-11-28	3
## 2017-11-30	3
## 2017-12-11	4
## 2017-12-15	3
## 2017-12-22	1
## 2017-12-27	1
## 2018-01-04	1
## 2018-01-11	3
## 2018-01-22	2
## 2018-01-23	2
## 2018-01-24	0
## 2018-01-30	1
## 2018-02-01	0
## 2018-02-08	0
## 2018-02-09	4
## 2018-02-14	4
## 2018-02-15	4
## 2018-02-21	5
## 2018-02-22	5
## 2018-03-07	6
## 2018-03-12	6
## 2018-03-13	0
## 2018-03-20	1

## 2018-03-26	1
## 2018-03-27	0
## 2018-03-29	1
## 2018-04-05	3
## 2018-04-18	1
## 2018-04-20	0
## 2018-04-23	0
## 2018-04-30	1
## 2018-05-02	0
## 2018-05-03	1
## 2018-05-07	1
## 2018-05-08	1
## 2018-05-11	2
## 2018-05-16	2
## 2018-05-17	0
## 2018-05-23	2
## 2018-06-05	1
## 2018-06-06	1
## 2018-06-19	1
## 2018-06-21	0
## 2018-06-29	1
## 2018-07-05	3
## 2018-07-06	3
## 2018-07-17	5
## 2018-07-26	2
## 2018-07-27	0
## 2018-08-01	0
## 2018-08-02	1
## 2018-08-03	1
## 2018-08-09	0
## 2018-08-27	2
## 2018-08-30	2
## 2018-09-04	2
## 2018-09-07	2
## 2018-09-20	7
## 2018-10-01	0
## 2018-10-02	1
## 2018-10-04	0
## 2018-10-18	0
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## 2018-11-07	1
## 2018-11-13	3
## 2018-11-14	3
## 2018-11-15	0
## 2018-11-19	0
## 2018-12-03	0
## 2018-12-10	3
## 2018-12-13	0
## 2018-12-14	0
## 2018-12-24	1

## 2018-12-27	0
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## 2019-01-10	0
## 2019-01-25	3
## 2019-01-31	3
## 2019-02-05	3
## 2019-02-22	3
## 2019-02-25	3
## 2019-03-01	0
## 2019-03-04	0
## 2019-03-06	0
## 2019-03-07	0
## 2019-03-13	2
## 2019-03-14	2
## 2019-03-20	1
## 2019-03-21	1
## 2019-03-22	0
## 2019-03-26	1
## 2019-03-27	1
## 2019-03-29	6
## 2019-04-10	2
## 2019-04-15	2
## 2019-04-22	2
## 2019-04-24	2
## 2019-04-29	2
## 2019-05-06	0
## 2019-05-07	0
## 2019-05-08	2
## 2019-05-10	2
## 2019-05-16	1
## 2019-05-22	0
## 2019-06-10	0
## 2019-06-14	0
## 2019-06-19	1
## 2019-06-21	1
## 2019-06-26	4
## 2019-07-10	3
## 2019-07-11	3
## 2019-07-19	0
## 2019-07-23	2
## 2019-08-05	0
## 2019-08-06	2
## 2019-08-07	2
## 2019-08-14	0
## 2019-08-16	2
## 2019-08-23	0
## 2019-09-06	9
## 2019-09-19	0
## 2019-09-26	0
## 2019-09-30	0

## 2019-10-03	1
## 2019-10-07	6
## 2019-10-08	6
## 2019-10-09	6
## 2019-10-10	6
## 2019-10-21	2
## 2019-10-22	4
## 2019-10-25	4
## 2019-10-28	4
## 2019-10-31	3
## 2019-11-01	3
## 2019-11-06	0
## 2019-11-07	0
## 2019-11-08	0
## 2019-11-14	2
## 2019-11-15	2
## 2019-11-19	1
## 2019-12-02	0
## 2019-12-05	1
## 2019-12-09	0
## 2019-12-10	0
## 2019-12-12	1
## 2019-12-13	2
## 2019-12-16	2
## 2019-12-18	3
## 2019-12-24	1
## 2019-12-26	1
## 2019-12-27	0
## 2020-01-13	5
## 2020-01-22	2
## 2020-01-23	2
## 2020-01-27	1
## 2020-02-07	4
## 2020-02-13	0
## 2020-02-14	0
## 2020-02-18	0
## 2020-02-21	0
## 2020-02-24	0
## 2020-02-25	0
## 2020-02-27	0
## 2020-03-06	0
## 2020-03-09	1
## 2020-03-11	0
## 2020-03-12	1
## 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
## 2005-09-28	-7.0849992539479e-15	0.142857142857143		0
## 2005-10-07	1	1.14285714285714		1
## 2005-10-10	1	1.28571428571429		1
## 2005-10-14	1	1.28571428571429		1
## 2005-10-19	-7.19957427008922e-15	0		0
## 2005-10-21	2	2.85714285714286		2
## 2005-10-24	2	2.42857142857143		2
## 2005-10-28	15	5		14.4
## 2005-11-14	14.98	5.28571428571429		14.4
## 2005-11-16	1	1		1
## 2005-11-22	2	2		2
## 2005-11-23	1.996	2		2
## 2005-12-06	2	2.57142857142857		2
## 2005-12-12	-6.99884594723699e-15	0		0
## 2005-12-13	7.27106666666667	6.71428571428571	6.56198347107438	
## 2005-12-14	7.1047	5.42857142857143	6.56198347107438	
## 2005-12-16	7.1922	5.85714285714286	6.56198347107438	
## 2005-12-23	7.74033333333333	7.14285714285714	6.56198347107438	
## 2005-12-27	-7.58682006107847e-15	0		0
## 2005-12-29	-7.37365724035044e-15	0		0
## 2006-01-05	3	3.42857142857143		3
## 2006-01-06	-8.4829920865559e-15	0		0
## 2006-01-09	-7.00861590985369e-15	0		0
## 2006-01-19	-7.40651984187934e-15	0		0
## 2006-01-23	2	2.28571428571429		2
## 2006-01-24	2	2.71428571428571		2
## 2006-01-26	-7.41007255555814e-15	0		0
## 2006-01-27	3.994	3.28571428571429	4.37091988130564	
## 2006-02-01	4	4.28571428571429	4.37091988130564	
## 2006-02-03	-8.45190584186639e-15	0		0
## 2006-02-07	2	2.14285714285714		2
## 2006-02-10	3	2.71428571428571		3
## 2006-02-15	3	2.85714285714286		3
## 2006-03-03	-8.45901126922399e-15	0		0
## 2006-03-09	1	1		1
## 2006-03-20	7.74023333333333	5	6.56198347107438	
## 2006-03-24	1	1		1
## 2006-03-28	1	1		1
## 2006-03-29	1	1		1
## 2006-03-30	1	1		1
## 2006-04-10	-7.00683955301429e-15	0		0
## 2006-04-11	-7.58770823949817e-15	0		0
## 2006-04-12	1	1		1
## 2006-04-17	2	2.28571428571429		2
## 2006-04-18	1.996	2		2
## 2006-04-20	-7.43227701605065e-15	0		0
## 2006-04-27	4	4.14285714285714	4.37091988130564	
## 2006-05-02	5	3.85714285714286	4.37091988130564	
## 2006-05-05	5	5.42857142857143	4.37091988130564	

## 2006-05-12	1	1	1
## 2006-05-25	2	2.14285714285714	2
## 2006-05-31	1	1	1
## 2006-06-02	-8.4803275512968e-15	0	0
## 2006-06-05	4	3.28571428571429	4.37091988130564
## 2006-06-06	4	3.85714285714286	4.37091988130564
## 2006-06-08	4	4.28571428571429	4.37091988130564
## 2006-06-12	-6.97841784358388e-15	0	0
## 2006-06-19	5	3.71428571428571	4.37091988130564
## 2006-06-28	5	3.42857142857143	4.37091988130564
## 2006-06-30	5	4.71428571428571	4.37091988130564
## 2006-07-12	-7.0752292913312e-15	0	0
## 2006-07-13	-7.21467330322412e-15	0	0
## 2006-07-21	3	2.85714285714286	3
## 2006-07-24	3	3.71428571428571	3
## 2006-07-26	3	3.42857142857143	3
## 2006-07-27	1	1.42857142857143	1
## 2006-07-28	1	1	1
## 2006-08-01	2	1.85714285714286	2
## 2006-08-04	-8.45368219870579e-15	0	0
## 2006-08-09	-7.19513337799072e-15	0	0
## 2006-08-10	-7.42428341027335e-15	0	0
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## 2006-08-22	1	1	1
## 2006-08-25	3	2.85714285714286	3
## 2006-08-31	-7.40030259294144e-15	0	0
## 2006-09-08	2	2.14285714285714	2
## 2006-09-15	-8.47322212393919e-15	0	0
## 2006-09-18	2	2	2
## 2006-09-20	2	2.14285714285714	2
## 2006-09-22	3	3.14285714285714	3
## 2006-09-25	3	2.85714285714286	3
## 2006-09-26	3	3.28571428571429	3
## 2006-10-02	3	3.14285714285714	3
## 2006-10-12	1	1	1
## 2006-10-16	-7.01216862353249e-15	0	0
## 2006-10-17	5	4.28571428571429	4.37091988130564
## 2006-10-18	5	5.14285714285714	4.37091988130564
## 2006-10-27	1	1	1
## 2006-10-30	1	1	1
## 2006-11-06	2	2.42857142857143	2
## 2006-11-13	2	2.71428571428571	2
## 2006-11-17	3	3.14285714285714	3
## 2006-11-20	3	4	3
## 2006-11-27	-6.85052015114707e-15	0	0
## 2006-12-08	2	1.71428571428571	2
## 2006-12-14	-7.1267436396738e-15	0	0
## 2006-12-15	-8.43680680873149e-15	0	0
## 2006-12-27	2	2.28571428571429	2
## 2007-01-04	2	3	2

## 2007-01-08	-6.86828371954107e-15	0	0
## 2007-01-12	1	1.28571428571429	1
## 2007-01-16	1	1.57142857142857	1
## 2007-01-17	-6.79722944596506e-15	0	0
## 2007-01-22	-6.88071821741687e-15	0	0
## 2007-01-24	2	2.42857142857143	2
## 2007-01-31	2	1.85714285714286	2
## 2007-02-01	2	3	2
## 2007-02-05	1	1.14285714285714	1
## 2007-02-06	-7.32658378410633e-15	0	0
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## 2007-02-13	2	2.14285714285714	2
## 2007-02-20	-7.38253902454744e-15	0	0
## 2007-02-23	-8.46167580448309e-15	0	0
## 2007-03-01	-7.25819404578942e-15	0	0
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## 2007-03-20	3	3.28571428571429	3
## 2007-03-22	-7.33901828198213e-15	0	0
## 2007-03-23	-8.47499848077859e-15	0	0
## 2007-03-27	-7.40563166345964e-15	0	0
## 2007-03-28	-7.18536341537401e-15	0	0
## 2007-04-10	-7.53708206957526e-15	0	0
## 2007-04-18	4	3.71428571428571	4.37091988130564
## 2007-04-19	-7.39053263032474e-15	0	0
## 2007-04-24	-7.58682006107847e-15	0	0
## 2007-04-26	-7.34523553092004e-15	0	0
## 2007-04-27	-8.44657677134819e-15	0	0
## 2007-04-30	1	1	1
## 2007-05-03	1	1	1
## 2007-05-07	-7.02282676456889e-15	0	0
## 2007-05-08	-7.58682006107847e-15	0	0
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## 2007-05-23	3	3.42857142857143	3
## 2007-05-30	2	2	2
## 2007-06-05	-7.58504370423907e-15	0	0
## 2007-06-07	1	1.71428571428571	1
## 2007-06-12	-7.59126095317697e-15	0	0
## 2007-06-14	1	1	1
## 2007-06-15	-8.44924130660729e-15	0	0
## 2007-06-29	5	4.85714285714286	4.37091988130564
## 2007-07-02	5	6.14285714285714	4.37091988130564
## 2007-07-06	5	5.85714285714286	4.37091988130564
## 2007-07-11	2	2.14285714285714	2
## 2007-07-13	2	2.14285714285714	2
## 2007-07-31	-7.56994467110417e-15	0	0
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## 2007-08-09	-7.33813010356244e-15	0	0
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## 2007-09-04	4	4.14285714285714	4.37091988130564
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## 2007-09-17	2	1.85714285714286	2
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## 2007-10-24	3	3.57142857142857	3
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## 2007-11-15	-7.42517158869305e-15	0	0
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## 2007-11-23	2	2.57142857142857	2
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## 2007-12-14	-8.4892093354938e-15	0	0
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## 2008-02-11	-7.01216862353249e-15	0	0
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## 2008-03-12	-7.0681238639736e-15	0	0
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## 2008-05-15	3	3.42857142857143	3
## 2008-05-16	3	3.42857142857143	3
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## 2008-06-02	3	3.14285714285714	3
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## 2008-06-17	3	4.14285714285714	3
## 2008-06-18	1	1.42857142857143	1
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## 2008-07-21	2	1.85714285714286	2
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## 2008-08-12	4	3.14285714285714	4.37091988130564
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## 2008-08-25 -7.01305680195219e-15		0	0
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## 2008-09-04	1	2	1
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## 2008-09-12	2	2.42857142857143	2
## 2008-09-15	1	1	1
## 2008-10-02 -7.35322913669734e-15		0	0
## 2008-10-10	2	2	2
## 2008-10-16	5	2.14285714285714	4.37091988130564
## 2008-10-17	5	2.85714285714286	4.37091988130564
## 2008-10-20	5	4	4.37091988130564
## 2008-10-22	5	3.57142857142857	4.37091988130564
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## 2008-11-10	1	1	1

## 2008-11-11	1	1	1
## 2008-11-18	-7.55040474587076e-15	0	0
## 2008-11-21	5	4.57142857142857	4.37091988130564
## 2008-11-24	5	3	4.37091988130564
## 2008-11-25	5	4.14285714285714	4.37091988130564
## 2008-12-09	1	0.857142857142857	1
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## 2008-12-22	-7.01660951563099e-15	0	0
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## 2009-01-08	3	3.42857142857143	3
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## 2009-02-24	2	2.42857142857143	2
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## 2009-03-10	4	3.14285714285714	4.37091988130564
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## 2009-03-19	-6.96331881044898e-15	0.142857142857143	0
## 2009-03-31	4.996	4.14285714285714	4.37091988130564
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## 2009-06-01	3	3	3
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## 2009-06-16	1.99	2.57142857142857	2
## 2009-06-19	-8.39062153090708e-15	0	0
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## 2009-09-14	9	3.85714285714286	9
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## 2009-09-25	2	2.28571428571429	2
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## 2009-11-06	3	3.14285714285714	3
## 2009-11-09	3	3.57142857142857	3
## 2009-11-11	1	1	1
## 2009-12-08	-7.48645589965236e-15	0	0
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## 2010-02-16	3	3.28571428571429	3
## 2010-02-24	4	3.85714285714286	4.37091988130564
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## 2010-03-22	3	3	3
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## 2010-04-12	1	1	1
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## 2010-04-30	1	1	1
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## 2010-07-07	2	2.57142857142857	2
## 2010-07-08	2	2	2
## 2010-07-12	1	1	1
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## 2010-09-23	2	2.14285714285714	2
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## 2010-10-13	2	2	2
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## 2010-12-21	2	2.14285714285714	2
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## 2011-02-22	-7.57616192004207e-15	0	0
## 2011-02-23	-7.0832228971085e-15	0	0
## 2011-02-28	2	2	2
## 2011-03-02	2	2.28571428571429	2
## 2011-03-11	2	2	2
## 2011-03-29	1	1	1
## 2011-03-30	1	1	1
## 2011-04-04	-7.00950408827339e-15	0	0
## 2011-04-06	-7.18980430747251e-15	0	0
## 2011-04-18	2	2	2
## 2011-04-21	2	2	2
## 2011-04-29	2	2.14285714285714	2
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## 2011-05-17	-7.59747820211487e-15	0	0
## 2011-05-19	1	1.42857142857143	1
## 2011-05-25	-7.1249672828344e-15	0	0
## 2011-05-27	-8.4865448002347e-15	0	0
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## 2011-06-02	1	1	1
## 2011-06-03	-8.4812157297165e-15	0	0
## 2011-06-09	2	2.28571428571429	2
## 2011-06-14	1	1	1
## 2011-06-15	1	1	1
## 2011-06-17	3	3.42857142857143	3
## 2011-06-20	3	3	3

## 2011-06-23	1	1.14285714285714	1
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## 2011-07-07	1	1	1
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## 2011-07-13	-7.15782988436331e-15	0	0
## 2011-07-18	-7.00950408827339e-15	0	0
## 2011-07-19	-7.55839835164807e-15	0	0
## 2011-07-20	-7.0992101086631e-15	0	0
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## 2011-08-02	1	1.14285714285714	1
## 2011-08-05	-8.45901126922399e-15	0	0
## 2011-08-18	-7.18447523695431e-15	0	0
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## 2011-08-23	1	1	1
## 2011-08-25	2	2.28571428571429	2
## 2011-08-26	2	2.85714285714286	2
## 2011-08-30	1	1	1
## 2011-09-08	0.00399999999999276	0	0
## 2011-09-13	4	3.57142857142857	4.37091988130564
## 2011-10-06	3	3.57142857142857	3
## 2011-10-07	4	3	4.37091988130564
## 2011-10-13	4	3.85714285714286	4.37091988130564
## 2011-10-17	1	1	1
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## 2011-12-13	3	2.14285714285714	3
## 2011-12-15	3	3.42857142857143	3
## 2011-12-23	-8.45723491238459e-15	0	0
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## 2012-01-17	3	2.57142857142857	3
## 2012-01-18	3	3.42857142857143	3
## 2012-01-19	3	3.28571428571429	3
## 2012-01-24	5	3.71428571428571	4.37091988130564
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## 2012-02-01	3	3.57142857142857	3
## 2012-02-08	-7.19868609166952e-15	0	0
## 2012-02-09	-7.39852623610204e-15	0	0
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## 2012-02-16	1	1	1
## 2012-03-01	1	1	1
## 2012-03-02	1	1	1
## 2012-03-12	3	3.14285714285714	3
## 2012-03-13	3	3.28571428571429	3

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## 2012-03-19	2	2	2
## 2012-03-23	2	2.14285714285714	2
## 2012-03-30	-8.4838802649756e-15	0	0
## 2012-04-05	-7.39586170084294e-15	0	0
## 2012-04-09	-7.00950408827339e-15	0	0
## 2012-04-10	2	2.28571428571429	2
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## 2012-04-17	4	3.85714285714286	4.37091988130564
## 2012-04-20	-8.4705575886801e-15	0	0
## 2012-04-23	4	3.71428571428571	4.37091988130564
## 2012-04-25	4	4.14285714285714	4.37091988130564
## 2012-04-27	4	3.57142857142857	4.37091988130564
## 2012-04-30	-7.01483315879159e-15	0	0
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## 2012-06-05	2	2.42857142857143	2
## 2012-06-26	3	3.42857142857143	3
## 2012-06-27	3	3.14285714285714	3
## 2012-06-28	3	3.42857142857143	3
## 2012-07-19	-7.35056460143824e-15	0	0
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## 2012-07-27	2	2.14285714285714	2
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## 2012-07-31	1	1	1
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## 2012-11-26	2	2.14285714285714	2
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## 2013-01-29	-7.59925455895427e-15	0	0
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## 2013-02-27	13.004	4.42857142857143	14.4
## 2013-03-04	13.004	3.875	14.4
## 2013-03-07	13.004	5.57142857142857	14.4
## 2013-03-08	13.004	5.14285714285714	14.4
## 2013-03-11	13.004	3.85714285714286	14.4
## 2013-03-12	13.004	5.42857142857143	14.4
## 2013-03-18	3	3.42857142857143	3
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## 2013-04-16	2	2.57142857142857	2
## 2013-04-17	2	2.14285714285714	2
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## 2013-04-24	2	2.14285714285714	2
## 2013-04-30	3	3.28571428571429	3
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## 2013-07-10	5	4	4.37091988130564
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## 2013-07-16	5	4.85714285714286	4.37091988130564
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## 2013-09-17	3	3.42857142857143	3
## 2013-09-23	3	3.28571428571429	3
## 2013-10-03	4	4 4.37091988130564	
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## 2014-01-06	4	5 4.37091988130564	
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## 2014-01-22	5	5.14285714285714 4.37091988130564	
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## 2014-03-25	2	2	2
## 2014-03-28	2	2.28571428571429	2
## 2014-03-31	2	2.42857142857143	2
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## 2014-04-04 -8.4900975139135e-15	15	0	0
## 2014-04-07	2	2.42857142857143	2

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## 2014-06-09	1	1	1
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## 2014-07-21	-7.00683955301429e-15	0	0
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## 2014-08-04	-7.02371494298859e-15	0	0
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## 2014-11-13	1	1	1
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## 2015-08-17	3	2.85714285714286	3
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## 2015-09-24	-7.41717798291575e-15	0	0
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## 2015-12-11	-8.42081959717689e-15	0	0
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## 2016-01-25	2	2.14285714285714	2
## 2016-01-29	2	2.14285714285714	2
## 2016-02-04	2	2.14285714285714	2
## 2016-02-10	2	2	2
## 2016-02-12	6	5.28571428571429	6.56198347107438

## 2016-02-18	6	6.42857142857143	6.56198347107438
## 2016-02-29	2	2	2
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## 2016-03-16	1	1	1
## 2016-03-28	3	3	3
## 2016-04-11	5	5.28571428571429	4.37091988130564
## 2016-04-14	5	5.28571428571429	4.37091988130564
## 2016-05-04 -7.17825798801641e-15		0	0
## 2016-05-19 -7.43316519447035e-15		0	0
## 2016-05-24	2	2	2
## 2016-05-31	3	3.28571428571429	3
## 2016-06-09	4	4.85714285714286	4.37091988130564
## 2016-06-14	1	1.57142857142857	1
## 2016-06-16	3	2.57142857142857	3
## 2016-06-17	3	3.14285714285714	3
## 2016-06-20	3	3.28571428571429	3
## 2016-06-22	1	1	1
## 2016-06-29	4	5.28571428571429	4.37091988130564
## 2016-07-06	4	3.42857142857143	4.37091988130564
## 2016-07-07	4	6.71428571428571	4.37091988130564
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## 2016-07-20 -7.16671166856031e-15		0	0
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## 2016-08-15	2	2.42857142857143	2
## 2016-08-18	1	1	1
## 2016-08-24	3	3.42857142857143	3
## 2016-08-26 -8.4980911196908e-15		0	0
## 2016-08-31 -7.20579151902712e-15		0	0
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## 2016-10-06	2	2.14285714285714	2
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## 2016-10-24 -6.99262869829909e-15		0	0
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## 2016-11-01 -7.58326734739967e-15		0	0
## 2016-11-02 -7.16315895488151e-15		0	0
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## 2016-11-08	4	4.42857142857143	4.37091988130564
## 2016-11-11	3	3.28571428571429	3
## 2016-11-16	2	2.42857142857143	2
## 2016-11-18	2	2	2
## 2016-11-23	2	2	2

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## 2016-12-01	1	1	1
## 2016-12-07	2	2.71428571428571	2
## 2016-12-09	1	1.14285714285714	1
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## 2016-12-30	-8.47499848077859e-15	0	0
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## 2017-01-26	3	3.14285714285714	3
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## 2017-02-14	1	1	1
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## 2017-03-06	-7.01749769405069e-15	0	0
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## 2017-03-13	-7.01128044511279e-15	0	0
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## 2017-03-22	4	4.42857142857143 4.37091988130564	
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## 2017-04-06	6	6.42857142857143 6.56198347107438	
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## 2017-04-25	2	2.14285714285714	2
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## 2017-05-11	-7.39408534400354e-15	0	0
## 2017-05-19	6	4.57142857142857 6.56198347107438	
## 2017-05-24	6	4.14285714285714 6.56198347107438	
## 2017-05-25	6	4.57142857142857 6.56198347107438	
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## 2017-07-05	7.3015	5.42857142857143 6.56198347107438	
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## 2017-08-24	1	1	1
## 2017-08-31	2	2	2
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## 2017-09-07	-7.41540162607635e-15	0	0
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## 2017-09-28	1	1	1
## 2017-10-04	3	3.14285714285714	3
## 2017-10-06	1	1	1
## 2017-10-11	-7.03792579770379e-15	0	0
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## 2017-10-24	1	1	1
## 2017-10-26	-7.23421322845752e-15	0	0
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## 2017-11-28	3	3.14285714285714	3
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## 2018-01-23	2	2.14285714285714	2
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## 2018-02-14	4	3.57142857142857	4.37091988130564
## 2018-02-15	4	4.42857142857143	4.37091988130564
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## 2018-03-12	6	5.14285714285714	6.56198347107438
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## 2018-05-02 -7.19158066431191e-15		0	0
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## 2018-05-07	1	1	1
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## 2018-07-17	5	6.28571428571429	4.37091988130564
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## 2018-08-30	2	2	2
## 2018-09-04	2	2.28571428571429	2
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## 2018-12-03 -7.00950408827339e-15		0	0
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## 2019-04-29	2	2.28571428571429	2
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## 2019-10-21	2	2.57142857142857	2
## 2019-10-22	4		3 4.37091988130564
## 2019-10-25	4	5.42857142857143	4.37091988130564
## 2019-10-28	4	4.42857142857143	4.37091988130564
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## 2019-12-16	2	2.57142857142857	2
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## 2020-01-22	2	2	2
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## 2005-10-28	4.05917592165138	15
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## 2005-11-16	2.11373622465478	1
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## 2005-11-23	3.02467378642584	2
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## 2005-12-12	-0.62117362204446	0
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## 2005-12-16	4.10803277412871	8
## 2005-12-23	4.09136620409658	8
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## 2006-01-06	-0.516561098925044	0
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## 2006-02-15	3.53564548624552	3
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## 2006-03-24	2.10655807772416	1
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## 2006-04-18	2.94727679627975	2
## 2006-04-20	-0.495949187172136	0
## 2006-04-27	3.8738057642501	4
## 2006-05-02	3.97826255780983	5
## 2006-05-05	3.9867624363669	5
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## 2006-05-25	3.0329016388624	2
## 2006-05-31	2.27282551384412	1
## 2006-06-02	-0.482775537232035	0
## 2006-06-05	3.61338071674864	4
## 2006-06-06	3.83288871709204	4
## 2006-06-08	3.83125775436168	4
## 2006-06-12	-0.775254175647508	0

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## 2006-06-30	4.09366594898523	5
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## 2006-07-27	1.99111913610638	1
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## 2006-08-01	2.84723078562753	2
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## 2006-09-20	3.08481457698698	2
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## 2006-09-25	3.48835545831082	3
## 2006-09-26	3.48162862817552	3
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##	2017-10-26	-0.575625589052034	0
##	2017-11-17	3.50488134513306	3
##	2017-11-24	-0.459085536487597	0
##	2017-11-28	3.51058178887362	3
##	2017-11-30	3.60659381017825	3
##	2017-12-11	3.71515155797167	4
##	2017-12-15	3.57752447090806	3
##	2017-12-22	2.15589440401854	1
##	2017-12-27	2.15676037090694	1
##	2018-01-04	2.19557790274852	1
##	2018-01-11	3.70490977541244	3
##	2018-01-22	2.94490478047052	2
##	2018-01-23	3.01428896567834	2
##	2018-01-24	-0.621373175115122	0
##	2018-01-30	2.10391375178803	1
##	2018-02-01	-0.452569776756184	0
##	2018-02-08	-0.597492027505948	0
##	2018-02-09	3.79647011818118	4
##	2018-02-14	3.8436909013331	4
##	2018-02-15	3.86215530082909	4
##	2018-02-21	4.04408821920013	5
##	2018-02-22	3.99209390003518	5
##	2018-03-07	4.09608548778699	6
##	2018-03-12	3.96381495074081	6
##	2018-03-13	-0.504418147367407	0
##	2018-03-20	2.15640502096845	1
##	2018-03-26	2.09314572200864	1
##	2018-03-27	-0.557832764913874	0
##	2018-03-29	2.2359676732731	1
##	2018-04-05	3.55001690931283	3
##	2018-04-18	2.27309943195557	1
##	2018-04-20	-0.464281640633686	0
##	2018-04-23	-0.582863223793536	0
##	2018-04-30	1.99609199827852	1
##	2018-05-02	-0.514186461274686	0
##	2018-05-03	2.13942583727966	1
##	2018-05-07	1.99732239195434	1

## 2018-05-08	2.10865392844822	1
## 2018-05-11	3.04295533274858	2
## 2018-05-16	3.07877659178854	2
## 2018-05-17	-0.480363542742714	0
## 2018-05-23	3.02675957066165	2
## 2018-06-05	2.04872208857715	1
## 2018-06-06	2.15791784742826	1
## 2018-06-19	2.02917367364661	1
## 2018-06-21	-0.491699060844324	0
## 2018-06-29	2.11219545518259	1
## 2018-07-05	3.51379146831917	3
## 2018-07-06	3.49745541577292	3
## 2018-07-17	3.87119299418522	5
## 2018-07-26	3.10408512726964	2
## 2018-07-27	-0.496134307045171	0
## 2018-08-01	-0.537116299238828	0
## 2018-08-02	2.12359862996007	1
## 2018-08-03	2.14808793332312	1
## 2018-08-09	-0.497118268934579	0
## 2018-08-27	2.92098963552263	2
## 2018-08-30	3.01350537510121	2
## 2018-09-04	2.96559563011346	2
## 2018-09-07	3.00012662471189	2
## 2018-09-20	4.08651715359804	7
## 2018-10-01	-0.683987659364181	0
## 2018-10-02	2.01326980152515	1
## 2018-10-04	-0.517378594449474	0
## 2018-10-18	-0.558137547258067	0
## 2018-10-23	2.93567667966497	2
## 2018-11-07	2.21680309780078	1
## 2018-11-13	3.4763711022975	3
## 2018-11-14	3.52366479967446	3
## 2018-11-15	-0.489267036392617	0
## 2018-11-19	-0.652854676900591	0
## 2018-12-03	-0.623372188365187	0
## 2018-12-10	3.37353646669834	3
## 2018-12-13	-0.57487156063844	0
## 2018-12-14	-0.503759791731239	0
## 2018-12-24	1.93805800800349	1
## 2018-12-27	-0.503201441782606	0
## 2019-01-04	3.0617103761884	2
## 2019-01-10	-0.552349728488403	0
## 2019-01-25	3.54088178044065	3
## 2019-01-31	3.46971871604707	3
## 2019-02-05	3.43813388698231	3
## 2019-02-22	3.5078240027913	3
## 2019-02-25	3.38646675060758	3
## 2019-03-01	-0.53989327429441	0
## 2019-03-04	-0.656913174295736	0
## 2019-03-06	-0.505508024569749	0

## 2019-03-07	-0.515133338046555	0
## 2019-03-13	3.03555533564597	2
## 2019-03-14	3.0059227327233	2
## 2019-03-20	2.09212189296683	1
## 2019-03-21	2.13419313877533	1
## 2019-03-22	-0.543303668400709	0
## 2019-03-26	2.04248003253954	1
## 2019-03-27	2.14702911403191	1
## 2019-03-29	4.01906866811216	6
## 2019-04-10	3.03536717359043	2
## 2019-04-15	2.82853151656519	2
## 2019-04-22	2.83022146101926	2
## 2019-04-24	3.0055363499209	2
## 2019-04-29	2.90082338911723	2
## 2019-05-06	-0.614774384627244	0
## 2019-05-07	-0.592688446758723	0
## 2019-05-08	2.99695322932844	2
## 2019-05-10	2.99108041863816	2
## 2019-05-16	2.12360559677902	1
## 2019-05-22	-0.550231037292765	0
## 2019-06-10	-0.631318364911981	0
## 2019-06-14	-0.518434979756542	0
## 2019-06-19	2.15400193607417	1
## 2019-06-21	2.08030713614839	1
## 2019-06-26	3.78271370466944	4
## 2019-07-10	3.51720945305544	3
## 2019-07-11	3.49161470256256	3
## 2019-07-19	-0.528403832990493	0
## 2019-07-23	2.96590537433786	2
## 2019-08-05	-0.667063728718913	0
## 2019-08-06	2.90815128061937	2
## 2019-08-07	2.99880549865512	2
## 2019-08-14	-0.555830842651638	0
## 2019-08-16	2.97739488414299	2
## 2019-08-23	-0.560701558322735	0
## 2019-09-06	4.03331812992792	9
## 2019-09-19	-0.515059962819645	0
## 2019-09-26	-0.51606121718681	0
## 2019-09-30	-0.637495802798178	0
## 2019-10-03	2.09271486394181	1
## 2019-10-07	3.8483515865897	6
## 2019-10-08	3.92416747853261	6
## 2019-10-09	4.01325315901824	6
## 2019-10-10	3.98459693320932	6
## 2019-10-21	2.86991787861484	2
## 2019-10-22	3.67806962903195	4
## 2019-10-25	3.81346716630849	4
## 2019-10-28	3.6608372391202	4
## 2019-10-31	3.46980641243819	3
## 2019-11-01	3.49011629895597	3

```
## 2019-11-06 -0.499601685938776      0
## 2019-11-07 -0.498939899570333      0
## 2019-11-08 -0.511808168981038      0
## 2019-11-14  2.9880368196002        2
## 2019-11-15  2.97750516102424        2
## 2019-11-19  2.06567417218433        1
## 2019-12-02 -0.657714468859713      0
## 2019-12-05  2.09680464957578        1
## 2019-12-09 -0.643263572053243      0
## 2019-12-10 -0.593436359678748      0
## 2019-12-12  2.1333697675212        1
## 2019-12-13  2.96128827068971        2
## 2019-12-16  2.86885035736504        2
## 2019-12-18  3.46771279080686        3
## 2019-12-24  2.03480151727259        1
## 2019-12-26  2.12782557180804        1
## 2019-12-27 -0.561387160808827      0
## 2020-01-13  3.77917612760119        5
## 2020-01-22  2.98912846910066        2
## 2020-01-23  3.03686882695058        2
## 2020-01-27  1.91471690880944        1
## 2020-02-07  3.75303066208382        4
## 2020-02-13 -0.513667948306208      0
## 2020-02-14 -0.546345408504741      0
## 2020-02-18 -0.592840407011948      0
## 2020-02-21 -0.541111639610385      0
## 2020-02-24 -0.727034990314399      0
## 2020-02-25 -0.66354204328549      0
## 2020-02-27 -0.571966805408699      0
## 2020-03-06 -0.550924710832838      0
## 2020-03-09  1.9284347202075        1
## 2020-03-11 -0.542236314808473      0
## 2020-03-12  2.03902518059881      1
## 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_1$Date <- row.names(sAAL_1)
testingSet$Date <- row.names(testingSet)
Results_round$Date <- row.names(Results_round)

AAL_1 <- merge(testingSet, Results_round, by.x='Date', by.y='Date')
tbl <- rbind(head(AAL_1), tail(AAL_1))
tbl
```

##	Date	DayOfWeek	stockDayValue	lag1	today2lag1	incrDaysThisCycle
## 1	2005-09-28	Wednesday	20.50	19.30	1.0621762	0
## 2	2005-10-07	Friday	22.15	22.58	0.9809566	1
## 3	2005-10-10	Monday	22.21	22.15	1.0027088	1
## 4	2005-10-14	Friday	22.27	21.71	1.0257946	1
## 5	2005-10-19	Wednesday	21.38	21.49	0.9948813	0
## 6	2005-10-21	Friday	21.96	21.02	1.0447193	2
## 1085	2020-02-25	Tuesday	23.12	25.45	0.9084479	0
## 1086	2020-02-27	Thursday	20.60	22.31	0.9233528	0
## 1087	2020-03-06	Friday	15.97	16.04	0.9956358	0
## 1088	2020-03-09	Monday	14.75	15.97	0.9236068	1
## 1089	2020-03-11	Wednesday	16.26	17.00	0.9564706	0
## 1090	2020-03-12	Thursday	13.45	16.26	0.8271833	1

##	nTimesIncrDayCountsOccurs	RandomForest_round	KNN_round	Rpart_round
## 1	955	0	0	0
## 2	408	1	1	1
## 3	408	1	1	1
## 4	408	1	1	1
## 5	955	0	0	0
## 6	224	2	3	2
## 1085	955	0	0	0
## 1086	955	0	0	0
## 1087	955	0	0	0
## 1088	408	1	2	1
## 1089	955	0	0	0
## 1090	408	1	1	1

##	GLM_round	IncreasingDaysThisCycle
## 1	0	0
## 2	2	1
## 3	2	1
## 4	2	1
## 5	0	0
## 6	3	2
## 1085	0	0
## 1086	0	0
## 1087	0	0
## 1088	2	1
## 1089	0	0
## 1090	2	1

```

Results_round$RandomForest_round <-
  as.numeric(paste(Results_round$RandomForest_round))
Results_round$KNN_round <-
  as.numeric(paste(Results_round$KNN_round))
Results_round$Rpart_round <-
  as.numeric(paste(Results_round$Rpart_round))
Results_round$GLM_round <-
  as.numeric(paste(Results_round$GLM_round))
Results_round$IncreasingDaysThisCycle <-
  as.numeric(paste(Results_round$IncreasingDaysThisCycle))

```

```

Results_round$mostVoted <- ifelse(

(Results_round$RandomForest_round==Results_round$KNN_round |
Results_round$RandomForest_round==Results_round$Rpart_round |
Results_round$RandomForest_round==Results_round$GLM_round),

ifelse(Results_round$KNN_round==Results_round$Rpart_round |
Results_round$KNN_round==Results_round$GLM_round,
      Results_round$RandomForest_round,
      ifelse(Results_round$Rpart_round ==Results_round$GLM_round,
              Results_round$Rpart_round,
              Results_round$RandomForest_round)),

ifelse(Results_round$KNN_round==Results_round$Rpart_round |
Results_round$KNN_round==Results_round$GLM_round,
      Results_round$KNN_round,
      ifelse(Results_round$Rpart_round==Results_round$GLM_round,
              Results_round$Rpart_round,
              Results_round$RandomForest_round)),

ifelse(Results_round$Rpart_round>Results_round$RandomForest_round,
      Results_round$Rpart_round,
      Results_round$RandomForest_round))

)
)

sMost <- sum(Results_round$mostVoted==Results_round$IncreasingDaysThisCycle)
lMost <- length(Results_round$IncreasingDaysThisCycle)-1
accMost <- sMost/lMost

```

Lets run these rounded models on the training set too, to then combine the predicted results of the training and testing models.

```

predRF_round1 <- predict(rfMod, trainingSet)

predRF_round1 <- ifelse(predRF_round1<0,0,round(predRF,0))

predDF_round1 <- data.frame(predRF_round1,
IncreasingDaysThisCycle=trainingSet$incrDaysThisCycle)
predDF_round1

##          predRF_round1 IncreasingDaysThisCycle
## 2005-09-29             0                      5
## 2005-09-30             1                      5
## 2005-10-03             1                      5
## 2005-10-04             1                      5

```

## 2005-10-05	0	5
## 2005-10-06	2	5
## 2005-10-11	0	0
## 2005-10-12	0	0
## 2005-10-13	15	1
## 2005-10-17	0	0
## 2005-10-18	0	0
## 2005-10-20	2	2
## 2005-10-25	2	15
## 2005-10-26	0	15
## 2005-10-27	7	15
## 2005-10-31	7	15
## 2005-11-01	7	15
## 2005-11-02	8	15
## 2005-11-03	0	15
## 2005-11-04	0	15
## 2005-11-07	3	15
## 2005-11-08	0	15
## 2005-11-09	0	15
## 2005-11-10	0	15
## 2005-11-11	2	15
## 2005-11-15	2	15
## 2005-11-17	0	1
## 2005-11-18	0	0
## 2005-11-21	4	2
## 2005-11-25	0	1
## 2005-11-28	2	1
## 2005-11-29	3	2
## 2005-11-30	3	2
## 2005-12-01	0	2
## 2005-12-02	0	0
## 2005-12-05	8	2
## 2005-12-07	1	2
## 2005-12-08	1	1
## 2005-12-09	1	1
## 2005-12-15	1	8
## 2005-12-19	0	8
## 2005-12-20	0	8
## 2005-12-21	1	8
## 2005-12-22	2	8
## 2005-12-28	0	0
## 2005-12-30	0	3
## 2006-01-03	4	3
## 2006-01-04	5	3
## 2006-01-10	0	0
## 2006-01-11	1	1
## 2006-01-12	2	1
## 2006-01-13	0	0
## 2006-01-17	0	1
## 2006-01-18	4	1

## 2006-01-20	4	2
## 2006-01-25	0	0
## 2006-01-30	0	4
## 2006-01-31	5	4
## 2006-02-02	5	4
## 2006-02-06	0	0
## 2006-02-08	0	2
## 2006-02-09	0	2
## 2006-02-13	3	3
## 2006-02-14	3	3
## 2006-02-16	0	0
## 2006-02-17	0	0
## 2006-02-21	1	2
## 2006-02-22	2	2
## 2006-02-23	0	2
## 2006-02-24	0	0
## 2006-02-27	0	0
## 2006-02-28	0	0
## 2006-03-01	1	1
## 2006-03-02	3	1
## 2006-03-06	0	2
## 2006-03-07	2	2
## 2006-03-08	0	2
## 2006-03-10	2	1
## 2006-03-13	2	7
## 2006-03-14	3	7
## 2006-03-15	3	7
## 2006-03-16	3	7
## 2006-03-17	3	7
## 2006-03-21	1	7
## 2006-03-22	0	7
## 2006-03-23	0	0
## 2006-03-27	5	1
## 2006-03-31	1	1
## 2006-04-03	0	0
## 2006-04-04	0	0
## 2006-04-05	2	1
## 2006-04-06	3	1
## 2006-04-07	0	0
## 2006-04-13	0	1
## 2006-04-19	2	2
## 2006-04-21	0	4
## 2006-04-24	0	4
## 2006-04-25	2	4
## 2006-04-26	2	4
## 2006-04-28	0	5
## 2006-05-01	1	5
## 2006-05-03	1	5
## 2006-05-04	0	5
## 2006-05-08	0	1

## 2006-05-09	2	1
## 2006-05-10	0	0
## 2006-05-11	0	0
## 2006-05-15	1	1
## 2006-05-16	0	0
## 2006-05-17	1	2
## 2006-05-18	2	2
## 2006-05-19	0	2
## 2006-05-22	0	0
## 2006-05-23	0	0
## 2006-05-24	1	2
## 2006-05-26	3	2
## 2006-05-30	0	1
## 2006-06-01	0	0
## 2006-06-07	0	4
## 2006-06-09	0	4
## 2006-06-13	0	2
## 2006-06-14	4	2
## 2006-06-15	0	2
## 2006-06-16	0	5
## 2006-06-20	0	5
## 2006-06-21	0	5
## 2006-06-22	1	5
## 2006-06-23	1	5
## 2006-06-26	0	0
## 2006-06-27	0	0
## 2006-06-29	0	5
## 2006-07-03	3	5
## 2006-07-05	3	5
## 2006-07-06	2	5
## 2006-07-07	0	1
## 2006-07-10	1	1
## 2006-07-11	0	0
## 2006-07-14	1	3
## 2006-07-17	0	3
## 2006-07-18	5	3
## 2006-07-19	5	3
## 2006-07-20	0	0
## 2006-07-25	2	3
## 2006-07-31	0	0
## 2006-08-02	0	2
## 2006-08-03	2	2
## 2006-08-07	0	0
## 2006-08-08	0	0
## 2006-08-11	0	3
## 2006-08-14	3	3
## 2006-08-15	3	3
## 2006-08-16	1	3
## 2006-08-17	0	0
## 2006-08-18	0	0

## 2006-08-23	0	0
## 2006-08-24	0	0
## 2006-08-28	2	3
## 2006-08-29	2	3
## 2006-08-30	0	3
## 2006-09-01	0	1
## 2006-09-05	7	1
## 2006-09-06	7	2
## 2006-09-07	1	2
## 2006-09-11	2	3
## 2006-09-12	3	3
## 2006-09-13	3	3
## 2006-09-14	0	3
## 2006-09-19	1	2
## 2006-09-21	0	3
## 2006-09-27	0	0
## 2006-09-28	0	3
## 2006-09-29	0	3
## 2006-10-03	0	3
## 2006-10-04	2	1
## 2006-10-05	2	1
## 2006-10-06	0	0
## 2006-10-09	1	1
## 2006-10-10	2	1
## 2006-10-11	0	1
## 2006-10-13	0	0
## 2006-10-19	1	5
## 2006-10-20	0	5
## 2006-10-23	0	5
## 2006-10-24	0	5
## 2006-10-25	1	1
## 2006-10-26	3	1
## 2006-10-31	0	0
## 2006-11-01	0	0
## 2006-11-02	0	0
## 2006-11-03	3	2
## 2006-11-07	0	2
## 2006-11-08	0	0
## 2006-11-09	0	2
## 2006-11-10	0	2
## 2006-11-14	5	2
## 2006-11-15	5	2
## 2006-11-16	4	2
## 2006-11-21	4	3
## 2006-11-22	1	3
## 2006-11-24	0	0
## 2006-11-28	0	0
## 2006-11-29	0	0
## 2006-11-30	0	0
## 2006-12-01	0	1

## 2006-12-04	0	1
## 2006-12-05	0	1
## 2006-12-06	3	1
## 2006-12-07	3	2
## 2006-12-11	3	2
## 2006-12-12	0	0
## 2006-12-13	0	0
## 2006-12-18	1	1
## 2006-12-19	3	1
## 2006-12-20	0	0
## 2006-12-21	0	0
## 2006-12-22	3	2
## 2006-12-26	3	2
## 2006-12-28	0	0
## 2006-12-29	0	2
## 2007-01-03	1	2
## 2007-01-05	0	0
## 2007-01-09	3	2
## 2007-01-10	3	2
## 2007-01-11	2	2
## 2007-01-18	6	1
## 2007-01-19	4	1
## 2007-01-23	4	2
## 2007-01-25	4	2
## 2007-01-26	4	1
## 2007-01-29	0	1
## 2007-01-30	0	2
## 2007-02-02	1	1
## 2007-02-07	0	1
## 2007-02-09	3	2
## 2007-02-12	1	2
## 2007-02-14	0	0
## 2007-02-15	0	0
## 2007-02-16	0	0
## 2007-02-21	0	0
## 2007-02-22	0	0
## 2007-02-26	0	0
## 2007-02-27	5	1
## 2007-02-28	5	1
## 2007-03-02	0	0
## 2007-03-05	1	1
## 2007-03-06	3	1
## 2007-03-07	0	0
## 2007-03-08	0	0
## 2007-03-09	1	1
## 2007-03-12	1	1
## 2007-03-13	0	0
## 2007-03-15	5	1
## 2007-03-16	5	3
## 2007-03-19	5	3

## 2007-03-21	1	3
## 2007-03-26	0	0
## 2007-03-29	0	0
## 2007-03-30	0	0
## 2007-04-02	0	1
## 2007-04-03	3	1
## 2007-04-04	3	2
## 2007-04-05	3	2
## 2007-04-09	2	2
## 2007-04-11	0	0
## 2007-04-12	2	4
## 2007-04-13	2	4
## 2007-04-16	0	4
## 2007-04-17	1	4
## 2007-04-20	0	0
## 2007-04-23	0	0
## 2007-04-25	0	0
## 2007-05-01	2	1
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## 2018-10-31	0	6
## 2018-11-01	3	6
## 2018-11-02	0	0
## 2018-11-05	0	0
## 2018-11-06	0	1
## 2018-11-08	0	0
## 2018-11-09	0	3
## 2018-11-12	1	3
## 2018-11-16	0	0
## 2018-11-20	5	5
## 2018-11-21	5	5
## 2018-11-23	5	5
## 2018-11-26	2	5
## 2018-11-27	2	5
## 2018-11-28	0	5
## 2018-11-29	2	1
## 2018-11-30	0	1
## 2018-12-04	1	1
## 2018-12-06	0	1
## 2018-12-07	3	3
## 2018-12-11	3	3
## 2018-12-12	1	3
## 2018-12-17	4	1
## 2018-12-18	4	1
## 2018-12-19	0	0
## 2018-12-20	0	0
## 2018-12-21	0	0
## 2018-12-26	2	1
## 2018-12-28	0	2
## 2018-12-31	0	2
## 2019-01-02	7	2
## 2019-01-03	7	2
## 2019-01-07	1	2
## 2019-01-08	2	1
## 2019-01-09	3	1
## 2019-01-11	0	0
## 2019-01-14	0	4
## 2019-01-15	1	4
## 2019-01-16	0	4
## 2019-01-17	3	4
## 2019-01-18	0	4
## 2019-01-22	0	0
## 2019-01-23	0	3
## 2019-01-24	2	3

## 2019-01-28	2	3
## 2019-01-29	1	1
## 2019-01-30	1	1
## 2019-02-01	2	3
## 2019-02-04	0	3
## 2019-02-06	0	0
## 2019-02-07	0	0
## 2019-02-08	0	1
## 2019-02-11	0	1
## 2019-02-12	0	1
## 2019-02-13	1	1
## 2019-02-14	0	0
## 2019-02-15	1	1
## 2019-02-19	1	1
## 2019-02-20	0	0
## 2019-02-21	3	3
## 2019-02-26	0	3
## 2019-02-27	0	0
## 2019-02-28	0	0
## 2019-03-05	0	0
## 2019-03-08	5	1
## 2019-03-11	5	1
## 2019-03-12	4	2
## 2019-03-15	0	0
## 2019-03-18	1	1
## 2019-03-19	1	1
## 2019-03-25	0	0
## 2019-03-28	1	6
## 2019-04-01	1	6
## 2019-04-02	0	6
## 2019-04-03	0	6
## 2019-04-04	0	6
## 2019-04-05	3	6
## 2019-04-08	0	0
## 2019-04-09	3	2
## 2019-04-11	3	2
## 2019-04-12	0	0
## 2019-04-16	1	2
## 2019-04-17	3	2
## 2019-04-18	0	0
## 2019-04-23	3	2
## 2019-04-25	0	0
## 2019-04-26	3	2
## 2019-04-30	1	2
## 2019-05-01	0	2
## 2019-05-02	1	2
## 2019-05-03	0	2
## 2019-05-09	3	2
## 2019-05-13	3	1
## 2019-05-14	2	1

## 2019-05-15	6	1
## 2019-05-17	0	0
## 2019-05-20	4	1
## 2019-05-21	4	1
## 2019-05-23	0	0
## 2019-05-24	0	0
## 2019-05-28	0	0
## 2019-05-29	0	0
## 2019-05-30	0	0
## 2019-05-31	0	0
## 2019-06-03	1	4
## 2019-06-04	0	4
## 2019-06-05	2	4
## 2019-06-06	1	4
## 2019-06-07	0	4
## 2019-06-11	2	2
## 2019-06-12	5	2
## 2019-06-13	5	2
## 2019-06-17	0	0
## 2019-06-18	5	1
## 2019-06-20	0	0
## 2019-06-24	3	1
## 2019-06-25	3	4
## 2019-06-27	0	4
## 2019-06-28	1	4
## 2019-07-01	1	4
## 2019-07-02	0	1
## 2019-07-03	5	1
## 2019-07-05	5	1
## 2019-07-08	5	1
## 2019-07-09	1	3
## 2019-07-12	2	3
## 2019-07-15	0	1
## 2019-07-16	1	1
## 2019-07-17	0	1
## 2019-07-18	3	1
## 2019-07-22	3	2
## 2019-07-24	3	2
## 2019-07-25	0	0
## 2019-07-26	0	0
## 2019-07-29	0	0
## 2019-07-30	0	0
## 2019-07-31	0	0
## 2019-08-01	0	0
## 2019-08-02	0	0
## 2019-08-08	0	2
## 2019-08-09	0	0
## 2019-08-12	0	0
## 2019-08-13	0	0
## 2019-08-15	0	2

## 2019-08-19	1	2
## 2019-08-20	4	2
## 2019-08-21	4	2
## 2019-08-22	2	2
## 2019-08-26	0	0
## 2019-08-27	5	2
## 2019-08-28	3	2
## 2019-08-29	3	2
## 2019-08-30	4	9
## 2019-09-03	4	9
## 2019-09-04	4	9
## 2019-09-05	4	9
## 2019-09-09	0	9
## 2019-09-10	0	9
## 2019-09-11	3	9
## 2019-09-12	3	9
## 2019-09-13	3	9
## 2019-09-16	3	1
## 2019-09-17	1	1
## 2019-09-18	0	0
## 2019-09-20	0	0
## 2019-09-23	0	0
## 2019-09-24	0	1
## 2019-09-25	0	1
## 2019-09-27	0	0
## 2019-10-01	0	0
## 2019-10-02	0	0
## 2019-10-04	1	1
## 2019-10-11	1	6
## 2019-10-14	1	6
## 2019-10-15	1	6
## 2019-10-16	0	0
## 2019-10-17	1	2
## 2019-10-18	6	2
## 2019-10-23	2	4
## 2019-10-24	1	4
## 2019-10-29	0	0
## 2019-10-30	0	0
## 2019-11-04	5	3
## 2019-11-05	9	3
## 2019-11-11	0	0
## 2019-11-12	0	0
## 2019-11-13	9	2
## 2019-11-18	9	1
## 2019-11-20	0	0
## 2019-11-21	2	3
## 2019-11-22	0	3
## 2019-11-25	3	3
## 2019-11-26	3	3
## 2019-11-27	0	0

## 2019-11-29	0	0
## 2019-12-03	2	1
## 2019-12-04	0	1
## 2019-12-06	1	1
## 2019-12-11	3	1
## 2019-12-17	3	2
## 2019-12-19	3	3
## 2019-12-20	1	3
## 2019-12-23	0	3
## 2019-12-30	0	2
## 2019-12-31	1	2
## 2020-01-02	1	2
## 2020-01-03	0	0
## 2020-01-06	0	0
## 2020-01-07	4	2
## 2020-01-08	4	2
## 2020-01-09	3	2
## 2020-01-10	3	5
## 2020-01-14	3	5
## 2020-01-15	3	5
## 2020-01-16	4	5
## 2020-01-17	2	5
## 2020-01-21	1	2
## 2020-01-24	0	0
## 2020-01-28	0	1
## 2020-01-29	0	1
## 2020-01-30	3	1
## 2020-01-31	3	3
## 2020-02-03	0	3
## 2020-02-04	2	3
## 2020-02-05	0	3
## 2020-02-06	1	4
## 2020-02-10	1	4
## 2020-02-11	0	4
## 2020-02-12	2	4
## 2020-02-19	2	1
## 2020-02-20	1	1
## 2020-02-26	0	0
## 2020-02-28	0	0
## 2020-03-02	0	0
## 2020-03-03	1	1
## 2020-03-04	1	1
## 2020-03-05	0	0
## 2020-03-10	1	1
## 2020-03-13	4	1

```

sum <- sum(predRF_round1==trainingSet$incrDaysThisCycle)
length <- length(trainingSet$incrDaysThisCycle)
accuracy_rfMod_round1 <- (sum/length)
accuracy_rfMod_round1

```

```
## [1] 0.3652413
```

```
results_round1 <- c(round(accuracy_rfMod_round1,2), round(100,2))
```

```
results_round1 <- as.factor(results_round1)
```

```
results_round1 <- t(data.frame(results_round1))
```

```
colnames(results_round1) <- colnames(predDF_round1)
```

```
Results_round1 <- rbind(predDF_round1, results_round1)
```

```
Results_round1
```

##	predRF_round1	IncreasingDaysThisCycle
## 2005-09-29	0	5
## 2005-09-30	1	5
## 2005-10-03	1	5
## 2005-10-04	1	5
## 2005-10-05	0	5
## 2005-10-06	2	5
## 2005-10-11	0	0
## 2005-10-12	0	0
## 2005-10-13	15	1
## 2005-10-17	0	0
## 2005-10-18	0	0
## 2005-10-20	2	2
## 2005-10-25	2	15
## 2005-10-26	0	15
## 2005-10-27	7	15
## 2005-10-31	7	15
## 2005-11-01	7	15
## 2005-11-02	8	15
## 2005-11-03	0	15
## 2005-11-04	0	15
## 2005-11-07	3	15
## 2005-11-08	0	15
## 2005-11-09	0	15
## 2005-11-10	0	15
## 2005-11-11	2	15
## 2005-11-15	2	15
## 2005-11-17	0	1
## 2005-11-18	0	0
## 2005-11-21	4	2
## 2005-11-25	0	1
## 2005-11-28	2	1
## 2005-11-29	3	2
## 2005-11-30	3	2
## 2005-12-01	0	2
## 2005-12-02	0	0
## 2005-12-05	8	2
## 2005-12-07	1	2
## 2005-12-08	1	1

## 2005-12-09	1	1
## 2005-12-15	1	8
## 2005-12-19	0	8
## 2005-12-20	0	8
## 2005-12-21	1	8
## 2005-12-22	2	8
## 2005-12-28	0	0
## 2005-12-30	0	3
## 2006-01-03	4	3
## 2006-01-04	5	3
## 2006-01-10	0	0
## 2006-01-11	1	1
## 2006-01-12	2	1
## 2006-01-13	0	0
## 2006-01-17	0	1
## 2006-01-18	4	1
## 2006-01-20	4	2
## 2006-01-25	0	0
## 2006-01-30	0	4
## 2006-01-31	5	4
## 2006-02-02	5	4
## 2006-02-06	0	0
## 2006-02-08	0	2
## 2006-02-09	0	2
## 2006-02-13	3	3
## 2006-02-14	3	3
## 2006-02-16	0	0
## 2006-02-17	0	0
## 2006-02-21	1	2
## 2006-02-22	2	2
## 2006-02-23	0	2
## 2006-02-24	0	0
## 2006-02-27	0	0
## 2006-02-28	0	0
## 2006-03-01	1	1
## 2006-03-02	3	1
## 2006-03-06	0	2
## 2006-03-07	2	2
## 2006-03-08	0	2
## 2006-03-10	2	1
## 2006-03-13	2	7
## 2006-03-14	3	7
## 2006-03-15	3	7
## 2006-03-16	3	7
## 2006-03-17	3	7
## 2006-03-21	1	7
## 2006-03-22	0	7
## 2006-03-23	0	0
## 2006-03-27	5	1
## 2006-03-31	1	1

## 2006-04-03	0	0
## 2006-04-04	0	0
## 2006-04-05	2	1
## 2006-04-06	3	1
## 2006-04-07	0	0
## 2006-04-13	0	1
## 2006-04-19	2	2
## 2006-04-21	0	4
## 2006-04-24	0	4
## 2006-04-25	2	4
## 2006-04-26	2	4
## 2006-04-28	0	5
## 2006-05-01	1	5
## 2006-05-03	1	5
## 2006-05-04	0	5
## 2006-05-08	0	1
## 2006-05-09	2	1
## 2006-05-10	0	0
## 2006-05-11	0	0
## 2006-05-15	1	1
## 2006-05-16	0	0
## 2006-05-17	1	2
## 2006-05-18	2	2
## 2006-05-19	0	2
## 2006-05-22	0	0
## 2006-05-23	0	0
## 2006-05-24	1	2
## 2006-05-26	3	2
## 2006-05-30	0	1
## 2006-06-01	0	0
## 2006-06-07	0	4
## 2006-06-09	0	4
## 2006-06-13	0	2
## 2006-06-14	4	2
## 2006-06-15	0	2
## 2006-06-16	0	5
## 2006-06-20	0	5
## 2006-06-21	0	5
## 2006-06-22	1	5
## 2006-06-23	1	5
## 2006-06-26	0	0
## 2006-06-27	0	0
## 2006-06-29	0	5
## 2006-07-03	3	5
## 2006-07-05	3	5
## 2006-07-06	2	5
## 2006-07-07	0	1
## 2006-07-10	1	1
## 2006-07-11	0	0
## 2006-07-14	1	3

## 2006-07-17	0	3
## 2006-07-18	5	3
## 2006-07-19	5	3
## 2006-07-20	0	0
## 2006-07-25	2	3
## 2006-07-31	0	0
## 2006-08-02	0	2
## 2006-08-03	2	2
## 2006-08-07	0	0
## 2006-08-08	0	0
## 2006-08-11	0	3
## 2006-08-14	3	3
## 2006-08-15	3	3
## 2006-08-16	1	3
## 2006-08-17	0	0
## 2006-08-18	0	0
## 2006-08-23	0	0
## 2006-08-24	0	0
## 2006-08-28	2	3
## 2006-08-29	2	3
## 2006-08-30	0	3
## 2006-09-01	0	1
## 2006-09-05	7	1
## 2006-09-06	7	2
## 2006-09-07	1	2
## 2006-09-11	2	3
## 2006-09-12	3	3
## 2006-09-13	3	3
## 2006-09-14	0	3
## 2006-09-19	1	2
## 2006-09-21	0	3
## 2006-09-27	0	0
## 2006-09-28	0	3
## 2006-09-29	0	3
## 2006-10-03	0	3
## 2006-10-04	2	1
## 2006-10-05	2	1
## 2006-10-06	0	0
## 2006-10-09	1	1
## 2006-10-10	2	1
## 2006-10-11	0	1
## 2006-10-13	0	0
## 2006-10-19	1	5
## 2006-10-20	0	5
## 2006-10-23	0	5
## 2006-10-24	0	5
## 2006-10-25	1	1
## 2006-10-26	3	1
## 2006-10-31	0	0
## 2006-11-01	0	0

## 2006-11-02	0	0
## 2006-11-03	3	2
## 2006-11-07	0	2
## 2006-11-08	0	0
## 2006-11-09	0	2
## 2006-11-10	0	2
## 2006-11-14	5	2
## 2006-11-15	5	2
## 2006-11-16	4	2
## 2006-11-21	4	3
## 2006-11-22	1	3
## 2006-11-24	0	0
## 2006-11-28	0	0
## 2006-11-29	0	0
## 2006-11-30	0	0
## 2006-12-01	0	1
## 2006-12-04	0	1
## 2006-12-05	0	1
## 2006-12-06	3	1
## 2006-12-07	3	2
## 2006-12-11	3	2
## 2006-12-12	0	0
## 2006-12-13	0	0
## 2006-12-18	1	1
## 2006-12-19	3	1
## 2006-12-20	0	0
## 2006-12-21	0	0
## 2006-12-22	3	2
## 2006-12-26	3	2
## 2006-12-28	0	0
## 2006-12-29	0	2
## 2007-01-03	1	2
## 2007-01-05	0	0
## 2007-01-09	3	2
## 2007-01-10	3	2
## 2007-01-11	2	2
## 2007-01-18	6	1
## 2007-01-19	4	1
## 2007-01-23	4	2
## 2007-01-25	4	2
## 2007-01-26	4	1
## 2007-01-29	0	1
## 2007-01-30	0	2
## 2007-02-02	1	1
## 2007-02-07	0	1
## 2007-02-09	3	2
## 2007-02-12	1	2
## 2007-02-14	0	0
## 2007-02-15	0	0
## 2007-02-16	0	0

## 2007-02-21	0	0
## 2007-02-22	0	0
## 2007-02-26	0	0
## 2007-02-27	5	1
## 2007-02-28	5	1
## 2007-03-02	0	0
## 2007-03-05	1	1
## 2007-03-06	3	1
## 2007-03-07	0	0
## 2007-03-08	0	0
## 2007-03-09	1	1
## 2007-03-12	1	1
## 2007-03-13	0	0
## 2007-03-15	5	1
## 2007-03-16	5	3
## 2007-03-19	5	3
## 2007-03-21	1	3
## 2007-03-26	0	0
## 2007-03-29	0	0
## 2007-03-30	0	0
## 2007-04-02	0	1
## 2007-04-03	3	1
## 2007-04-04	3	2
## 2007-04-05	3	2
## 2007-04-09	2	2
## 2007-04-11	0	0
## 2007-04-12	2	4
## 2007-04-13	2	4
## 2007-04-16	0	4
## 2007-04-17	1	4
## 2007-04-20	0	0
## 2007-04-23	0	0
## 2007-04-25	0	0
## 2007-05-01	2	1
## 2007-05-02	0	0
## 2007-05-04	0	1
## 2007-05-10	1	2
## 2007-05-11	4	2
## 2007-05-14	4	2
## 2007-05-15	2	3
## 2007-05-16	0	3
## 2007-05-17	5	3
## 2007-05-18	3	3
## 2007-05-21	3	3
## 2007-05-24	4	3
## 2007-05-25	4	2
## 2007-05-29	4	2
## 2007-05-31	0	0
## 2007-06-01	0	0
## 2007-06-04	0	0

## 2007-06-06	0	0
## 2007-06-08	3	1
## 2007-06-11	0	0
## 2007-06-13	3	1
## 2007-06-18	1	2
## 2007-06-19	2	2
## 2007-06-20	2	2
## 2007-06-21	0	0
## 2007-06-22	0	0
## 2007-06-25	0	0
## 2007-06-26	0	2
## 2007-06-27	1	2
## 2007-06-28	1	2
## 2007-07-03	1	5
## 2007-07-05	1	5
## 2007-07-09	1	5
## 2007-07-10	1	2
## 2007-07-12	1	2
## 2007-07-16	1	2
## 2007-07-17	6	2
## 2007-07-18	2	1
## 2007-07-19	1	1
## 2007-07-20	0	0
## 2007-07-23	5	1
## 2007-07-24	5	1
## 2007-07-25	0	0
## 2007-07-26	0	0
## 2007-07-27	0	0
## 2007-07-30	0	0
## 2007-08-01	9	2
## 2007-08-02	1	2
## 2007-08-03	2	2
## 2007-08-07	0	2
## 2007-08-08	3	2
## 2007-08-10	3	1
## 2007-08-15	3	1
## 2007-08-16	3	1
## 2007-08-17	2	3
## 2007-08-21	0	3
## 2007-08-24	1	1
## 2007-08-27	0	0
## 2007-08-28	3	4
## 2007-08-30	3	4
## 2007-08-31	1	4
## 2007-09-05	0	0
## 2007-09-07	0	0
## 2007-09-10	1	1
## 2007-09-12	1	2
## 2007-09-14	1	2
## 2007-09-18	3	2

## 2007-09-19	4	2
## 2007-09-21	0	0
## 2007-09-24	3	2
## 2007-09-25	3	2
## 2007-09-26	3	2
## 2007-09-28	3	7
## 2007-10-01	4	7
## 2007-10-02	2	7
## 2007-10-04	1	7
## 2007-10-05	2	7
## 2007-10-08	0	7
## 2007-10-10	0	0
## 2007-10-11	3	1
## 2007-10-16	3	2
## 2007-10-17	0	2
## 2007-10-18	0	0
## 2007-10-19	0	3
## 2007-10-22	1	3
## 2007-10-25	0	0
## 2007-10-30	0	1
## 2007-10-31	0	0
## 2007-11-01	0	0
## 2007-11-02	0	0
## 2007-11-05	0	0
## 2007-11-06	0	0
## 2007-11-08	0	0
## 2007-11-09	1	3
## 2007-11-13	1	3
## 2007-11-14	1	3
## 2007-11-20	1	2
## 2007-11-26	0	0
## 2007-11-27	4	1
## 2007-11-29	0	1
## 2007-12-03	0	0
## 2007-12-04	0	0
## 2007-12-05	0	0
## 2007-12-07	3	2
## 2007-12-10	0	2
## 2007-12-11	0	0
## 2007-12-12	1	1
## 2007-12-13	0	1
## 2007-12-17	0	3
## 2007-12-18	2	3
## 2007-12-19	2	3
## 2007-12-24	2	1
## 2007-12-27	0	0
## 2008-01-02	0	0
## 2008-01-03	0	0
## 2008-01-04	0	0
## 2008-01-07	0	0

## 2008-01-08	0	0
## 2008-01-10	1	1
## 2008-01-11	4	3
## 2008-01-15	4	3
## 2008-01-16	4	3
## 2008-01-17	0	1
## 2008-01-22	2	1
## 2008-01-25	2	1
## 2008-01-28	0	1
## 2008-01-29	2	3
## 2008-01-30	2	3
## 2008-01-31	1	3
## 2008-02-01	1	3
## 2008-02-04	2	3
## 2008-02-06	2	3
## 2008-02-07	1	3
## 2008-02-08	0	0
## 2008-02-12	4	1
## 2008-02-13	0	1
## 2008-02-14	0	1
## 2008-02-15	1	1
## 2008-02-19	1	1
## 2008-02-21	0	0
## 2008-02-22	4	2
## 2008-02-25	1	2
## 2008-02-26	0	2
## 2008-02-27	0	0
## 2008-02-28	0	0
## 2008-02-29	0	0
## 2008-03-03	2	2
## 2008-03-04	2	2
## 2008-03-05	4	2
## 2008-03-06	0	0
## 2008-03-07	0	0
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## 2019-08-28	3	2
## 2019-08-29	3	2
## 2019-08-30	4	9
## 2019-09-03	4	9
## 2019-09-04	4	9
## 2019-09-05	4	9
## 2019-09-09	0	9
## 2019-09-10	0	9
## 2019-09-11	3	9
## 2019-09-12	3	9
## 2019-09-13	3	9
## 2019-09-16	3	1
## 2019-09-17	1	1
## 2019-09-18	0	0
## 2019-09-20	0	0
## 2019-09-23	0	0
## 2019-09-24	0	1
## 2019-09-25	0	1
## 2019-09-27	0	0
## 2019-10-01	0	0
## 2019-10-02	0	0
## 2019-10-04	1	1
## 2019-10-11	1	6
## 2019-10-14	1	6
## 2019-10-15	1	6
## 2019-10-16	0	0
## 2019-10-17	1	2
## 2019-10-18	6	2

## 2019-10-23	2	4
## 2019-10-24	1	4
## 2019-10-29	0	0
## 2019-10-30	0	0
## 2019-11-04	5	3
## 2019-11-05	9	3
## 2019-11-11	0	0
## 2019-11-12	0	0
## 2019-11-13	9	2
## 2019-11-18	9	1
## 2019-11-20	0	0
## 2019-11-21	2	3
## 2019-11-22	0	3
## 2019-11-25	3	3
## 2019-11-26	3	3
## 2019-11-27	0	0
## 2019-11-29	0	0
## 2019-12-03	2	1
## 2019-12-04	0	1
## 2019-12-06	1	1
## 2019-12-11	3	1
## 2019-12-17	3	2
## 2019-12-19	3	3
## 2019-12-20	1	3
## 2019-12-23	0	3
## 2019-12-30	0	2
## 2019-12-31	1	2
## 2020-01-02	1	2
## 2020-01-03	0	0
## 2020-01-06	0	0
## 2020-01-07	4	2
## 2020-01-08	4	2
## 2020-01-09	3	2
## 2020-01-10	3	5
## 2020-01-14	3	5
## 2020-01-15	3	5
## 2020-01-16	4	5
## 2020-01-17	2	5
## 2020-01-21	1	2
## 2020-01-24	0	0
## 2020-01-28	0	1
## 2020-01-29	0	1
## 2020-01-30	3	1
## 2020-01-31	3	3
## 2020-02-03	0	3
## 2020-02-04	2	3
## 2020-02-05	0	3
## 2020-02-06	1	4
## 2020-02-10	1	4
## 2020-02-11	0	4

```

## 2020-02-12      2      4
## 2020-02-19      2      1
## 2020-02-20      1      1
## 2020-02-26      0      0
## 2020-02-28      0      0
## 2020-03-02      0      0
## 2020-03-03      1      1
## 2020-03-04      1      1
## 2020-03-05      0      0
## 2020-03-10      1      1
## 2020-03-13      4      1
## results_round1    0.37    100

knnMod_round1 <- train(incrDaysThisCycle ~ .,
  method='knn', preProcess=c('center','scale'),
  tuneLength=10, trControl=trainControl(method='cv'),
  data=trainingSet)

rpartMod_round1 <- train(incrDaysThisCycle ~ ., method='rpart', tuneLength=9,
  data=trainingSet)

glmMod_round1 <- train(incrDaysThisCycle ~ .,
  method='glm', data=trainingSet)

predKNN <- predict(knnMod_round1, trainingSet)
predKNN_round1 <- ifelse(predKNN<0,0,round(predKNN,0))

predRPART <- predict(rpartMod_round1, trainingSet)
predRPART_round1 <- ifelse(predRPART<0,0,round(predRPART,0))

predGLM <- predict(glmMod_round1, trainingSet)
predGLM_round1 <- ifelse(predGLM<0,0,round(predGLM,0))

length=length(trainingSet$incrDaysThisCycle)

sumKNN_round1 <- sum(predKNN_round1==trainingSet$incrDaysThisCycle)
sumRPart_round1 <- sum(predRPART_round1==trainingSet$incrDaysThisCycle)

sumGLM_round1 <- sum(predGLM_round1==trainingSet$incrDaysThisCycle)

accuracy_KNN_round1 <- sumKNN_round1/length
accuracy_RPART_round1 <- sumRPart_round1/length

accuracy_GLM_round1 <- sumGLM_round1/length

predDF2_round1 <-
data.frame(predRF_round1,predKNN_round1,predRPART_round1,predGLM_round1,
  IncreasingDaysThisCycle=trainingSet$incrDaysThisCycle)
colnames(predDF2_round1) <-
c('RandomForest_round1','KNN_round1','Rpart_round1','GLM_round1','IncreasingD
aysThisCycle')

```

```

results_round1 <- c(round(accuracy_rfMod_round1,2),
                    round(accuracy_KNN_round1,2),
                    round(accuracy_RPART_round1,2),
                    round(accuracy_GLM_round1,2),
                    round(100,2))

results_round1 <- as.factor(results_round1)
results_round1 <- t(data.frame(results_round1))
colnames(results_round1) <-
c('RandomForest_round1','KNN_round1','Rpart_round1','GLM_round1','IncreasingD
aysThisCycle')
Results_round1 <- rbind(predDF2_round1, results_round1)
Results_round1

```

##	RandomForest_round1	KNN_round1	Rpart_round1	GLM_round1
## 2005-09-29	0	5	4	4
## 2005-09-30	1	5	4	4
## 2005-10-03	1	6	4	4
## 2005-10-04	1	5	4	4
## 2005-10-05	0	5	4	4
## 2005-10-06	2	6	4	4
## 2005-10-11	0	0	0	0
## 2005-10-12	0	0	0	0
## 2005-10-13	15	1	1	2
## 2005-10-17	0	0	0	0
## 2005-10-18	0	0	0	0
## 2005-10-20	2	2	2	3
## 2005-10-25	2	6	14	4
## 2005-10-26	0	6	14	4
## 2005-10-27	7	6	14	4
## 2005-10-31	7	7	14	4
## 2005-11-01	7	8	14	4
## 2005-11-02	8	7	14	4
## 2005-11-03	0	7	14	4
## 2005-11-04	0	6	14	4
## 2005-11-07	3	6	14	4
## 2005-11-08	0	8	14	4
## 2005-11-09	0	6	14	4
## 2005-11-10	0	6	14	4
## 2005-11-11	2	7	14	4
## 2005-11-15	2	7	14	4
## 2005-11-17	0	1	1	2
## 2005-11-18	0	0	0	0
## 2005-11-21	4	2	2	3
## 2005-11-25	0	1	1	2
## 2005-11-28	2	1	1	2
## 2005-11-29	3	2	2	3
## 2005-11-30	3	2	2	3
## 2005-12-01	0	2	2	3
## 2005-12-02	0	0	0	0

## 2005-12-05	8	2	2	3
## 2005-12-07	1	2	2	3
## 2005-12-08	1	1	1	2
## 2005-12-09	1	1	1	2
## 2005-12-15	1	6	7	4
## 2005-12-19	0	6	7	4
## 2005-12-20	0	7	7	4
## 2005-12-21	1	6	7	4
## 2005-12-22	2	6	7	4
## 2005-12-28	0	0	0	0
## 2005-12-30	0	3	3	3
## 2006-01-03	4	3	3	3
## 2006-01-04	5	3	3	4
## 2006-01-10	0	0	0	0
## 2006-01-11	1	2	1	2
## 2006-01-12	2	1	1	2
## 2006-01-13	0	0	0	0
## 2006-01-17	0	1	1	2
## 2006-01-18	4	1	1	2
## 2006-01-20	4	3	2	3
## 2006-01-25	0	0	0	0
## 2006-01-30	0	6	4	4
## 2006-01-31	5	5	4	4
## 2006-02-02	5	5	4	4
## 2006-02-06	0	0	0	0
## 2006-02-08	0	2	2	3
## 2006-02-09	0	2	2	3
## 2006-02-13	3	4	3	3
## 2006-02-14	3	3	3	3
## 2006-02-16	0	0	0	0
## 2006-02-17	0	0	0	0
## 2006-02-21	1	2	2	3
## 2006-02-22	2	2	2	3
## 2006-02-23	0	2	2	3
## 2006-02-24	0	0	0	0
## 2006-02-27	0	0	0	0
## 2006-02-28	0	0	0	0
## 2006-03-01	1	1	1	2
## 2006-03-02	3	1	1	2
## 2006-03-06	0	2	2	3
## 2006-03-07	2	2	2	3
## 2006-03-08	0	2	2	3
## 2006-03-10	2	1	1	2
## 2006-03-13	2	6	7	4
## 2006-03-14	3	6	7	4
## 2006-03-15	3	6	7	4
## 2006-03-16	3	6	7	4
## 2006-03-17	3	5	7	4
## 2006-03-21	1	6	7	4
## 2006-03-22	0	6	7	4

## 2006-03-23	0	0	0	0
## 2006-03-27	5	1	1	2
## 2006-03-31	1	1	1	2
## 2006-04-03	0	0	0	0
## 2006-04-04	0	0	0	0
## 2006-04-05	2	1	1	2
## 2006-04-06	3	1	1	2
## 2006-04-07	0	0	0	0
## 2006-04-13	0	1	1	2
## 2006-04-19	2	2	2	3
## 2006-04-21	0	5	4	4
## 2006-04-24	0	4	4	4
## 2006-04-25	2	4	4	4
## 2006-04-26	2	4	4	4
## 2006-04-28	0	4	4	4
## 2006-05-01	1	5	4	4
## 2006-05-03	1	5	4	4
## 2006-05-04	0	4	4	4
## 2006-05-08	0	1	1	2
## 2006-05-09	2	3	1	2
## 2006-05-10	0	0	0	0
## 2006-05-11	0	0	0	0
## 2006-05-15	1	1	1	2
## 2006-05-16	0	0	0	0
## 2006-05-17	1	2	2	3
## 2006-05-18	2	2	2	3
## 2006-05-19	0	2	2	3
## 2006-05-22	0	0	0	0
## 2006-05-23	0	0	0	0
## 2006-05-24	1	2	2	3
## 2006-05-26	3	3	2	3
## 2006-05-30	0	1	1	2
## 2006-06-01	0	0	0	0
## 2006-06-07	0	4	4	4
## 2006-06-09	0	5	4	4
## 2006-06-13	0	2	2	3
## 2006-06-14	4	2	2	3
## 2006-06-15	0	2	2	3
## 2006-06-16	0	4	4	4
## 2006-06-20	0	4	4	4
## 2006-06-21	0	5	4	4
## 2006-06-22	1	4	4	4
## 2006-06-23	1	5	4	4
## 2006-06-26	0	0	0	0
## 2006-06-27	0	0	0	0
## 2006-06-29	0	5	4	4
## 2006-07-03	3	4	4	4
## 2006-07-05	3	6	4	4
## 2006-07-06	2	5	4	4
## 2006-07-07	0	1	1	2

## 2006-07-10	1	1	1	2
## 2006-07-11	0	0	0	0
## 2006-07-14	1	3	3	3
## 2006-07-17	0	3	3	3
## 2006-07-18	5	3	3	4
## 2006-07-19	5	4	3	4
## 2006-07-20	0	0	0	0
## 2006-07-25	2	3	3	4
## 2006-07-31	0	0	0	0
## 2006-08-02	0	2	2	3
## 2006-08-03	2	2	2	3
## 2006-08-07	0	0	0	0
## 2006-08-08	0	0	0	0
## 2006-08-11	0	3	3	3
## 2006-08-14	3	3	3	3
## 2006-08-15	3	4	3	4
## 2006-08-16	1	4	3	4
## 2006-08-17	0	0	0	0
## 2006-08-18	0	0	0	0
## 2006-08-23	0	0	0	0
## 2006-08-24	0	0	0	0
## 2006-08-28	2	3	3	3
## 2006-08-29	2	4	3	3
## 2006-08-30	0	4	3	4
## 2006-09-01	0	1	1	2
## 2006-09-05	7	1	1	2
## 2006-09-06	7	2	2	3
## 2006-09-07	1	2	2	3
## 2006-09-11	2	3	3	3
## 2006-09-12	3	4	3	4
## 2006-09-13	3	4	3	4
## 2006-09-14	0	3	3	4
## 2006-09-19	1	2	2	3
## 2006-09-21	0	3	3	3
## 2006-09-27	0	0	0	0
## 2006-09-28	0	4	3	3
## 2006-09-29	0	3	3	4
## 2006-10-03	0	3	3	4
## 2006-10-04	2	1	1	2
## 2006-10-05	2	1	1	2
## 2006-10-06	0	0	0	0
## 2006-10-09	1	1	1	2
## 2006-10-10	2	1	1	2
## 2006-10-11	0	1	1	2
## 2006-10-13	0	0	0	0
## 2006-10-19	1	4	4	4
## 2006-10-20	0	5	4	4
## 2006-10-23	0	5	4	4
## 2006-10-24	0	5	4	4
## 2006-10-25	1	1	1	2

## 2006-10-26	3	1	1	2
## 2006-10-31	0	0	0	0
## 2006-11-01	0	0	0	0
## 2006-11-02	0	0	0	0
## 2006-11-03	3	2	2	3
## 2006-11-07	0	2	2	3
## 2006-11-08	0	0	0	0
## 2006-11-09	0	2	2	3
## 2006-11-10	0	2	2	3
## 2006-11-14	5	2	2	3
## 2006-11-15	5	3	2	4
## 2006-11-16	4	2	2	3
## 2006-11-21	4	3	3	4
## 2006-11-22	1	3	3	4
## 2006-11-24	0	0	0	0
## 2006-11-28	0	0	0	0
## 2006-11-29	0	0	0	0
## 2006-11-30	0	0	0	0
## 2006-12-01	0	1	1	2
## 2006-12-04	0	1	1	2
## 2006-12-05	0	1	1	2
## 2006-12-06	3	2	1	2
## 2006-12-07	3	2	2	3
## 2006-12-11	3	2	2	3
## 2006-12-12	0	0	0	0
## 2006-12-13	0	0	0	0
## 2006-12-18	1	1	1	2
## 2006-12-19	3	1	1	2
## 2006-12-20	0	0	0	0
## 2006-12-21	0	0	0	0
## 2006-12-22	3	2	2	3
## 2006-12-26	3	2	2	3
## 2006-12-28	0	0	0	0
## 2006-12-29	0	2	2	3
## 2007-01-03	1	2	2	3
## 2007-01-05	0	0	0	0
## 2007-01-09	3	2	2	3
## 2007-01-10	3	2	2	3
## 2007-01-11	2	3	2	3
## 2007-01-18	6	1	1	2
## 2007-01-19	4	1	1	2
## 2007-01-23	4	2	2	3
## 2007-01-25	4	2	2	3
## 2007-01-26	4	1	1	2
## 2007-01-29	0	1	1	2
## 2007-01-30	0	2	2	3
## 2007-02-02	1	1	1	2
## 2007-02-07	0	1	1	2
## 2007-02-09	3	2	2	3
## 2007-02-12	1	3	2	3

## 2007-02-14	0	0	0	0
## 2007-02-15	0	0	0	0
## 2007-02-16	0	0	0	0
## 2007-02-21	0	0	0	0
## 2007-02-22	0	0	0	0
## 2007-02-26	0	0	0	0
## 2007-02-27	5	1	1	2
## 2007-02-28	5	1	1	2
## 2007-03-02	0	0	0	0
## 2007-03-05	1	1	1	2
## 2007-03-06	3	1	1	2
## 2007-03-07	0	0	0	0
## 2007-03-08	0	0	0	0
## 2007-03-09	1	1	1	2
## 2007-03-12	1	1	1	2
## 2007-03-13	0	0	0	0
## 2007-03-15	5	1	1	2
## 2007-03-16	5	3	3	4
## 2007-03-19	5	3	3	3
## 2007-03-21	1	3	3	4
## 2007-03-26	0	0	0	0
## 2007-03-29	0	0	0	0
## 2007-03-30	0	0	0	0
## 2007-04-02	0	1	1	2
## 2007-04-03	3	1	1	2
## 2007-04-04	3	2	2	3
## 2007-04-05	3	2	2	3
## 2007-04-09	2	2	2	3
## 2007-04-11	0	0	0	0
## 2007-04-12	2	4	4	4
## 2007-04-13	2	5	4	4
## 2007-04-16	0	4	4	4
## 2007-04-17	1	5	4	4
## 2007-04-20	0	0	0	0
## 2007-04-23	0	0	0	0
## 2007-04-25	0	0	0	0
## 2007-05-01	2	1	1	2
## 2007-05-02	0	0	0	0
## 2007-05-04	0	1	1	2
## 2007-05-10	1	3	2	3
## 2007-05-11	4	2	2	3
## 2007-05-14	4	2	2	3
## 2007-05-15	2	3	3	3
## 2007-05-16	0	3	3	4
## 2007-05-17	5	3	3	4
## 2007-05-18	3	3	3	3
## 2007-05-21	3	3	3	3
## 2007-05-24	4	3	3	4
## 2007-05-25	4	2	2	3
## 2007-05-29	4	3	2	3

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

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

## 2008-01-03	0	0	0	0
## 2008-01-04	0	0	0	0
## 2008-01-07	0	0	0	0
## 2008-01-08	0	0	0	0
## 2008-01-10	1	2	1	2
## 2008-01-11	4	3	3	3
## 2008-01-15	4	3	3	3
## 2008-01-16	4	4	3	3
## 2008-01-17	0	1	1	2
## 2008-01-22	2	1	1	2
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## 2019-07-09	1	3	3	3

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## 2019-07-17	0	1	1	2
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## 2019-07-22	3	2	2	3
## 2019-07-24	3	2	2	3
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## 2019-10-24	1	7	4	4
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## 2020-01-31	3	3	3	3
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## 2020-03-04	1	1	1	2
## 2020-03-05	0	0	0	0
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## 2006-01-25	0
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## 2018-07-18	5
## 2018-07-19	0
## 2018-07-20	1
## 2018-07-23	1
## 2018-07-24	2
## 2018-07-25	2
## 2018-07-30	1
## 2018-07-31	1
## 2018-08-06	0
## 2018-08-07	1
## 2018-08-08	1
## 2018-08-10	0
## 2018-08-13	3
## 2018-08-14	3
## 2018-08-15	3
## 2018-08-16	3
## 2018-08-17	2
## 2018-08-20	2
## 2018-08-21	2
## 2018-08-22	0
## 2018-08-23	0
## 2018-08-24	2
## 2018-08-28	2
## 2018-08-29	0
## 2018-08-31	2
## 2018-09-05	0
## 2018-09-06	0
## 2018-09-10	2
## 2018-09-11	2
## 2018-09-12	7
## 2018-09-13	7
## 2018-09-14	7

## 2018-09-17	7
## 2018-09-18	7
## 2018-09-19	7
## 2018-09-21	7
## 2018-09-24	0
## 2018-09-25	2
## 2018-09-26	2
## 2018-09-27	2
## 2018-09-28	0
## 2018-10-03	1
## 2018-10-05	0
## 2018-10-08	0
## 2018-10-09	0
## 2018-10-10	0
## 2018-10-11	0
## 2018-10-12	3
## 2018-10-15	3
## 2018-10-16	3
## 2018-10-17	3
## 2018-10-19	2
## 2018-10-22	2
## 2018-10-24	6
## 2018-10-25	6
## 2018-10-26	6
## 2018-10-29	6
## 2018-10-30	6
## 2018-10-31	6
## 2018-11-01	6
## 2018-11-02	0
## 2018-11-05	0
## 2018-11-06	1
## 2018-11-08	0
## 2018-11-09	3
## 2018-11-12	3
## 2018-11-16	0
## 2018-11-20	5
## 2018-11-21	5
## 2018-11-23	5
## 2018-11-26	5
## 2018-11-27	5
## 2018-11-28	5
## 2018-11-29	1
## 2018-11-30	1
## 2018-12-04	1
## 2018-12-06	1
## 2018-12-07	3
## 2018-12-11	3
## 2018-12-12	3
## 2018-12-17	1
## 2018-12-18	1

## 2018-12-19	0
## 2018-12-20	0
## 2018-12-21	0
## 2018-12-26	1
## 2018-12-28	2
## 2018-12-31	2
## 2019-01-02	2
## 2019-01-03	2
## 2019-01-07	2
## 2019-01-08	1
## 2019-01-09	1
## 2019-01-11	0
## 2019-01-14	4
## 2019-01-15	4
## 2019-01-16	4
## 2019-01-17	4
## 2019-01-18	4
## 2019-01-22	0
## 2019-01-23	3
## 2019-01-24	3
## 2019-01-28	3
## 2019-01-29	1
## 2019-01-30	1
## 2019-02-01	3
## 2019-02-04	3
## 2019-02-06	0
## 2019-02-07	0
## 2019-02-08	1
## 2019-02-11	1
## 2019-02-12	1
## 2019-02-13	1
## 2019-02-14	0
## 2019-02-15	1
## 2019-02-19	1
## 2019-02-20	0
## 2019-02-21	3
## 2019-02-26	3
## 2019-02-27	0
## 2019-02-28	0
## 2019-03-05	0
## 2019-03-08	1
## 2019-03-11	1
## 2019-03-12	2
## 2019-03-15	0
## 2019-03-18	1
## 2019-03-19	1
## 2019-03-25	0
## 2019-03-28	6
## 2019-04-01	6
## 2019-04-02	6

## 2019-04-03	6
## 2019-04-04	6
## 2019-04-05	6
## 2019-04-08	0
## 2019-04-09	2
## 2019-04-11	2
## 2019-04-12	0
## 2019-04-16	2
## 2019-04-17	2
## 2019-04-18	0
## 2019-04-23	2
## 2019-04-25	0
## 2019-04-26	2
## 2019-04-30	2
## 2019-05-01	2
## 2019-05-02	2
## 2019-05-03	2
## 2019-05-09	2
## 2019-05-13	1
## 2019-05-14	1
## 2019-05-15	1
## 2019-05-17	0
## 2019-05-20	1
## 2019-05-21	1
## 2019-05-23	0
## 2019-05-24	0
## 2019-05-28	0
## 2019-05-29	0
## 2019-05-30	0
## 2019-05-31	0
## 2019-06-03	4
## 2019-06-04	4
## 2019-06-05	4
## 2019-06-06	4
## 2019-06-07	4
## 2019-06-11	2
## 2019-06-12	2
## 2019-06-13	2
## 2019-06-17	0
## 2019-06-18	1
## 2019-06-20	0
## 2019-06-24	1
## 2019-06-25	4
## 2019-06-27	4
## 2019-06-28	4
## 2019-07-01	4
## 2019-07-02	1
## 2019-07-03	1
## 2019-07-05	1
## 2019-07-08	1

## 2019-07-09	3
## 2019-07-12	3
## 2019-07-15	1
## 2019-07-16	1
## 2019-07-17	1
## 2019-07-18	1
## 2019-07-22	2
## 2019-07-24	2
## 2019-07-25	0
## 2019-07-26	0
## 2019-07-29	0
## 2019-07-30	0
## 2019-07-31	0
## 2019-08-01	0
## 2019-08-02	0
## 2019-08-08	2
## 2019-08-09	0
## 2019-08-12	0
## 2019-08-13	0
## 2019-08-15	2
## 2019-08-19	2
## 2019-08-20	2
## 2019-08-21	2
## 2019-08-22	2
## 2019-08-26	0
## 2019-08-27	2
## 2019-08-28	2
## 2019-08-29	2
## 2019-08-30	9
## 2019-09-03	9
## 2019-09-04	9
## 2019-09-05	9
## 2019-09-09	9
## 2019-09-10	9
## 2019-09-11	9
## 2019-09-12	9
## 2019-09-13	9
## 2019-09-16	1
## 2019-09-17	1
## 2019-09-18	0
## 2019-09-20	0
## 2019-09-23	0
## 2019-09-24	1
## 2019-09-25	1
## 2019-09-27	0
## 2019-10-01	0
## 2019-10-02	0
## 2019-10-04	1
## 2019-10-11	6
## 2019-10-14	6

## 2019-10-15	6
## 2019-10-16	0
## 2019-10-17	2
## 2019-10-18	2
## 2019-10-23	4
## 2019-10-24	4
## 2019-10-29	0
## 2019-10-30	0
## 2019-11-04	3
## 2019-11-05	3
## 2019-11-11	0
## 2019-11-12	0
## 2019-11-13	2
## 2019-11-18	1
## 2019-11-20	0
## 2019-11-21	3
## 2019-11-22	3
## 2019-11-25	3
## 2019-11-26	3
## 2019-11-27	0
## 2019-11-29	0
## 2019-12-03	1
## 2019-12-04	1
## 2019-12-06	1
## 2019-12-11	1
## 2019-12-17	2
## 2019-12-19	3
## 2019-12-20	3
## 2019-12-23	3
## 2019-12-30	2
## 2019-12-31	2
## 2020-01-02	2
## 2020-01-03	0
## 2020-01-06	0
## 2020-01-07	2
## 2020-01-08	2
## 2020-01-09	2
## 2020-01-10	5
## 2020-01-14	5
## 2020-01-15	5
## 2020-01-16	5
## 2020-01-17	5
## 2020-01-21	2
## 2020-01-24	0
## 2020-01-28	1
## 2020-01-29	1
## 2020-01-30	1
## 2020-01-31	3
## 2020-02-03	3
## 2020-02-04	3

```
## 2020-02-05      3
## 2020-02-06      4
## 2020-02-10      4
## 2020-02-11      4
## 2020-02-12      4
## 2020-02-19      1
## 2020-02-20      1
## 2020-02-26      0
## 2020-02-28      0
## 2020-03-02      0
## 2020-03-03      1
## 2020-03-04      1
## 2020-03-05      0
## 2020-03-10      1
## 2020-03-13      1
## results_round1 100
```

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

```
sAAL_1$Date <- row.names(sAAL_1)
trainingSet$Date <- row.names(trainingSet)
Results_round1$Date <- row.names(Results_round1)
```

```
AAL_1 <- merge(trainingSet,Results_round1, by.x='Date', by.y='Date')
tbl <- rbind(head(AAL_1),tail(AAL_1))
tbl
```

##	Date	DayOfWeek	stockDayValue	lag1	today2lag1	incrDaysThisCycle
## 1	2005-09-29	Thursday	20.21	20.50	0.9858536	5
## 2	2005-09-30	Friday	21.01	20.21	1.0395844	5
## 3	2005-10-03	Monday	21.50	21.01	1.0233222	5
## 4	2005-10-04	Tuesday	22.16	21.50	1.0306977	5
## 5	2005-10-05	Wednesday	22.20	22.16	1.0018051	5
## 6	2005-10-06	Thursday	22.58	22.20	1.0171171	5
## 2544	2020-03-02	Monday	18.86	19.05	0.9900264	0
## 2545	2020-03-03	Tuesday	17.85	18.86	0.9464475	1
## 2546	2020-03-04	Wednesday	18.53	17.85	1.0380953	1
## 2547	2020-03-05	Thursday	16.04	18.53	0.8656233	0
## 2548	2020-03-10	Tuesday	17.00	14.75	1.1525424	1
## 2549	2020-03-13	Friday	14.31	13.45	1.0639405	1
##	nTimesIncrDayCountsOccurs	RandomForest_round1	KNN_round1	Rpart_round1		
## 1	30	0	5	4		
## 2	30	1	5	4		
## 3	30	1	6	4		
## 4	30	1	5	4		
## 5	30	0	5	4		
## 6	30	2	6	4		
## 2544	955	0	0	0		
## 2545	408	1	1	1		

```
## 2546          408          1          1          1
## 2547          955          0          0          0
## 2548          408          1          2          1
## 2549          408          4          1          1
##      GLM_round1 IncreasingDaysThisCycle
## 1          4          5
## 2          4          5
## 3          4          5
## 4          4          5
## 5          4          5
## 6          4          5
## 2544          0          0
## 2545          2          1
## 2546          2          1
## 2547          0          0
## 2548          2          1
## 2549          2          1
```

```
Results_round1$RandomForest_round1 <-
  as.numeric(paste(Results_round1$RandomForest_round1))
Results_round1$KNN_round1 <-
  as.numeric(paste(Results_round1$KNN_round1))
Results_round1$Rpart_round1 <-
  as.numeric(paste(Results_round1$Rpart_round1))
Results_round1$GLM_round1 <-
  as.numeric(paste(Results_round1$GLM_round1))
Results_round1$IncreasingDaysThisCycle <-
  as.numeric(paste(Results_round1$IncreasingDaysThisCycle))

Results_round1$mostVoted <- ifelse(

  (Results_round1$RandomForest_round1==Results_round1$KNN_round1 |
Results_round1$RandomForest_round1==Results_round1$Rpart_round1 |
Results_round1$RandomForest_round1==Results_round1$GLM_round1),

  ifelse(Results_round1$KNN_round1==Results_round1$Rpart_round1 |
Results_round1$KNN_round1==Results_round1$GLM_round1,
    Results_round1$RandomForest_round1,
    ifelse(Results_round1$Rpart_round1 ==Results_round1$GLM_round1,
      Results_round1$Rpart_round1,
      Results_round1$RandomForest_round1)),

  ifelse(Results_round1$KNN_round1==Results_round1$Rpart_round1 |
Results_round1$KNN_round1==Results_round1$GLM_round1,
    Results_round1$KNN_round1,
    ifelse(Results_round1$Rpart_round1==Results_round1$GLM_round1,
      Results_round1$Rpart_round1,
      ifelse(Results_round1$Rpart_round1>
        Results_round1$RandomForest_round1,
```

```

Results_round1$Rpart_round1,
Results_round1$RandomForest_round1))
)
)

```

It turns out that using the training set the model was built on to predict the number of days increasing is worse than using the set aside testing set.

The model trained on the training set and tested on the training set:

```

tr_Results <- rbind(head(Results_round1), tail(Results_round1))
tr_Results

```

##	RandomForest_round1	KNN_round1	Rpart_round1	GLM_round1
## 2005-09-29	0.00	5.00	4.00	4.00
## 2005-09-30	1.00	5.00	4.00	4.00
## 2005-10-03	1.00	6.00	4.00	4.00
## 2005-10-04	1.00	5.00	4.00	4.00
## 2005-10-05	0.00	5.00	4.00	4.00
## 2005-10-06	2.00	6.00	4.00	4.00
## 2020-03-03	1.00	1.00	1.00	2.00
## 2020-03-04	1.00	1.00	1.00	2.00
## 2020-03-05	0.00	0.00	0.00	0.00
## 2020-03-10	1.00	2.00	1.00	2.00
## 2020-03-13	4.00	1.00	1.00	2.00
## results_round1	0.37	0.81	0.91	0.45

##	IncreasingDaysThisCycle	Date	mostVoted
## 2005-09-29	5	2005-09-29	4.00
## 2005-09-30	5	2005-09-30	4.00
## 2005-10-03	5	2005-10-03	4.00
## 2005-10-04	5	2005-10-04	4.00
## 2005-10-05	5	2005-10-05	4.00
## 2005-10-06	5	2005-10-06	4.00
## 2020-03-03	1	2020-03-03	1.00
## 2020-03-04	1	2020-03-04	1.00
## 2020-03-05	0	2020-03-05	0.00
## 2020-03-10	1	2020-03-10	1.00
## 2020-03-13	1	2020-03-13	1.00
## results_round1	100	results_round1	0.91

The model trained on the training set and tested on the testing set:

```

te_Results <- rbind(head(Results_round), tail(Results_round))
te_Results

```

##	RandomForest_round	KNN_round	Rpart_round	GLM_round
## 2005-09-28	0.00	0.0	0.00	0.00
## 2005-10-07	1.00	1.0	1.00	2.00
## 2005-10-10	1.00	1.0	1.00	2.00
## 2005-10-14	1.00	1.0	1.00	2.00
## 2005-10-19	0.00	0.0	0.00	0.00

## 2005-10-21	2.00	3.0	2.00	3.00
## 2020-02-27	0.00	0.0	0.00	0.00
## 2020-03-06	0.00	0.0	0.00	0.00
## 2020-03-09	1.00	2.0	1.00	2.00
## 2020-03-11	0.00	0.0	0.00	0.00
## 2020-03-12	1.00	1.0	1.00	2.00
## results_round	0.99	0.8	0.91	0.45
##	IncreasingDaysThisCycle		Date	mostVoted
## 2005-09-28	0		2005-09-28	0.00
## 2005-10-07	1		2005-10-07	1.00
## 2005-10-10	1		2005-10-10	1.00
## 2005-10-14	1		2005-10-14	1.00
## 2005-10-19	0		2005-10-19	0.00
## 2005-10-21	2		2005-10-21	2.00
## 2020-02-27	0		2020-02-27	0.00
## 2020-03-06	0		2020-03-06	0.00
## 2020-03-09	1		2020-03-09	1.00
## 2020-03-11	0		2020-03-11	0.00
## 2020-03-12	1		2020-03-12	1.00
## results_round	100	results_round		0.99

It is the same model that takes the best model results by most voted among the four algorithms used on the training and testing sets. When the testing set was used the best model in prediction accuracy for increasing days in that cycle was random forest. And when this model was used on the training set the best model was recursive partitioned trees.

We can test out each of the 65 stocks we have records for. The stocks_65 table has the counts and groups of stock and daily stock values within the time period of that table. To modify the table to return the dates with respective counts and groups of counts within that report, the matrix_automateDateLagStocks2.Rmd file would have to have the date set in the beginning of the script, and ran with the number of lags or days in stock value pricing before each instance date within the time interval. It takes 10-20 minutes to produce the table csv ALL_65_stocks_countGroups_YYYY-MM-DD_YYYY_MM_DD_lagN.csv where the first ymd is the beginning of the time series and the 2nd is the date the script ran and lagN is the input number of days to lag behind each daily price (the value N days earlier).

```
head(stocks_65)
```

```
##   stockName
## 1      AAL
## 2      AAL
## 3      AAL
## 4      AAL
## 5      AAL
## 6      AAL
##
stockInfo
```



```

## 1 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price.
Currency in USD
## 2 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price.
Currency in USD
## 3 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price.
Currency in USD
## 4 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price.
Currency in USD
## 5 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price.
Currency in USD
## 6 American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price.
Currency in USD
##      stockExchange      Date DayOfWeek Month Year MonthYear stockDayValue
## 1      Nasdaq 2005-09-28 Wednesday   Sep 2005   Sep-2005         20.50
## 2      Nasdaq 2005-09-29  Thursday   Sep 2005   Sep-2005         20.21
## 3      Nasdaq 2005-09-30   Friday    Sep 2005   Sep-2005         21.01
## 4      Nasdaq 2005-10-03   Monday    Oct 2005   Oct-2005         21.50
## 5      Nasdaq 2005-10-04  Tuesday    Oct 2005   Oct-2005         22.16
## 6      Nasdaq 2005-10-05 Wednesday   Oct 2005   Oct-2005         22.20
##      startDayValue startDayDate finalDayValue finalDayDate lag1 today2lag1
## 1          19.3    2005-09-27         14.31    2020-03-13 19.30 1.0621762
## 2          19.3    2005-09-27         14.31    2020-03-13 20.50 0.9858536
## 3          19.3    2005-09-27         14.31    2020-03-13 20.21 1.0395844
## 4          19.3    2005-09-27         14.31    2020-03-13 21.01 1.0233222
## 5          19.3    2005-09-27         14.31    2020-03-13 21.50 1.0306977
## 6          19.3    2005-09-27         14.31    2020-03-13 22.16 1.0018051
##      todayGrtrThanlag1 cumulativeSumTodayGrtrThanlag1
nRepeatsTodayGrtrThanlag1
## 1          1          1
2
## 2          0          1
2
## 3          1          2
1
## 4          1          3
1
## 5          1          4
1
## 6          1          5
1
##      decrDaysThisCycle nTimesDecrDayCountsOccurs todayLessThanlag1
## 1          1          411          0
## 2          1          411          1
## 3          0          943          0
## 4          0          943          0
## 5          0          943          0
## 6          0          943          0
##      cumulativeSumTodayLessThanlag1 nRepeatsTodayLessThanlag1
incrDaysThisCycle
## 1          0          1

```

```

0
## 2          1          6
5
## 3          1          6
5
## 4          1          6
5
## 5          1          6
5
## 6          1          6
5
##   nTimesIncrDayCountsOccurs
## 1          955
## 2          30
## 3          30
## 4          30
## 5          30
## 6          30

unique(stocks_65$stockName)

## [1] AAL    AAP    ADDYY  AMZN   ARWR   C      COST   CVX    DLTR   EPD
## [11] F      FFIN   FTR    GOOG   HD     HMC    HOFT   HRB    HST    INO
## [21] JBLU   JNJ    JPM     JWN    KGJI   KSS    LUV    M      MGM    MSFT
## [31] NFLX   NKE    NSANY   NUS    ONCY   PCG    ROST   RRGB   S      SIG
## [41] T      TEVA   TGT     TJX    TM     UBSI   VZ     WFC    WM     WMT
## [51] WWE    XOM    AMC     ASCCY  CSSEP  FCAU   GM     GNBT   GRPN   PBYI
## [61] QSR    SCE-PB SDC     TMUS   YELP
## 65 Levels: AAL AAP ADDYY AMC AMZN ARWR ASCCY C COST CSSEP CVX DLTR EPD ...
YELP

```

Go ahead and select one of the stocks in the list above and analyze where it is in a cycle of decreasing or increasing days as we did with the AAL stock.

Lets select the YELP stock, it has a limited number of observations that start March 2, 2012 through Mar 13, 2020.

```

sYELP <- subset(stocks_65, stocks_65$stockName=='YELP')
head(sYELP)

##      stockName
stockInfo
## 288866      YELP Yelp Inc. (YELP)\nNYSE - NYSE Delayed Price. Currency in
USD
## 288867      YELP Yelp Inc. (YELP)\nNYSE - NYSE Delayed Price. Currency in
USD
## 288868      YELP Yelp Inc. (YELP)\nNYSE - NYSE Delayed Price. Currency in
USD
## 288869      YELP Yelp Inc. (YELP)\nNYSE - NYSE Delayed Price. Currency in
USD
## 288870      YELP Yelp Inc. (YELP)\nNYSE - NYSE Delayed Price. Currency in

```

USD

288871 YELP Yelp Inc. (YELP)\nNYSE - NYSE Delayed Price. Currency in USD

stockExchange Date DayOfWeek Month Year MonthYear
stockDayValue

288866 NYSE 2012-03-05 Monday Mar 2012 Mar-2012

20.99

288867 NYSE 2012-03-06 Tuesday Mar 2012 Mar-2012

20.50

288868 NYSE 2012-03-07 Wednesday Mar 2012 Mar-2012

20.25

288869 NYSE 2012-03-08 Thursday Mar 2012 Mar-2012

20.00

288870 NYSE 2012-03-09 Friday Mar 2012 Mar-2012

19.80

288871 NYSE 2012-03-12 Monday Mar 2012 Mar-2012

22.49

startDayValue startDayDate finalDayValue finalDayDate lag1

today2lag1

288866 24.58 2012-03-02 23.54 2020-03-13 24.58

0.8539463

288867 24.58 2012-03-02 23.54 2020-03-13 20.99

0.9766556

288868 24.58 2012-03-02 23.54 2020-03-13 20.50

0.9878049

288869 24.58 2012-03-02 23.54 2020-03-13 20.25

0.9876543

288870 24.58 2012-03-02 23.54 2020-03-13 20.00

0.9899999

288871 24.58 2012-03-02 23.54 2020-03-13 19.80

1.1358586

todayGrtrThanlag1 cumulativeSumTodayGrtrThanlag1

288866 0 0

288867 0 0

288868 0 0

288869 0 0

288870 0 0

288871 1 1

nRepeatsTodayGrtrThanlag1 decrDaysThisCycle

nTimesDecrDayCountsOccurs

288866 5 4

25

288867 5 4

25

288868 5 4

25

288869 5 4

25

288870 5 4

25

```
## 288871          1          0
485
##          todayLessThanlag1 cumulativeSumTodayLessThanlag1
## 288866          1          1
## 288867          1          2
## 288868          1          3
## 288869          1          4
## 288870          1          5
## 288871          0          5
```

```
##          nRepeatsTodayLessThanlag1 incrDaysThisCycle
nTimesIncrDayCountsOccurs
```

```
## 288866          1          0
494
## 288867          1          0
494
## 288868          1          0
494
## 288869          1          0
494
## 288870          3          2
131
## 288871          3          2
131
```

```
str(sYELP)
```

```
## 'data.frame': 2020 obs. of 25 variables:
## $ stockName : Factor w/ 65 levels
"AAL","AAP","ADDYY",...: 65 65 65 65 65 65 65 65 65 65 ...
## $ stockInfo : Factor w/ 65 levels "adidas AG
(ADDYY)\nOther OTC - Other OTC Delayed Price. Currency in USD",...: 65 65 65
65 65 65 65 65 65 ...
## $ stockExchange : Factor w/ 3 levels "Nasdaq","NYSE",...:
2 2 2 2 2 2 2 2 2 2 ...
## $ Date : Factor w/ 5333 levels "1999-01-
04","1999-01-05",...: 3314 3315 3316 3317 3318 3319 3320 3321 3322 3323 ...
## $ DayOfWeek : Factor w/ 5 levels
"Friday","Monday",...: 2 4 5 3 1 2 4 5 3 1 ...
## $ Month : Factor w/ 12 levels
"Apr","Aug","Dec",...: 8 8 8 8 8 8 8 8 8 8 ...
## $ Year : int 2012 2012 2012 2012 2012 2012 2012 2012
2012 2012 2012 ...
## $ MonthYear : Factor w/ 255 levels "Apr-1999","Apr-
2000",...: 163 163 163 163 163 163 163 163 163 163 ...
## $ stockDayValue : num 21 20.5 20.2 20 19.8 ...
## $ startDayValue : num 24.6 24.6 24.6 24.6 24.6 ...
## $ startDayDate : Factor w/ 24 levels "1999-01-04","1999-
10-19",...: 17 17 17 17 17 17 17 17 17 17 ...
## $ finalDayValue : num 23.5 23.5 23.5 23.5 23.5 ...
## $ finalDayDate : Factor w/ 1 level "2020-03-13": 1 1 1 1
```

```

1 1 1 1 1 1 ...
## $ lag1 : num 24.6 21 20.5 20.2 20 ...
## $ today2lag1 : num 0.854 0.977 0.988 0.988 0.99 ...
## $ todayGrtrThanlag1 : int 0 0 0 0 0 1 1 0 0 0 ...
## $ cumulativeSumTodayGrtrThanlag1 : int 0 0 0 0 0 1 2 2 2 2 ...
## $ nRepeatsTodayGrtrThanlag1 : int 5 5 5 5 5 1 4 4 4 4 ...
## $ decrDaysThisCycle : int 4 4 4 4 4 0 3 3 3 3 ...
## $ nTimesDecrDayCountsOccurs : int 25 25 25 25 25 485 74 74 74 74 ...
## $ todayLessThanlag1 : int 1 1 1 1 1 0 0 1 1 1 ...
## $ cumulativeSumTodayLessThanlag1 : int 1 2 3 4 5 5 5 6 7 8 ...
## $ nRepeatsTodayLessThanlag1 : int 1 1 1 1 3 3 3 1 1 2 ...
## $ incrDaysThisCycle : int 0 0 0 0 2 2 2 0 0 1 ...
## $ nTimesIncrDayCountsOccurs : int 494 494 494 494 131 131 131 494
494 263 ...

```

Lets change the date column to date and the year to a factor.

```

sYELP$Date <- as.Date(sYELP$Date)
sYELP$Year <- as.factor(sYELP$Year)

```

Lets predict the number of decreasing days this cycle based on a select subset of the features displayed above.

```

sYELP1 <- sYELP[,c(4,5,9,14,15,19,20,21,24,25)]
colnames(sYELP1)

## [1] "Date" "DayOfWeek"
## [3] "stockDayValue" "lag1"
## [5] "today2lag1" "decrDaysThisCycle"
## [7] "nTimesDecrDayCountsOccurs" "todayLessThanlag1"
## [9] "incrDaysThisCycle" "nTimesIncrDayCountsOccurs"

```

Lets also add a lead column that will give the next day stock value for YELP using the dplyr package. We can then see how it predicts the next day value.

```

sYELP1$NextDayPrice <- lead(sYELP1$stockDayValue,1)
sYELP1 <- sYELP1[complete.cases(sYELP1$NextDayPrice),]
tail(sYELP1)

##           Date DayOfWeek stockDayValue lag1 today2lag1
decrDaysThisCycle
## 290879 2020-03-05 Thursday           29.14 31.39 0.9283211
3
## 290880 2020-03-06 Friday             28.94 29.14 0.9931367
3
## 290881 2020-03-09 Monday              26.40 28.94 0.9122322
3
## 290882 2020-03-10 Tuesday             27.81 26.40 1.0534091
2
## 290883 2020-03-11 Wednesday          24.00 27.81 0.8629990
2

```

```
## 290884 2020-03-12 Thursday 21.46 24.00 0.8941666
2
## nTimesDecrDayCountsOccurs todayLessThanlag1 incrDaysThisCycle
## 290879 74 1 0
## 290880 74 1 0
## 290881 74 1 1
## 290882 122 0 1
## 290883 122 1 0
## 290884 122 1 1
## nTimesIncrDayCountsOccurs NextDayPrice
## 290879 494 28.94
## 290880 494 26.40
## 290881 263 27.81
## 290882 263 24.00
## 290883 494 21.46
## 290884 263 23.54
```

Since we used the next day price, the stock YELP doesn't have information for the 13th of March 2020 in this data set and the table now extends through 3/12/2020. Make the row names the date and then remove the date column.

```
row.names(sYELP1) <- as.factor(sYELP1$Date)
sYELP1 <- sYELP1[, -c(1)]
head(sYELP1)

## DayOfWeek stockDayValue lag1 today2lag1 decrDaysThisCycle
## 2012-03-05 Monday 20.99 24.58 0.8539463 4
## 2012-03-06 Tuesday 20.50 20.99 0.9766556 4
## 2012-03-07 Wednesday 20.25 20.50 0.9878049 4
## 2012-03-08 Thursday 20.00 20.25 0.9876543 4
## 2012-03-09 Friday 19.80 20.00 0.9899999 4
## 2012-03-12 Monday 22.49 19.80 1.1358586 0
## nTimesDecrDayCountsOccurs todayLessThanlag1 incrDaysThisCycle
## 2012-03-05 25 1 0
## 2012-03-06 25 1 0
## 2012-03-07 25 1 0
## 2012-03-08 25 1 0
## 2012-03-09 25 1 2
## 2012-03-12 485 0 2
## nTimesIncrDayCountsOccurs NextDayPrice
## 2012-03-05 494 20.50
## 2012-03-06 494 20.25
## 2012-03-07 494 20.00
## 2012-03-08 494 19.80
## 2012-03-09 131 22.49
## 2012-03-12 131 23.30
```

Now to predict the number of decreasing days, then to predict the accuracy in next day price of the stock.

```

set.seed(12356789)

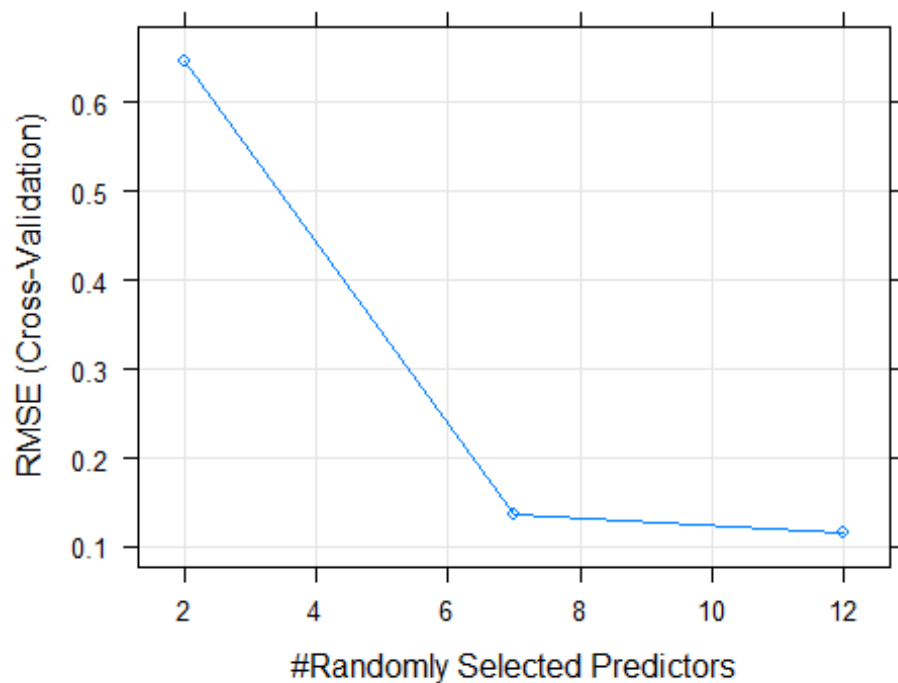
inTrain <- createDataPartition(y=sYELP1$decrDaysThisCycle, p=0.7, list=FALSE)

trainingSet <- sYELP1[inTrain,]
testingSet <- sYELP1[-inTrain,]

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

plot(rfMod)

```



```

predRF <- predict(rfMod, testingSet)

predDF <- data.frame(predRF, type=testingSet$decrDaysThisCycle)
predDF

```

	predRF	type
## 2012-03-06	3.990000e+00	4
## 2012-03-09	3.982000e+00	4
## 2012-03-13	3.000000e+00	3
## 2012-03-14	3.000000e+00	3
## 2012-03-20	1.000000e+00	1
## 2012-03-23	1.000000e+00	1
## 2012-04-04	3.000000e+00	3
## 2012-04-10	1.000000e+00	1
## 2012-04-26	-1.158185e-15	0

##	2012-05-04	-1.254108e-15	0
##	2012-05-17	1.998000e+00	2
##	2012-05-21	1.006000e+00	1
##	2012-05-30	3.000000e+00	3
##	2012-06-08	1.000000e+00	1
##	2012-06-12	-8.335554e-16	0
##	2012-06-13	-9.343637e-16	0
##	2012-06-14	-9.525714e-16	0
##	2012-06-19	1.994000e+00	2
##	2012-07-02	-1.040501e-15	0
##	2012-07-10	3.998000e+00	4
##	2012-07-13	2.000000e+00	2
##	2012-07-19	-1.169287e-15	0
##	2012-07-20	4.996000e+00	5
##	2012-07-30	2.000000e+00	2
##	2012-07-31	2.000000e+00	2
##	2012-08-01	1.994000e+00	2
##	2012-08-09	1.000000e+00	1
##	2012-08-14	8.000000e+00	8
##	2012-08-17	8.000000e+00	8
##	2012-08-20	8.000000e+00	8
##	2012-08-27	1.996000e+00	2
##	2012-08-28	2.000000e+00	2
##	2012-08-29	1.000000e+00	1
##	2012-08-31	-1.259437e-15	0
##	2012-09-06	2.000000e+00	2
##	2012-09-13	2.000000e+00	2
##	2012-09-14	2.000000e+00	2
##	2012-09-18	1.996000e+00	2
##	2012-09-20	-1.303846e-15	0
##	2012-09-24	2.000000e+00	2
##	2012-09-25	2.000000e+00	2
##	2012-09-26	-1.151967e-15	0
##	2012-10-02	1.000000e+00	1
##	2012-10-11	1.000000e+00	1
##	2012-10-16	1.000000e+00	1
##	2012-10-17	4.000000e+00	4
##	2012-10-18	4.000000e+00	4
##	2012-10-25	2.000000e+00	2
##	2012-11-02	4.000000e+00	4
##	2012-11-06	3.970000e+00	4
##	2012-11-07	2.998000e+00	3
##	2012-11-12	3.000000e+00	3
##	2012-11-14	1.002000e+00	1
##	2012-11-20	1.012000e+00	1
##	2012-12-04	2.988000e+00	3
##	2012-12-05	2.998000e+00	3
##	2012-12-06	3.000000e+00	3
##	2012-12-17	3.000000e+00	3
##	2012-12-18	3.000000e+00	3

##	2012-12-19	-9.778844e-16	0
##	2012-12-21	1.000000e+00	1
##	2012-12-24	1.000000e+00	1
##	2012-12-31	1.000000e+00	1
##	2013-01-04	3.000000e+00	3
##	2013-01-08	2.996000e+00	3
##	2013-01-09	3.000000e+00	3
##	2013-01-16	4.990000e+00	5
##	2013-01-18	1.000000e+00	1
##	2013-01-22	1.004000e+00	1
##	2013-01-25	3.000000e+00	3
##	2013-01-31	2.000000e+00	2
##	2013-02-22	2.000000e+00	2
##	2013-02-25	2.000000e+00	2
##	2013-02-26	1.994000e+00	2
##	2013-03-01	-1.286526e-15	0
##	2013-03-04	2.006000e+00	2
##	2013-03-06	1.996000e+00	2
##	2013-03-25	5.980000e+00	6
##	2013-03-26	-1.065370e-15	0
##	2013-03-27	3.000000e+00	3
##	2013-04-05	2.000000e+00	2
##	2013-04-10	-1.171507e-15	0
##	2013-04-11	-1.303846e-15	0
##	2013-04-17	1.000000e+00	1
##	2013-04-19	2.996000e+00	3
##	2013-04-24	3.000000e+00	3
##	2013-05-03	4.002000e+00	4
##	2013-05-13	1.000000e+00	1
##	2013-05-14	1.000000e+00	1
##	2013-05-17	-1.284750e-15	0
##	2013-05-20	-1.129763e-15	0
##	2013-06-06	-1.290523e-15	0
##	2013-06-10	3.000000e+00	3
##	2013-06-12	3.000000e+00	3
##	2013-06-14	-1.379341e-15	0
##	2013-06-17	1.000000e+00	1
##	2013-06-25	-1.056932e-15	0
##	2013-06-28	1.000000e+00	1
##	2013-07-10	1.000000e+00	1
##	2013-07-11	-9.965362e-16	0
##	2013-07-15	1.000000e+00	1
##	2013-07-24	2.996000e+00	3
##	2013-07-25	-1.159961e-15	0
##	2013-07-29	1.000000e+00	1
##	2013-08-09	1.000000e+00	1
##	2013-08-13	2.002000e+00	2
##	2013-08-21	-1.096456e-15	0
##	2013-08-26	2.000000e+00	2
##	2013-09-04	-8.602008e-16	0

##	2013-09-05	-1.053824e-15	0
##	2013-09-09	1.000000e+00	1
##	2013-09-12	3.000000e+00	3
##	2013-09-16	3.000000e+00	3
##	2013-09-25	2.996000e+00	3
##	2013-09-27	3.000000e+00	3
##	2013-10-03	-9.316992e-16	0
##	2013-10-09	3.000000e+00	3
##	2013-10-10	-1.129319e-15	0
##	2013-10-11	-1.252776e-15	0
##	2013-10-14	1.000000e+00	1
##	2013-10-16	1.000000e+00	1
##	2013-10-22	3.000000e+00	3
##	2013-10-28	2.000000e+00	2
##	2013-10-31	1.000000e+00	1
##	2013-11-05	2.000000e+00	2
##	2013-11-08	1.000000e+00	1
##	2013-11-11	9.980000e-01	1
##	2013-11-13	-1.002309e-15	0
##	2013-11-15	2.988000e+00	3
##	2013-11-18	2.992000e+00	3
##	2013-11-20	3.000000e+00	3
##	2013-11-26	2.996000e+00	3
##	2013-11-27	3.000000e+00	3
##	2013-12-10	1.000000e+00	1
##	2013-12-23	1.000000e+00	1
##	2013-12-26	1.000000e+00	1
##	2014-01-15	1.000000e+00	1
##	2014-01-22	4.988000e+00	5
##	2014-01-28	1.000000e+00	1
##	2014-01-29	1.000000e+00	1
##	2014-01-31	1.000000e+00	1
##	2014-02-03	1.000000e+00	1
##	2014-02-24	-3.437250e-16	0
##	2014-02-27	1.000000e+00	1
##	2014-03-03	-3.717027e-16	0
##	2014-03-11	3.000000e+00	3
##	2014-03-19	6.000000e+00	6
##	2014-03-20	6.000000e+00	6
##	2014-03-21	6.000000e+00	6
##	2014-03-24	6.000000e+00	6
##	2014-03-26	6.000000e+00	6
##	2014-03-31	-7.491785e-16	0
##	2014-04-01	3.000000e+00	3
##	2014-04-08	-1.022737e-15	0
##	2014-04-09	2.000000e+00	2
##	2014-04-11	2.000000e+00	2
##	2014-04-14	-1.065814e-15	0
##	2014-04-25	4.000000e+00	4
##	2014-05-01	1.000000e+00	1

##	2014-05-05	1.000000e+00	1
##	2014-05-13	2.000000e+00	2
##	2014-05-19	-9.401369e-16	0
##	2014-05-20	-1.057820e-15	0
##	2014-05-21	-1.038281e-15	0
##	2014-05-28	1.000000e+00	1
##	2014-05-29	2.000000e+00	2
##	2014-05-30	2.000000e+00	2
##	2014-06-02	2.000000e+00	2
##	2014-06-05	-1.148415e-15	0
##	2014-06-06	-1.320721e-15	0
##	2014-06-16	1.000000e+00	1
##	2014-06-17	-7.558398e-16	0
##	2014-06-24	1.000000e+00	1
##	2014-07-08	3.000000e+00	3
##	2014-07-14	3.000000e+00	3
##	2014-07-18	1.000000e+00	1
##	2014-07-29	-9.228174e-16	0
##	2014-08-04	2.000000e+00	2
##	2014-08-05	1.998000e+00	2
##	2014-08-08	1.000000e+00	1
##	2014-08-12	1.008000e+00	1
##	2014-08-14	6.000000e-03	0
##	2014-08-18	4.000000e-03	0
##	2014-08-22	2.000000e-02	0
##	2014-08-25	1.012000e+00	1
##	2014-09-02	2.000000e+00	2
##	2014-09-05	2.000000e+00	2
##	2014-09-09	2.000000e+00	2
##	2014-09-11	5.000000e+00	5
##	2014-09-23	-8.015810e-16	0
##	2014-09-25	1.000000e+00	1
##	2014-09-26	3.000000e+00	3
##	2014-09-30	3.000000e+00	3
##	2014-10-01	3.000000e+00	3
##	2014-10-02	-9.903189e-16	0
##	2014-10-06	1.992000e+00	2
##	2014-10-09	3.000000e+00	3
##	2014-10-15	-9.681145e-16	0
##	2014-10-16	-1.026734e-15	0
##	2014-10-21	2.000000e+00	2
##	2014-10-29	1.000000e+00	1
##	2014-11-04	2.000000e+00	2
##	2014-11-07	1.000000e+00	1
##	2014-11-14	2.996000e+00	3
##	2014-11-18	2.996000e+00	3
##	2014-12-08	2.000000e+00	2
##	2014-12-09	1.000000e+00	1
##	2014-12-10	1.000000e+00	1
##	2014-12-22	1.000000e+00	1

##	2014-12-26	2.006000e+00	2
##	2014-12-30	-1.165734e-15	0
##	2014-12-31	-1.099121e-15	0
##	2015-01-22	-1.001421e-15	0
##	2015-02-09	1.996000e+00	2
##	2015-02-18	2.000000e+00	2
##	2015-02-26	-1.102229e-15	0
##	2015-03-06	2.990000e+00	3
##	2015-03-09	2.996000e+00	3
##	2015-03-18	2.992000e+00	3
##	2015-03-23	-9.610091e-16	0
##	2015-03-30	2.000000e+00	2
##	2015-04-01	2.000000e+00	2
##	2015-04-06	1.000000e+00	1
##	2015-04-17	3.000000e+00	3
##	2015-04-21	-1.088019e-15	0
##	2015-04-22	1.000000e+00	1
##	2015-04-28	-1.172396e-15	0
##	2015-05-06	2.996000e+00	3
##	2015-05-12	7.000000e+00	7
##	2015-05-13	7.000000e+00	7
##	2015-05-14	7.000000e+00	7
##	2015-05-15	7.000000e+00	7
##	2015-05-18	7.000000e+00	7
##	2015-05-29	1.000000e+00	1
##	2015-06-03	2.000000e+00	2
##	2015-06-10	4.000000e+00	4
##	2015-06-15	1.000000e+00	1
##	2015-06-17	1.000000e+00	1
##	2015-06-22	-1.041389e-15	0
##	2015-06-25	4.000000e+00	4
##	2015-06-26	4.000000e+00	4
##	2015-06-29	4.000000e+00	4
##	2015-06-30	7.000000e+00	7
##	2015-07-07	7.000000e+00	7
##	2015-07-08	7.000000e+00	7
##	2015-07-09	7.000000e+00	7
##	2015-07-10	7.000000e+00	7
##	2015-07-14	1.000000e+00	1
##	2015-07-28	4.000000e+00	4
##	2015-07-29	4.000000e+00	4
##	2015-07-31	1.000000e+00	1
##	2015-08-03	1.000000e+00	1
##	2015-08-06	3.000000e+00	3
##	2015-08-12	1.000000e+00	1
##	2015-08-13	1.000000e+00	1
##	2015-08-17	5.998000e+00	6
##	2015-08-18	6.000000e+00	6
##	2015-08-25	5.966000e+00	6
##	2015-09-01	1.000000e+00	1

##	2015-09-04	1.000000e+00	1
##	2015-09-10	2.000000e+00	2
##	2015-09-17	1.026443e+01	9
##	2015-09-29	9.825767e+00	9
##	2015-10-05	1.000000e+00	1
##	2015-10-06	1.000000e+00	1
##	2015-10-08	-1.232792e-15	0
##	2015-10-09	3.000000e+00	3
##	2015-10-19	3.000000e+00	3
##	2015-10-23	-1.300737e-15	0
##	2015-10-27	2.000000e+00	2
##	2015-10-28	1.996000e+00	2
##	2015-11-20	1.000000e+00	1
##	2015-12-01	-1.081801e-15	0
##	2015-12-03	2.996000e+00	3
##	2015-12-08	1.000000e+00	1
##	2015-12-15	3.000000e+00	3
##	2015-12-16	2.998000e+00	3
##	2015-12-22	-1.043610e-15	0
##	2015-12-23	-1.211475e-15	0
##	2015-12-30	1.000000e+00	1
##	2015-12-31	1.035663e+01	11
##	2016-01-06	1.084410e+01	11
##	2016-01-15	9.746100e+00	11
##	2016-01-19	1.005080e+01	11
##	2016-01-26	2.000000e+00	2
##	2016-01-27	1.998000e+00	2
##	2016-02-03	2.000000e+00	2
##	2016-02-04	4.984000e+00	5
##	2016-02-05	4.986000e+00	5
##	2016-02-10	5.000000e+00	5
##	2016-02-18	9.980000e-01	1
##	2016-02-19	-1.017408e-15	0
##	2016-02-24	1.998000e+00	2
##	2016-02-25	-8.801848e-16	0
##	2016-03-04	1.000000e+00	1
##	2016-03-11	-1.223910e-15	0
##	2016-03-15	1.004000e+00	1
##	2016-03-16	-1.083578e-15	0
##	2016-03-23	3.996000e+00	4
##	2016-03-24	1.002000e+00	1
##	2016-03-31	1.998000e+00	2
##	2016-04-07	1.998000e+00	2
##	2016-04-08	2.000000e+00	2
##	2016-04-14	2.000000e-03	0
##	2016-04-25	1.000000e+00	1
##	2016-04-26	3.000000e+00	3
##	2016-05-04	2.000000e+00	2
##	2016-05-10	2.000000e+00	2
##	2016-05-19	2.000000e+00	2

##	2016-05-23	1.000000e+00	1
##	2016-05-24	-1.076028e-15	0
##	2016-05-27	-1.351808e-15	0
##	2016-06-07	1.000000e+00	1
##	2016-06-08	-1.146194e-15	0
##	2016-06-09	2.998000e+00	3
##	2016-06-13	3.000000e+00	3
##	2016-06-14	3.008000e+00	3
##	2016-06-17	-1.404654e-15	0
##	2016-06-20	-1.093348e-15	0
##	2016-06-21	1.000000e+00	1
##	2016-06-22	1.000000e+00	1
##	2016-06-23	2.000000e+00	2
##	2016-06-27	2.022000e+00	2
##	2016-07-25	-1.111999e-15	0
##	2016-07-29	2.000000e+00	2
##	2016-08-03	-1.196376e-15	0
##	2016-08-09	-9.037215e-16	0
##	2016-08-12	1.000000e+00	1
##	2016-08-24	2.994000e+00	3
##	2016-08-29	1.000000e+00	1
##	2016-09-06	3.000000e+00	3
##	2016-09-12	1.000000e+00	1
##	2016-09-15	3.000000e+00	3
##	2016-09-16	3.000000e+00	3
##	2016-09-23	-1.172840e-15	0
##	2016-09-26	-1.013856e-15	0
##	2016-09-29	1.000000e+00	1
##	2016-10-03	-1.064926e-15	0
##	2016-10-06	2.000000e+00	2
##	2016-10-11	3.998000e+00	4
##	2016-10-12	3.992000e+00	4
##	2016-10-25	3.996000e+00	4
##	2016-10-27	4.000000e+00	4
##	2016-10-28	4.000000e+00	4
##	2016-10-31	1.000000e+00	1
##	2016-11-02	1.000000e+00	1
##	2016-11-03	1.000000e+00	1
##	2016-11-04	6.000000e-03	0
##	2016-11-07	-9.166001e-16	0
##	2016-11-08	-9.823253e-16	0
##	2016-11-17	-1.022737e-15	0
##	2016-11-21	-9.210410e-16	0
##	2016-11-25	2.000000e+00	2
##	2016-11-30	2.994000e+00	3
##	2016-12-02	3.000000e+00	3
##	2016-12-05	1.996000e+00	2
##	2016-12-08	2.000000e+00	2
##	2016-12-09	2.000000e+00	2
##	2016-12-14	1.000000e+00	1

##	2016-12-16	1.000000e+00	1
##	2017-01-12	1.000000e+00	1
##	2017-01-26	1.988000e+00	2
##	2017-02-02	4.990000e+00	5
##	2017-02-07	4.990000e+00	5
##	2017-02-14	7.000000e+00	7
##	2017-02-17	7.000000e+00	7
##	2017-02-24	7.000000e+00	7
##	2017-02-27	1.004000e+00	1
##	2017-02-28	1.000000e+00	1
##	2017-03-02	2.000000e+00	2
##	2017-03-07	1.000000e+00	1
##	2017-03-15	-1.068479e-15	0
##	2017-03-21	6.000000e+00	6
##	2017-03-22	6.000000e+00	6
##	2017-03-31	9.980000e-01	1
##	2017-04-06	2.000000e+00	2
##	2017-04-13	2.000000e+00	2
##	2017-04-17	-1.113776e-15	0
##	2017-04-18	1.000000e+00	1
##	2017-04-25	-1.008083e-15	0
##	2017-05-02	1.000000e+00	1
##	2017-05-05	-1.109335e-15	0
##	2017-05-08	2.000000e+00	2
##	2017-05-12	1.000000e+00	1
##	2017-05-18	1.000000e+00	1
##	2017-05-25	1.000000e+00	1
##	2017-05-30	-1.115108e-15	0
##	2017-06-05	1.000000e+00	1
##	2017-06-09	1.000000e+00	1
##	2017-06-14	2.000000e+00	2
##	2017-06-22	-1.252776e-15	0
##	2017-06-27	2.000000e+00	2
##	2017-07-05	1.000000e+00	1
##	2017-07-10	-1.075584e-15	0
##	2017-07-11	-1.054712e-15	0
##	2017-07-12	1.000000e+00	1
##	2017-07-14	1.000000e+00	1
##	2017-07-21	3.998000e+00	4
##	2017-07-24	3.946000e+00	4
##	2017-07-26	-1.047162e-15	0
##	2017-07-27	-1.165290e-15	0
##	2017-07-28	1.000000e+00	1
##	2017-07-31	1.000000e+00	1
##	2017-08-03	2.000000e+00	2
##	2017-08-10	2.996000e+00	3
##	2017-08-15	1.000000e+00	1
##	2017-08-25	1.000000e+00	1
##	2017-08-29	-1.123546e-15	0
##	2017-08-30	1.000000e+00	1

##	2017-09-15	1.000000e+00	1
##	2017-09-25	4.000000e+00	4
##	2017-09-28	1.004000e+00	1
##	2017-10-02	-1.016076e-15	0
##	2017-10-10	7.000000e+00	7
##	2017-10-16	7.000000e+00	7
##	2017-10-20	1.000000e+00	1
##	2017-10-31	2.988000e+00	3
##	2017-11-01	2.994000e+00	3
##	2017-11-02	3.000000e+00	3
##	2017-11-06	2.004000e+00	2
##	2017-11-15	1.000000e+00	1
##	2017-11-20	1.000000e+00	1
##	2017-11-21	1.000000e+00	1
##	2017-11-28	7.990000e+00	8
##	2017-11-29	7.990000e+00	8
##	2017-12-05	7.990000e+00	8
##	2017-12-06	7.990000e+00	8
##	2017-12-07	7.990000e+00	8
##	2017-12-11	-1.016964e-15	0
##	2017-12-14	1.000000e+00	1
##	2017-12-18	3.982000e+00	4
##	2018-01-10	2.000000e+00	2
##	2018-01-12	1.000000e+00	1
##	2018-01-16	1.000000e+00	1
##	2018-01-17	1.996000e+00	2
##	2018-01-23	1.000000e+00	1
##	2018-01-25	-1.193268e-15	0
##	2018-01-26	-1.365574e-15	0
##	2018-01-31	-1.048495e-15	0
##	2018-02-01	2.000000e+00	2
##	2018-02-06	-1.109779e-15	0
##	2018-02-26	4.000000e+00	4
##	2018-03-02	1.000000e+00	1
##	2018-03-06	-1.112888e-15	0
##	2018-03-08	1.000000e+00	1
##	2018-03-09	-1.260769e-15	0
##	2018-03-13	1.000000e+00	1
##	2018-03-15	7.000000e+00	7
##	2018-03-16	7.000000e+00	7
##	2018-03-26	1.000000e+00	1
##	2018-03-28	-1.004974e-15	0
##	2018-04-03	-1.170619e-15	0
##	2018-04-10	-1.183054e-15	0
##	2018-04-17	3.000000e+00	3
##	2018-04-18	2.994000e+00	3
##	2018-04-20	3.000000e+00	3
##	2018-04-23	2.000000e+00	2
##	2018-04-30	1.000000e+00	1
##	2018-05-01	1.000000e+00	1

##	2018-05-02	1.000000e+00	1
##	2018-05-03	1.000000e+00	1
##	2018-05-09	2.980000e+00	3
##	2018-05-10	2.994000e+00	3
##	2018-05-16	-1.047162e-15	0
##	2018-05-18	-1.311395e-15	0
##	2018-05-22	1.000000e+00	1
##	2018-05-31	1.000000e+00	1
##	2018-06-06	2.000000e+00	2
##	2018-06-14	1.000000e+00	1
##	2018-06-15	1.000000e+00	1
##	2018-06-18	-1.050271e-15	0
##	2018-06-28	-1.139977e-15	0
##	2018-07-02	1.000000e+00	1
##	2018-07-03	1.000000e+00	1
##	2018-07-06	1.000000e+00	1
##	2018-07-10	1.996000e+00	2
##	2018-07-17	4.996000e+00	5
##	2018-07-19	5.000000e+00	5
##	2018-07-20	4.990000e+00	5
##	2018-07-26	3.000000e+00	3
##	2018-07-30	2.998000e+00	3
##	2018-08-01	-8.828493e-16	0
##	2018-08-03	-1.108891e-15	0
##	2018-08-06	2.004000e+00	2
##	2018-08-09	-6.203926e-16	0
##	2018-08-13	1.000000e+00	1
##	2018-08-15	6.000000e+00	6
##	2018-08-22	6.000000e+00	6
##	2018-08-23	-1.265210e-15	0
##	2018-08-29	1.000000e+00	1
##	2018-08-30	1.000000e+00	1
##	2018-08-31	2.996000e+00	3
##	2018-09-05	3.000000e+00	3
##	2018-09-18	1.000000e+00	1
##	2018-09-19	1.000000e+00	1
##	2018-09-21	2.000000e+00	2
##	2018-09-25	1.000000e+00	1
##	2018-09-28	2.994000e+00	3
##	2018-10-09	4.990000e+00	5
##	2018-10-16	2.982000e+00	3
##	2018-10-22	1.996000e+00	2
##	2018-10-29	2.000000e+00	2
##	2018-10-31	-1.090683e-15	0
##	2018-11-05	-1.124878e-15	0
##	2018-11-06	-1.200817e-15	0
##	2018-11-08	2.000000e+00	2
##	2018-11-23	-1.282086e-15	0
##	2018-11-26	1.000000e+00	1
##	2018-11-29	1.000000e+00	1

##	2018-12-10	-8.988366e-16	0
##	2018-12-11	1.000000e+00	1
##	2018-12-14	2.996000e+00	3
##	2018-12-17	2.996000e+00	3
##	2018-12-18	3.000000e+00	3
##	2018-12-21	1.996000e+00	2
##	2018-12-28	1.000000e+00	1
##	2019-01-02	2.000000e+00	2
##	2019-01-08	-9.658940e-16	0
##	2019-01-09	1.000000e+00	1
##	2019-01-11	1.000000e+00	1
##	2019-01-14	9.980000e-01	1
##	2019-01-15	-9.876544e-16	0
##	2019-01-16	-8.775203e-16	0
##	2019-01-17	2.000000e-03	0
##	2019-01-29	2.000000e+00	2
##	2019-01-30	1.000000e+00	1
##	2019-02-05	3.000000e+00	3
##	2019-02-12	2.000000e+00	2
##	2019-02-19	2.994000e+00	3
##	2019-02-21	3.000000e+00	3
##	2019-02-25	1.001690e+01	10
##	2019-02-26	1.001273e+01	10
##	2019-02-28	1.004417e+01	10
##	2019-03-05	1.003877e+01	10
##	2019-03-06	9.998333e+00	10
##	2019-03-18	3.000000e+00	3
##	2019-03-28	1.000000e+00	1
##	2019-04-01	-9.876544e-16	0
##	2019-04-12	2.998000e+00	3
##	2019-04-16	-9.436896e-16	0
##	2019-04-22	6.000000e-03	0
##	2019-04-24	1.000000e+00	1
##	2019-04-26	-9.512391e-16	0
##	2019-04-30	1.992000e+00	2
##	2019-05-01	2.000000e+00	2
##	2019-05-10	2.990000e+00	3
##	2019-05-14	-1.071587e-15	0
##	2019-05-21	2.000000e+00	2
##	2019-06-11	1.000000e+00	1
##	2019-06-17	-1.103562e-15	0
##	2019-06-24	1.000000e+00	1
##	2019-06-26	1.600000e-02	0
##	2019-07-09	1.400000e-02	0
##	2019-07-11	4.000000e-03	0
##	2019-07-15	1.000000e+00	1
##	2019-07-17	4.000000e+00	4
##	2019-07-18	4.000000e+00	4
##	2019-07-24	1.000000e+00	1
##	2019-08-02	1.000000e+00	1

```
## 2019-08-06 -1.051603e-15 0
## 2019-08-07 -1.066258e-15 0
## 2019-08-13 3.000000e+00 3
## 2019-08-15 -1.188383e-15 0
## 2019-08-19 2.008000e+00 2
## 2019-08-28 -1.069367e-15 0
## 2019-08-30 3.000000e+00 3
## 2019-09-10 -1.012523e-15 0
## 2019-09-11 -7.820411e-16 0
## 2019-09-18 6.000000e+00 6
## 2019-09-19 6.000000e+00 6
## 2019-09-30 -1.036504e-15 0
## 2019-10-03 2.000000e+00 2
## 2019-10-07 3.998000e+00 4
## 2019-10-08 4.000000e+00 4
## 2019-10-11 -1.270095e-15 0
## 2019-10-15 -1.081801e-15 0
## 2019-10-21 -1.099565e-15 0
## 2019-10-22 2.000000e+00 2
## 2019-10-24 2.000000e+00 2
## 2019-10-25 -1.214140e-15 0
## 2019-11-04 4.000000e+00 4
## 2019-11-11 3.000000e+00 3
## 2019-11-19 2.996000e+00 3
## 2019-11-21 2.996000e+00 3
## 2019-11-26 -9.845458e-16 0
## 2019-12-03 -1.064038e-15 0
## 2019-12-04 4.990000e+00 5
## 2019-12-05 5.000000e+00 5
## 2019-12-06 5.000000e+00 5
## 2019-12-12 -1.142642e-15 0
## 2019-12-16 -1.065814e-15 0
## 2019-12-17 -1.032507e-15 0
## 2020-01-03 2.998000e+00 3
## 2020-01-10 -1.007194e-15 0
## 2020-01-15 6.000000e-03 0
## 2020-01-17 2.000000e+00 2
## 2020-01-21 1.996000e+00 2
## 2020-01-22 -9.059420e-16 0
## 2020-01-29 3.004000e+00 3
## 2020-02-04 -1.090239e-15 0
## 2020-02-11 -1.012523e-15 0
## 2020-02-19 2.996000e+00 3
## 2020-02-24 2.000000e+00 2
## 2020-03-03 1.000000e+00 1
## 2020-03-04 3.000000e+00 3
```

```
sum <- sum(predRF==testingSet$decrDaysThisCycle)
length <- length(testingSet$decrDaysThisCycle)
```

```

accuracy_rfMod <- (sum/length)
accuracy_rfMod

## [1] 0.3008264

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 type
## 2012-03-06          3.99    4
## 2012-03-09        3.982    4
## 2012-03-13          3     3
## 2012-03-14          3     3
## 2012-03-20          1     1
## 2012-03-23          1     1
## 2012-04-04          3     3
## 2012-04-10          1     1
## 2012-04-26 -1.15818465928896e-15  0
## 2012-05-04 -1.25410792861658e-15  0
## 2012-05-17         1.998     2
## 2012-05-21         1.006     1
## 2012-05-30          3     3
## 2012-06-08          1     1
## 2012-06-12 -8.33555446888568e-16  0
## 2012-06-13 -9.34363697524532e-16  0
## 2012-06-14 -9.52571355128384e-16  0
## 2012-06-19         1.994     2
## 2012-07-02 -1.0405010186787e-15  0
## 2012-07-10         3.998     4
## 2012-07-13          2     2
## 2012-07-19 -1.16928688953521e-15  0
## 2012-07-20         4.996     5
## 2012-07-30          2     2
## 2012-07-31          2     2
## 2012-08-01         1.994     2
## 2012-08-09          1     1
## 2012-08-14          8     8
## 2012-08-17          8     8
## 2012-08-20          8     8
## 2012-08-27         1.996     2
## 2012-08-28          2     2
## 2012-08-29          1     1
## 2012-08-31 -1.25943699913478e-15  0
## 2012-09-06          2     2
## 2012-09-13          2     2

```

## 2012-09-14	2	2
## 2012-09-18	1.996	2
## 2012-09-20	-1.30384592011978e-15	0
## 2012-09-24	2	2
## 2012-09-25	2	2
## 2012-09-26	-1.15196741035106e-15	0
## 2012-10-02	1	1
## 2012-10-11	1	1
## 2012-10-16	1	1
## 2012-10-17	4	4
## 2012-10-18	4	4
## 2012-10-25	2	2
## 2012-11-02	4	4
## 2012-11-06	3.97	4
## 2012-11-07	2.998	3
## 2012-11-12	3	3
## 2012-11-14	1.002	1
## 2012-11-20	1.012	1
## 2012-12-04	2.988	3
## 2012-12-05	2.998	3
## 2012-12-06	3	3
## 2012-12-17	3	3
## 2012-12-18	3	3
## 2012-12-19	-9.77884440089838e-16	0
## 2012-12-21	1	1
## 2012-12-24	1	1
## 2012-12-31	1	1
## 2013-01-04	3	3
## 2013-01-08	2.996	3
## 2013-01-09	3	3
## 2013-01-16	4.99	5
## 2013-01-18	1	1
## 2013-01-22	1.004	1
## 2013-01-25	3	3
## 2013-01-31	2	2
## 2013-02-22	2	2
## 2013-02-25	2	2
## 2013-02-26	1.994	2
## 2013-03-01	-1.28652644093563e-15	0
## 2013-03-04	2.006	2
## 2013-03-06	1.996	2
## 2013-03-25	5.98	6
## 2013-03-26	-1.0653700144303e-15	0
## 2013-03-27	3	3
## 2013-04-05	2	2
## 2013-04-10	-1.17150733558447e-15	0
## 2013-04-11	-1.30384592011978e-15	0
## 2013-04-17	1	1
## 2013-04-19	2.996	3
## 2013-04-24	3	3

## 2013-05-03	4.002	4
## 2013-05-13	1	1
## 2013-05-14	1	1
## 2013-05-17	-1.28475008409623e-15	0
## 2013-05-20	-1.12976294985856e-15	0
## 2013-06-06	-1.29052324382428e-15	0
## 2013-06-10	3	3
## 2013-06-12	3	3
## 2013-06-14	-1.37934108579429e-15	0
## 2013-06-17	1	1
## 2013-06-25	-1.05693231944315e-15	0
## 2013-06-28	1	1
## 2013-07-10	1	1
## 2013-07-11	-9.96536186903541e-16	0
## 2013-07-15	1	1
## 2013-07-24	2.996	3
## 2013-07-25	-1.15996101612836e-15	0
## 2013-07-29	1	1
## 2013-08-09	1	1
## 2013-08-13	2.002	2
## 2013-08-21	-1.0964562591198e-15	0
## 2013-08-26	2	2
## 2013-09-04	-8.60200799479571e-16	0
## 2013-09-05	-1.0538236949742e-15	0
## 2013-09-09	1	1
## 2013-09-12	3	3
## 2013-09-16	3	3
## 2013-09-25	2.996	3
## 2013-09-27	3	3
## 2013-10-03	-9.31699162265431e-16	0
## 2013-10-09	3	3
## 2013-10-10	-1.12931886064871e-15	0
## 2013-10-11	-1.25277566098703e-15	0
## 2013-10-14	1	1
## 2013-10-16	1	1
## 2013-10-22	3	3
## 2013-10-28	2	2
## 2013-10-31	1	1
## 2013-11-05	2	2
## 2013-11-08	1	1
## 2013-11-11	0.998	1
## 2013-11-13	-1.00230934663159e-15	0
## 2013-11-15	2.988	3
## 2013-11-18	2.992	3
## 2013-11-20	3	3
## 2013-11-26	2.996	3
## 2013-11-27	3	3
## 2013-12-10	1	1
## 2013-12-23	1	1
## 2013-12-26	1	1

## 2014-01-15	1	1
## 2014-01-22	4.988	5
## 2014-01-28	1	1
## 2014-01-29	1	1
## 2014-01-31	1	1
## 2014-02-03	1	1
## 2014-02-24	-3.43725048423948e-16	0
## 2014-02-27	1	1
## 2014-03-03	-3.71702668644502e-16	0
## 2014-03-11	3	3
## 2014-03-19	6	6
## 2014-03-20	6	6
## 2014-03-21	6	6
## 2014-03-24	6	6
## 2014-03-26	6	6
## 2014-03-31	-7.49178497017056e-16	0
## 2014-04-01	3	3
## 2014-04-08	-1.02273745028469e-15	0
## 2014-04-09	2	2
## 2014-04-11	2	2
## 2014-04-14	-1.06581410364015e-15	0
## 2014-04-25	4	4
## 2014-05-01	1	1
## 2014-05-05	1	1
## 2014-05-13	2	2
## 2014-05-19	-9.40136857252583e-16	0
## 2014-05-20	-1.05782049786285e-15	0
## 2014-05-21	-1.03828057262945e-15	0
## 2014-05-28	1	1
## 2014-05-29	2	2
## 2014-05-30	2	2
## 2014-06-02	2	2
## 2014-06-05	-1.14841469667226e-15	0
## 2014-06-06	-1.32072131009409e-15	0
## 2014-06-16	1	1
## 2014-06-17	-7.55839835164807e-16	0
## 2014-06-24	1	1
## 2014-07-08	3	3
## 2014-07-14	3	3
## 2014-07-18	1	1
## 2014-07-29	-9.2281737806843e-16	0
## 2014-08-04	2	2
## 2014-08-05	1.998	2
## 2014-08-08	1	1
## 2014-08-12	1.008	1
## 2014-08-14	0.00599999999999938	0
## 2014-08-18	0.00399999999999947	0
## 2014-08-22	0.0199999999999995	0
## 2014-08-25	1.012	1
## 2014-09-02	2	2

## 2014-09-05	2	2
## 2014-09-09	2	2
## 2014-09-11	5	5
## 2014-09-23	-8.01581023779363e-16	0
## 2014-09-25	1	1
## 2014-09-26	3	3
## 2014-09-30	3	3
## 2014-10-01	3	3
## 2014-10-02	-9.9031893796564e-16	0
## 2014-10-06	1.992	2
## 2014-10-09	3	3
## 2014-10-15	-9.68114477473137e-16	0
## 2014-10-16	-1.02673425317334e-15	0
## 2014-10-21	2	2
## 2014-10-29	1	1
## 2014-11-04	2	2
## 2014-11-07	1	1
## 2014-11-14	2.996	3
## 2014-11-18	2.996	3
## 2014-12-08	2	2
## 2014-12-09	1	1
## 2014-12-10	1	1
## 2014-12-22	1	1
## 2014-12-26	2.006	2
## 2014-12-30	-1.16573417585641e-15	0
## 2014-12-31	-1.09912079437891e-15	0
## 2015-01-22	-1.00142116821189e-15	0
## 2015-02-09	1.996	2
## 2015-02-18	2	2
## 2015-02-26	-1.10222941884786e-15	0
## 2015-03-06	2.99	3
## 2015-03-09	2.996	3
## 2015-03-18	2.992	3
## 2015-03-23	-9.61009050115536e-16	0
## 2015-03-30	2	2
## 2015-04-01	2	2
## 2015-04-06	1	1
## 2015-04-17	3	3
## 2015-04-21	-1.08801856413265e-15	0
## 2015-04-22	1	1
## 2015-04-28	-1.17239551400417e-15	0
## 2015-05-06	2.996	3
## 2015-05-12	7	7
## 2015-05-13	7	7
## 2015-05-14	7	7
## 2015-05-15	7	7
## 2015-05-18	7	7
## 2015-05-29	1	1
## 2015-06-03	2	2
## 2015-06-10	4	4

## 2015-06-15	1	1
## 2015-06-17	1	1
## 2015-06-22	-1.0413891970984e-15	0
## 2015-06-25	4	4
## 2015-06-26	4	4
## 2015-06-29	4	4
## 2015-06-30	7	7
## 2015-07-07	7	7
## 2015-07-08	7	7
## 2015-07-09	7	7
## 2015-07-10	7	7
## 2015-07-14	1	1
## 2015-07-28	4	4
## 2015-07-29	4	4
## 2015-07-31	1	1
## 2015-08-03	1	1
## 2015-08-06	3	3
## 2015-08-12	1	1
## 2015-08-13	1	1
## 2015-08-17	5.998	6
## 2015-08-18	6	6
## 2015-08-25	5.966	6
## 2015-09-01	1	1
## 2015-09-04	1	1
## 2015-09-10	2	2
## 2015-09-17	10.2644333333333	9
## 2015-09-29	9.82576666666667	9
## 2015-10-05	1	1
## 2015-10-06	1	1
## 2015-10-08	-1.23279164654377e-15	0
## 2015-10-09	3	3
## 2015-10-19	3	3
## 2015-10-23	-1.30073729565083e-15	0
## 2015-10-27	2	2
## 2015-10-28	1.996	2
## 2015-11-20	1	1
## 2015-12-01	-1.08180131519475e-15	0
## 2015-12-03	2.996	3
## 2015-12-08	1	1
## 2015-12-15	3	3
## 2015-12-16	2.998	3
## 2015-12-22	-1.04360964314765e-15	0
## 2015-12-23	-1.21147536447097e-15	0
## 2015-12-30	1	1
## 2015-12-31	10.3566333333333	11
## 2016-01-06	10.8441	11
## 2016-01-15	9.7461	11
## 2016-01-19	10.0508	11
## 2016-01-26	2	2
## 2016-01-27	1.998	2

## 2016-02-03	2	2
## 2016-02-04	4.984	5
## 2016-02-05	4.986	5
## 2016-02-10	5	5
## 2016-02-18	0.998	1
## 2016-02-19	-1.01740837976649e-15	0
## 2016-02-24	1.998	2
## 2016-02-25	-8.80184813922824e-16	0
## 2016-03-04	1	1
## 2016-03-11	-1.22390986234677e-15	0
## 2016-03-15	1.004	1
## 2016-03-16	-1.08357767203415e-15	0
## 2016-03-23	3.996	4
## 2016-03-24	1.002	1
## 2016-03-31	1.998	2
## 2016-04-07	1.998	2
## 2016-04-08	2	2
## 2016-04-14	0.00199999999999903	0
## 2016-04-25	1	1
## 2016-04-26	3	3
## 2016-05-04	2	2
## 2016-05-10	2	2
## 2016-05-19	2	2
## 2016-05-23	1	1
## 2016-05-24	-1.0760281554667e-15	0
## 2016-05-27	-1.35180755478359e-15	0
## 2016-06-07	1	1
## 2016-06-08	-1.14619425062301e-15	0
## 2016-06-09	2.998	3
## 2016-06-13	3	3
## 2016-06-14	3.008	3
## 2016-06-17	-1.40465417075575e-15	0
## 2016-06-20	-1.09334763465085e-15	0
## 2016-06-21	1	1
## 2016-06-22	1	1
## 2016-06-23	2	2
## 2016-06-27	2.022	2
## 2016-07-25	-1.11199938146456e-15	0
## 2016-07-29	2	2
## 2016-08-03	-1.19637633133607e-15	0
## 2016-08-09	-9.03721542044877e-16	0
## 2016-08-12	1	1
## 2016-08-24	2.994	3
## 2016-08-29	1	1
## 2016-09-06	3	3
## 2016-09-12	1	1
## 2016-09-15	3	3
## 2016-09-16	3	3
## 2016-09-23	-1.17283960321402e-15	0
## 2016-09-26	-1.01385566608769e-15	0

## 2016-09-29	1	1
## 2016-10-03	-1.06492592522045e-15	0
## 2016-10-06	2	2
## 2016-10-11	3.998	4
## 2016-10-12	3.992	4
## 2016-10-25	3.996	4
## 2016-10-27	4	4
## 2016-10-28	4	4
## 2016-10-31	1	1
## 2016-11-02	1	1
## 2016-11-03	1	1
## 2016-11-04	0.00599999999999896	0
## 2016-11-07	-9.16600129130529e-16	0
## 2016-11-08	-9.82325332188339e-16	0
## 2016-11-17	-1.02273745028469e-15	0
## 2016-11-21	-9.2104102122903e-16	0
## 2016-11-25	2	2
## 2016-11-30	2.994	3
## 2016-12-02	3	3
## 2016-12-05	1.996	2
## 2016-12-08	2	2
## 2016-12-09	2	2
## 2016-12-14	1	1
## 2016-12-16	1	1
## 2017-01-12	1	1
## 2017-01-26	1.988	2
## 2017-02-02	4.99	5
## 2017-02-07	4.99	5
## 2017-02-14	7	7
## 2017-02-17	7	7
## 2017-02-24	7	7
## 2017-02-27	1.004	1
## 2017-02-28	1	1
## 2017-03-02	2	2
## 2017-03-07	1	1
## 2017-03-15	-1.06847863889925e-15	0
## 2017-03-21	6	6
## 2017-03-22	6	6
## 2017-03-31	0.998	1
## 2017-04-06	2	2
## 2017-04-13	2	2
## 2017-04-17	-1.11377573830396e-15	0
## 2017-04-18	1	1
## 2017-04-25	-1.00808250635964e-15	0
## 2017-05-02	1	1
## 2017-05-05	-1.10933484620546e-15	0
## 2017-05-08	2	2
## 2017-05-12	1	1
## 2017-05-18	1	1
## 2017-05-25	1	1

## 2017-05-30	-1.11510800593351e-15	0
## 2017-06-05	1	1
## 2017-06-09	1	1
## 2017-06-14	2	2
## 2017-06-22	-1.25277566098703e-15	0
## 2017-06-27	2	2
## 2017-07-05	1	1
## 2017-07-10	-1.07558406625685e-15	0
## 2017-07-11	-1.0547118733939e-15	0
## 2017-07-12	1	1
## 2017-07-14	1	1
## 2017-07-21	3.998	4
## 2017-07-24	3.946	4
## 2017-07-26	-1.04716235682645e-15	0
## 2017-07-27	-1.16529008664656e-15	0
## 2017-07-28	1	1
## 2017-07-31	1	1
## 2017-08-03	2	2
## 2017-08-10	2.996	3
## 2017-08-15	1	1
## 2017-08-25	1	1
## 2017-08-29	-1.12354570092066e-15	0
## 2017-08-30	1	1
## 2017-09-15	1	1
## 2017-09-25	4	4
## 2017-09-28	1.004	1
## 2017-10-02	-1.01607611213694e-15	0
## 2017-10-10	7	7
## 2017-10-16	7	7
## 2017-10-20	1	1
## 2017-10-31	2.988	3
## 2017-11-01	2.994	3
## 2017-11-02	3	3
## 2017-11-06	2.004	2
## 2017-11-15	1	1
## 2017-11-20	1	1
## 2017-11-21	1	1
## 2017-11-28	7.99	8
## 2017-11-29	7.99	8
## 2017-12-05	7.99	8
## 2017-12-06	7.99	8
## 2017-12-07	7.99	8
## 2017-12-11	-1.01696429055664e-15	0
## 2017-12-14	1	1
## 2017-12-18	3.982	4
## 2018-01-10	2	2
## 2018-01-12	1	1
## 2018-01-16	1	1
## 2018-01-17	1.996	2
## 2018-01-23	1	1

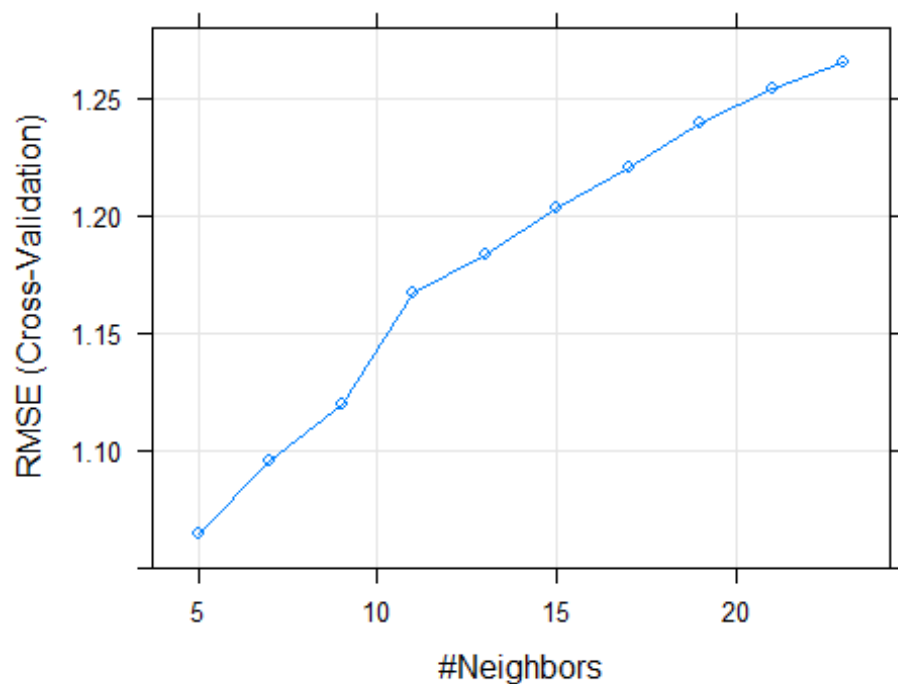
## 2018-01-25	-1.19326770686712e-15	0
## 2018-01-26	-1.36557432028894e-15	0
## 2018-01-31	-1.048494624456e-15	0
## 2018-02-01	2	2
## 2018-02-06	-1.10977893541531e-15	0
## 2018-02-26	4	4
## 2018-03-02	1	1
## 2018-03-06	-1.11288755988426e-15	0
## 2018-03-08	1	1
## 2018-03-09	-1.26076926676433e-15	0
## 2018-03-13	1	1
## 2018-03-15	7	7
## 2018-03-16	7	7
## 2018-03-26	1	1
## 2018-03-28	-1.00497388189069e-15	0
## 2018-04-03	-1.17061915716477e-15	0
## 2018-04-10	-1.18305365504057e-15	0
## 2018-04-17	3	3
## 2018-04-18	2.994	3
## 2018-04-20	3	3
## 2018-04-23	2	2
## 2018-04-30	1	1
## 2018-05-01	1	1
## 2018-05-02	1	1
## 2018-05-03	1	1
## 2018-05-09	2.98	3
## 2018-05-10	2.994	3
## 2018-05-16	-1.04716235682645e-15	0
## 2018-05-18	-1.31139543668723e-15	0
## 2018-05-22	1	1
## 2018-05-31	1	1
## 2018-06-06	2	2
## 2018-06-14	1	1
## 2018-06-15	1	1
## 2018-06-18	-1.0502709812954e-15	0
## 2018-06-28	-1.13997700168511e-15	0
## 2018-07-02	1	1
## 2018-07-03	1	1
## 2018-07-06	1	1
## 2018-07-10	1.996	2
## 2018-07-17	4.996	5
## 2018-07-19	5	5
## 2018-07-20	4.99	5
## 2018-07-26	3	3
## 2018-07-30	2.998	3
## 2018-08-01	-8.82849349181924e-16	0
## 2018-08-03	-1.10889075699561e-15	0
## 2018-08-06	2.004	2
## 2018-08-09	-6.20392626160537e-16	0
## 2018-08-13	1	1

## 2018-08-15	6	6
## 2018-08-22	6	6
## 2018-08-23	-1.26521015886283e-15	0
## 2018-08-29	1	1
## 2018-08-30	1	1
## 2018-08-31	2.996	3
## 2018-09-05	3	3
## 2018-09-18	1	1
## 2018-09-19	1	1
## 2018-09-21	2	2
## 2018-09-25	1	1
## 2018-09-28	2.994	3
## 2018-10-09	4.99	5
## 2018-10-16	2.982	3
## 2018-10-22	1.996	2
## 2018-10-29	2	2
## 2018-10-31	-1.09068309939175e-15	0
## 2018-11-05	-1.12487796855021e-15	0
## 2018-11-06	-1.20081722343457e-15	0
## 2018-11-08	2	2
## 2018-11-23	-1.28208554883713e-15	0
## 2018-11-26	1	1
## 2018-11-29	1	1
## 2018-12-10	-8.98836560736527e-16	0
## 2018-12-11	1	1
## 2018-12-14	2.996	3
## 2018-12-17	2.996	3
## 2018-12-18	3	3
## 2018-12-21	1.996	2
## 2018-12-28	1	1
## 2019-01-02	2	2
## 2019-01-08	-9.65894031423886e-16	0
## 2019-01-09	1	1
## 2019-01-11	1	1
## 2019-01-14	0.998	1
## 2019-01-15	-9.87654402706539e-16	0
## 2019-01-16	-8.77520278663724e-16	0
## 2019-01-17	0.001999999999999903	0
## 2019-01-29	2	2
## 2019-01-30	1	1
## 2019-02-05	3	3
## 2019-02-12	2	2
## 2019-02-19	2.994	3
## 2019-02-21	3	3
## 2019-02-25	10.0169	10
## 2019-02-26	10.0127333333333	10
## 2019-02-28	10.0441666666667	10
## 2019-03-05	10.0387666666667	10
## 2019-03-06	9.99833333333333	10
## 2019-03-18	3	3

## 2019-03-28	1	1
## 2019-04-01	-9.87654402706539e-16	0
## 2019-04-12	2.998	3
## 2019-04-16	-9.43689570931383e-16	0
## 2019-04-22	0.00599999999999908	0
## 2019-04-24	1	1
## 2019-04-26	-9.51239087498834e-16	0
## 2019-04-30	1.992	2
## 2019-05-01	2	2
## 2019-05-10	2.99	3
## 2019-05-14	-1.0715872633682e-15	0
## 2019-05-21	2	2
## 2019-06-11	1	1
## 2019-06-17	-1.10356168647741e-15	0
## 2019-06-24	1	1
## 2019-06-26	0.01599999999999993	0
## 2019-07-09	0.01399999999999994	0
## 2019-07-11	0.003999999999999937	0
## 2019-07-15	1	1
## 2019-07-17	4	4
## 2019-07-18	4	4
## 2019-07-24	1	1
## 2019-08-02	1	1
## 2019-08-06	-1.05160324892495e-15	0
## 2019-08-07	-1.06625819285e-15	0
## 2019-08-13	3	3
## 2019-08-15	-1.18838272555877e-15	0
## 2019-08-19	2.008	2
## 2019-08-28	-1.06936681731895e-15	0
## 2019-08-30	3	3
## 2019-09-10	-1.01252339845814e-15	0
## 2019-09-11	-7.8204109854596e-16	0
## 2019-09-18	6	6
## 2019-09-19	6	6
## 2019-09-30	-1.03650421579005e-15	0
## 2019-10-03	2	2
## 2019-10-07	3.998	4
## 2019-10-08	4	4
## 2019-10-11	-1.27009514017118e-15	0
## 2019-10-15	-1.08180131519475e-15	0
## 2019-10-21	-1.09956488358876e-15	0
## 2019-10-22	2	2
## 2019-10-24	2	2
## 2019-10-25	-1.21413989973007e-15	0
## 2019-11-04	4	4
## 2019-11-11	3	3
## 2019-11-19	2.996	3
## 2019-11-21	2.996	3
## 2019-11-26	-9.84545778237589e-16	0
## 2019-12-03	-1.06403774680075e-15	0

```
## 2019-12-04          4.99    5
## 2019-12-05           5     5
## 2019-12-06           5     5
## 2019-12-12 -1.14264153694421e-15    0
## 2019-12-16 -1.06581410364015e-15    0
## 2019-12-17 -1.0325074129014e-15    0
## 2020-01-03          2.998    3
## 2020-01-10 -1.00719432793994e-15    0
## 2020-01-15  0.00599999999999914    0
## 2020-01-17           2     2
## 2020-01-21          1.996    2
## 2020-01-22 -9.05941988094128e-16    0
## 2020-01-29          3.004    3
## 2020-02-04 -1.0902390101819e-15    0
## 2020-02-11 -1.01252339845814e-15    0
## 2020-02-19          2.996    3
## 2020-02-24           2     2
## 2020-03-03           1     1
## 2020-03-04           3     3
## results              0.3  100
```

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




```

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

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

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

predGLM <- predict(glmMod, testingSet)

length=length(testingSet$decrDaysThisCycle)

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

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

accuracy_KNN <- sumKNN/length
accuracy_RPART <- sumRPart/length

accuracy_GLM <- sumGLM/length

predDF2 <- data.frame(predRF,predKNN,predRPART,predGLM,
                      TYPE=testingSet$decrDaysThisCycle)
colnames(predDF2) <- c('RandomForest', 'KNN', 'Rpart', 'GLM', 'TrueValue')

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', 'TrueValue')
Results <- rbind(predDF2, results)
Results

```

##	RandomForest	KNN	Rpart	GLM
## 2012-03-06	3.99	5.2	4	4.41654819611789
## 2012-03-09	3.982	3.2	4	3.89724852476453
## 2012-03-13	3	2.4	3	3.28791137748239
## 2012-03-14	3	4	3	3.92381667125139
## 2012-03-20	1	1	1	1.12106526722855
## 2012-03-23	1	1.2	1	1.3072109671944
## 2012-04-04	3	4.2	3	3.69993196664257
## 2012-04-10	1	1.2	1	1.41266916574652
## 2012-04-26	-1.15818465928896e-15	0	0	-0.452819764655824
## 2012-05-04	-1.25410792861658e-15	0	0	-0.554119880886433
## 2012-05-17	1.998	3.2	2	3.22495659139115
## 2012-05-21	1.006	1	1	1.63595830445111

## 2012-05-30	3	2.8	3	3.43029352951083
## 2012-06-08	1	0.4	1	1.2030631348265
## 2012-06-12	-8.33555446888568e-16	0	0	-0.224021690889782
## 2012-06-13	-9.34363697524532e-16	0.2	0	-0.135159530048213
## 2012-06-14	-9.52571355128384e-16	0	0	0.0103222746595462
## 2012-06-19	1.994	0.6	2	3.35783284748428
## 2012-07-02	-1.0405010186787e-15	0	0	-0.439371581453153
## 2012-07-10	3.998	5.4	4	4.40282230073301
## 2012-07-13	2	2.8	2	3.51617750602203
## 2012-07-19	-1.16928688953521e-15	0	0	-0.664651493186763
## 2012-07-20	4.996	5.4	5	4.06308645730994
## 2012-07-30	2	2.2	2	3.11910981780276
## 2012-07-31	2	2.6	2	3.40341493741573
## 2012-08-01	1.994	3.6	2	3.26500853831038
## 2012-08-09	1	1	1	1.39734533852713
## 2012-08-14	8	5.4	7.45238095238095	4.69914292426322
## 2012-08-17	8	6.6	7.45238095238095	4.55468469253308
## 2012-08-20	8	6.8	7.45238095238095	4.68048979687643
## 2012-08-27	1.996	3.2	2	3.47423631712925
## 2012-08-28	2	1.8	2	3.37990725867635
## 2012-08-29	1	0.4	1	1.10848836991716
## 2012-08-31	-1.25943699913478e-15	0	0	-0.290123002320069
## 2012-09-06	2	2.8	2	3.36041763560902
## 2012-09-13	2	1.8	2	3.17715939907413
## 2012-09-14	2	1.6	2	3.05302074938274
## 2012-09-18	1.996	2.4	2	2.72437328063717
## 2012-09-20	-1.30384592011978e-15	0	0	-0.547929664495428
## 2012-09-24	2	2.2	2	3.50735270789961
## 2012-09-25	2	2.4	2	2.64135462630274
## 2012-09-26	-1.15196741035106e-15	0	0	-0.476404268753255
## 2012-10-02	1	1	1	1.11271481626609
## 2012-10-11	1	1	1	1.70787648017067
## 2012-10-16	1	1	1	1.44332780534918
## 2012-10-17	4	3.8	4	4.02144904137939
## 2012-10-18	4	7.4	4	4.422368588763
## 2012-10-25	2	4	2	3.45908000045449
## 2012-11-02	4	2.6	4	4.58871996572467
## 2012-11-06	3.97	5	4	3.93843484287195
## 2012-11-07	2.998	3.4	3	3.6695998390939
## 2012-11-12	3	2	3	3.51511012859404
## 2012-11-14	1.002	1	1	1.31922237408604
## 2012-11-20	1.012	0.6	1	1.59730544888093
## 2012-12-04	2.988	3	3	3.92688484464847
## 2012-12-05	2.998	3	3	3.87711082404679
## 2012-12-06	3	2.8	3	3.5492686145114
## 2012-12-17	3	4.4	3	3.96462336154769
## 2012-12-18	3	2.6	3	3.2493887516163
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## 2012-12-24	1	1.2	1	1.29720854845336

## 2012-12-31	1	1.2	1	1.28690881525869
## 2013-01-04	3	2.2	3	3.34142308035963
## 2013-01-08	2.996	3	3	3.9251373047454
## 2013-01-09	3	2.4	3	3.46195395117891
## 2013-01-16	4.99	6	5	4.55818772251961
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## 2013-01-22	1.004	1.2	1	1.21916509194044
## 2013-01-25	3	4.2	3	3.49987670548488
## 2013-01-31	2	2.8	2	3.11265973244273
## 2013-02-22	2	2.8	2	3.00001391212326
## 2013-02-25	2	2.6	2	3.51298382652468
## 2013-02-26	1.994	2.6	2	2.7358736684979
## 2013-03-01	-1.28652644093563e-15	0	0	-0.504043024568033
## 2013-03-04	2.006	1.4	2	3.08588902352154
## 2013-03-06	1.996	3.4	2	2.62994757687873
## 2013-03-25	5.98	2.6	6	3.80921695414651
## 2013-03-26	-1.0653700144303e-15	0	0	-0.580968295408387
## 2013-03-27	3	4	3	3.45649675505754
## 2013-04-05	2	2.4	2	2.80824264230336
## 2013-04-10	-1.17150733558447e-15	0	0	-0.593473503140289
## 2013-04-11	-1.30384592011978e-15	0	0	-0.534158530853193
## 2013-04-17	1	1	1	1.64124657980014
## 2013-04-19	2.996	5	3	3.72574453979792
## 2013-04-24	3	4	3	3.1080536132497
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## 2013-05-13	1	1	1	1.34775173978214
## 2013-05-14	1	1	1	1.60520467075252
## 2013-05-17	-1.28475008409623e-15	0	0	-0.497865005738585
## 2013-05-20	-1.12976294985856e-15	0	0	-0.446813985969121
## 2013-06-06	-1.29052324382428e-15	0	0	-0.519068632067185
## 2013-06-10	3	3.2	3	3.86387923977987
## 2013-06-12	3	3	3	3.02066206178617
## 2013-06-14	-1.37934108579429e-15	0	0	-0.517185160848975
## 2013-06-17	1	1	1	1.4709283607648
## 2013-06-25	-1.05693231944315e-15	0	0	-0.25960613011768
## 2013-06-28	1	1	1	1.6503808180208
## 2013-07-10	1	1	1	1.04046512606865
## 2013-07-11	-9.96536186903541e-16	0	0	-0.466507704347712
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## 2013-07-24	2.996	2.8	3	3.08337359914447
## 2013-07-25	-1.15996101612836e-15	0	0	-0.612189944789337
## 2013-07-29	1	1	1	1.40719309213059
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## 2013-09-09	1	1.4	1	0.951629562107645
## 2013-09-12	3	2.8	3	3.46119901868491

## 2013-09-16	3	2.4	3	3.11037841387591
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## 2013-10-14	1	0.6	1	1.23676844006343
## 2013-10-16	1	1.6	1	1.39959736035232
## 2013-10-22	3	4.2	3	3.08904515564585
## 2013-10-28	2	3.6	2	2.63393195861932
## 2013-10-31	1	1.2	1	1.41166774116698
## 2013-11-05	2	2.2	2	2.27184507069297
## 2013-11-08	1	1.2	1	1.5201163914207
## 2013-11-11	0.998	1.6	1	1.10651410139173
## 2013-11-13	-1.00230934663159e-15	0.2	0	-0.713460189106234
## 2013-11-15	2.988	2.6	3	2.76969837650424
## 2013-11-18	2.992	3.2	3	3.12307029779369
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## 2013-11-27	3	2.6	3	3.48471996118792
## 2013-12-10	1	1.2	1	1.03783813162165
## 2013-12-23	1	0.4	1	1.18927852266693
## 2013-12-26	1	1.2	1	1.22594334351813
## 2014-01-15	1	1	1	0.627525688731033
## 2014-01-22	4.988	3	5	3.81435133978871
## 2014-01-28	1	1.2	1	1.15207599710359
## 2014-01-29	1	1.4	1	0.798322785085855
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## 2014-02-24	-3.43725048423948e-16	0	0	-0.441892420943152
## 2014-02-27	1	0.2	1	1.2107514242155
## 2014-03-03	-3.71702668644502e-16	0.2	0	-0.720860877989637
## 2014-03-11	3	3.8	3	2.83881705605336
## 2014-03-19	6	2.8	6	3.5312188756809
## 2014-03-20	6	2.8	6	3.7545226618541
## 2014-03-21	6	3.4	6	3.85321691565984
## 2014-03-24	6	3.2	6	3.78514865471534
## 2014-03-26	6	2.6	6	3.51269562094291
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## 2014-04-01	3	3	3	2.76709574142933
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## 2014-04-09	2	1.8	2	2.0728190829934
## 2014-04-11	2	1.6	2	2.27389773690405
## 2014-04-14	-1.06581410364015e-15	0	0	-0.671913693383352
## 2014-04-25	4	2.8	4	3.70252252870452
## 2014-05-01	1	1.6	1	1.28270050421987
## 2014-05-05	1	0.8	1	0.753872811974462
## 2014-05-13	2	3.2	2	3.02716809235263
## 2014-05-19	-9.40136857252583e-16	0	0	-0.258379429571149

## 2014-05-20	-1.05782049786285e-15	0	0	-0.388095325008374
## 2014-05-21	-1.03828057262945e-15	0	0	-0.134402246536188
## 2014-05-28		1	1.2	1.5298606441995
## 2014-05-29		2	1.6	2.92178496510371
## 2014-05-30		2	2.4	2.85143332596339
## 2014-06-02		2	3	2.48145217859519
## 2014-06-05	-1.14841469667226e-15	0	0	-0.815490617454947
## 2014-06-06	-1.32072131009409e-15	0	0	-0.784788701433568
## 2014-06-16		1	1.8	0.782563780792834
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## 2014-08-08		1	1.4	1.22765028997302
## 2014-08-12	1.008	1	1	2.16586333129073
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## 2014-09-11		5	3	4.00811107098575
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## 2014-09-25		1	1.4	0.884564656318213
## 2014-09-26		3	2.4	3.29023076311552
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## 2014-10-06	1.992	3	2	3.01792286166821
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## 2014-11-04		2	3.4	2.82492947819927
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## 2014-12-09		1	1	1.49224850247813
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## 2014-12-26	2.006	1.8	2	2.46118573755588
## 2014-12-30	-1.16573417585641e-15	0	0	-0.657146169543687
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##	2015-03-06	2.99	4.8	3	3.61502029330507
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##	2015-04-06	1	1	1	1.35737582096745
##	2015-04-17	3	3.6	3	3.71482067168454
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##	2015-05-14	7	6	7.45238095238095	4.33586918074476
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##	2015-05-29	1	1	1	1.3318075568755
##	2015-06-03	2	2.6	2	3.16032939683289
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##	2015-06-22	-1.0413891970984e-15	0	0	-0.599594471336859
##	2015-06-25	4	5.8	4	4.17336318583298
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##	2015-06-29	4	2.4	4	3.70440275125594
##	2015-06-30	7	3.4	7.45238095238095	4.18057695740625
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## 2016-02-18	0.998	1	1	1.22939480758066
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## 2016-06-13	3	3.2	3	3.92236533838637
## 2016-06-14	3.008	3.4	3	3.31201712768255
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## 2016-06-27	2.022	2	2	2.86742446668696
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## 2016-09-12	1	1.4	1	1.60534741136246
## 2016-09-15	3	2.8	3	3.34071260431028
## 2016-09-16	3	4.4	3	3.76522671169872
## 2016-09-23	-1.17283960321402e-15	0	0	-0.565999344810252
## 2016-09-26	-1.01385566608769e-15	0	0	-0.346415185219791
## 2016-09-29	1	1.2	1	1.09711637319311
## 2016-10-03	-1.06492592522045e-15	0	0	-0.55988363404725
## 2016-10-06	2	2.6	2	3.23905214531117
## 2016-10-11	3.998	4	4	4.16261230592196
## 2016-10-12	3.992	5.4	4	4.1150381645739
## 2016-10-25	3.996	4	4	4.24483557218366
## 2016-10-27	4	5.6	4	4.2832870377778
## 2016-10-28	4	4.6	4	3.80638661472033
## 2016-10-31	1	1	1	1.72437670458993
## 2016-11-02	1	1	1	1.57049487852435
## 2016-11-03	1	1	1	1.13384486040548
## 2016-11-04	0.00599999999999896	0	0	-0.445759507380802
## 2016-11-07	-9.16600129130529e-16	0	0	-0.483595387249634
## 2016-11-08	-9.82325332188339e-16	0	0	-0.594550039704426
## 2016-11-17	-1.02273745028469e-15	0	0	-0.383445786832032
## 2016-11-21	-9.2104102122903e-16	0	0	-0.415883709552039
## 2016-11-25	2	2	2	3.31076438091511
## 2016-11-30	2.994	3	3	3.68788706607299
## 2016-12-02	3	3.8	3	3.28300215914248
## 2016-12-05	1.996	2.4	2	3.17521114901559
## 2016-12-08	2	2.2	2	3.14396579110814
## 2016-12-09	2	2.2	2	3.28473805192311
## 2016-12-14	1	1.2	1	1.01477959264282
## 2016-12-16	1	1	1	1.44588267464637
## 2017-01-12	1	1	1	1.24824195032955
## 2017-01-26	1.988	2.2	2	3.42124417847452

## 2017-02-02	4.99	5.6	5	4.34839063413659
## 2017-02-07	4.99	4.4	5	4.33851816925335
## 2017-02-14	7	3	7.45238095238095	4.26410258450543
## 2017-02-17	7	5.6	7.45238095238095	4.50988888051932
## 2017-02-24	7	4.6	7.45238095238095	4.00625968191927
## 2017-02-27	1.004	1	1	1.69136040962035
## 2017-02-28	1	1.2	1	1.35957865945291
## 2017-03-02	2	2.2	2	3.29984221805072
## 2017-03-07	1	1.2	1	1.40625592279552
## 2017-03-15	-1.06847863889925e-15	0	0	-0.645292581668944
## 2017-03-21	6	4.8	6	4.47493794712955
## 2017-03-22	6	5.2	6	4.40426169350396
## 2017-03-31	0.998	1	1	1.73061840679351
## 2017-04-06	2	2	2	2.92122004414111
## 2017-04-13	2	2	2	2.58900361704803
## 2017-04-17	-1.11377573830396e-15	0	0	-0.578129958856736
## 2017-04-18	1	1.2	1	1.42889999145614
## 2017-04-25	-1.00808250635964e-15	0	0	-0.211640765059114
## 2017-05-02	1	1.2	1	1.33099774442706
## 2017-05-05	-1.10933484620546e-15	0	0	-0.59276380041993
## 2017-05-08	2	2.2	2	2.87033415972213
## 2017-05-12	1	1	1	1.41308199106182
## 2017-05-18	1	1	1	1.69883382254134
## 2017-05-25	1	1	1	1.6894716878383
## 2017-05-30	-1.11510800593351e-15	0	0	-0.572592449266735
## 2017-06-05	1	1.2	1	1.66482757298995
## 2017-06-09	1	1	1	1.46228705040909
## 2017-06-14	2	2.4	2	2.77847529454462
## 2017-06-22	-1.25277566098703e-15	0	0	-0.531029844650069
## 2017-06-27	2	3	2	2.8693272804054
## 2017-07-05	1	1.2	1	1.36903829074826
## 2017-07-10	-1.07558406625685e-15	0	0	-0.425411024400799
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## 2017-07-24	3.946	3	4	3.61389011665033
## 2017-07-26	-1.04716235682645e-15	0	0	-0.55490126479967
## 2017-07-27	-1.16529008664656e-15	0	0	-0.539562715388216
## 2017-07-28	1	1	1	1.50190541324054
## 2017-07-31	1	1	1	1.40957532070242
## 2017-08-03	2	2.4	2	3.4106804723061
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## 2017-08-15	1	1.2	1	1.22677066773282
## 2017-08-25	1	1	1	1.67777569804603
## 2017-08-29	-1.12354570092066e-15	0	0	-0.656350202520741
## 2017-08-30	1	1	1	1.33600748636952
## 2017-09-15	1	1	1	1.66402315679045
## 2017-09-25	4	5.6	4	4.24426605606496
## 2017-09-28	1.004	1.2	1	1.42934841507725

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##	2017-10-20	1	1	1	1.56556017623913
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##	2017-11-01	2.994	3.6	3	3.6896745032387
##	2017-11-02	3	3.2	3	3.13963917464431
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##	2017-11-15	1	1.2	1	0.996220085144677
##	2017-11-20	1	1	1	1.38683722382402
##	2017-11-21	1	1	1	0.917810922744353
##	2017-11-28	7.99	2.8	7.45238095238095	3.99673790159182
##	2017-11-29	7.99	3.2	7.45238095238095	4.29558696981531
##	2017-12-05	7.99	5	7.45238095238095	4.32366787639616
##	2017-12-06	7.99	4.8	7.45238095238095	4.31740668757388
##	2017-12-07	7.99	4.8	7.45238095238095	4.4229130784256
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##	2018-01-10	2	1.8	2	2.48360019215638
##	2018-01-12	1	1	1	1.23823897209457
##	2018-01-16	1	1.2	1	1.17647130828878
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##	2018-01-26	-1.36557432028894e-15	0	0	-0.617089704656883
##	2018-01-31	-1.048494624456e-15	0	0	-0.524053001436448
##	2018-02-01	2	1.6	2	2.76171652458328
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## 2018-05-10	2.994	4.2	3	3.33943911316523
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## 2018-06-06	2	2.4	2	3.1855887664717
## 2018-06-14	1	1	1	1.62092073722665
## 2018-06-15	1	1	1	1.11767075449655
## 2018-06-18	-1.0502709812954e-15	0	0	-0.621763423066113
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## 2018-07-02	1	1	1	1.42908815691594
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## 2018-07-06	1	1	1	1.27214178923845
## 2018-07-10	1.996	2.6	2	3.28633379442436
## 2018-07-17	4.996	2.6	5	3.95283458410252
## 2018-07-19	5	3.6	5	4.36874728432795
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## 2018-07-26	3	2.8	3	3.13301150618147
## 2018-07-30	2.998	4	3	3.80216560338853
## 2018-08-01	-8.82849349181924e-16	0	0	-0.59668158778684
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## 2018-08-06	2.004	3	2	2.98145553558908
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## 2018-08-29	1	1	1	1.567410101574
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## 2018-09-05	3	2.8	3	3.67758473537019
## 2018-09-18	1	0.2	1	1.46150444493404
## 2018-09-19	1	1.2	1	1.43547370081084
## 2018-09-21	2	3.4	2	3.13659256609322
## 2018-09-25	1	1	1	1.49635910307683
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## 2018-12-17	2.996	3.2	3	3.8679823979329
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## 2018-12-21	1.996	2.4	2	2.61115409972279
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## 2019-01-11	1	1	1	1.72930381874855
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## 2019-01-30	1	1	1	1.65675593085495
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## 2019-02-19	2.994	3.2	3	3.66120127883642
## 2019-02-21	3	2.6	3	3.24972054244244
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## 2019-03-05	10.0387666666667	4.6	10	4.437445295373
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## 2019-06-11	1	1.2	1	1.43131575726032
## 2019-06-17	-1.10356168647741e-15	0	0	-0.501384553875442
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## 2019-07-11	0.00399999999999937	0.2	0	1.01596214038392
## 2019-07-15	1	1	1	1.31330186180311
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## 2019-08-06	-1.05160324892495e-15	0	0	-0.596770758380459
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## 2019-10-03	2	2	2	2.79627018581433
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## 2019-11-04	4	5.2	4	4.24693419015377
## 2019-11-11	3	3	3	3.37519619128576
## 2019-11-19	2.996	2.8	3	3.79313869686167
## 2019-11-21	2.996	2.2	3	3.33776025059522
## 2019-11-26	-9.84545778237589e-16	0	0	-0.652870002483667
## 2019-12-03	-1.06403774680075e-15	0	0	-0.599845018318707
## 2019-12-04	4.99	3	5	3.9195701464142
## 2019-12-05	5	5.6	5	4.46355301159637
## 2019-12-06	5	5.6	5	4.4644051392085
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## 2019-12-16	-1.06581410364015e-15	0	0	-0.36384511068123
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## 2020-01-21	1.996	2.4	2	2.54416675338581
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## 2020-02-11	-1.01252339845814e-15	0	0	-0.544615430146924
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## 2020-02-24	2	2.2	2	2.94790519809786
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## 2012-08-01	2
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## 2012-09-20	0
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## 2012-09-25	2
## 2012-09-26	0
## 2012-10-02	1
## 2012-10-11	1
## 2012-10-16	1
## 2012-10-17	4
## 2012-10-18	4
## 2012-10-25	2
## 2012-11-02	4
## 2012-11-06	4
## 2012-11-07	3
## 2012-11-12	3
## 2012-11-14	1
## 2012-11-20	1
## 2012-12-04	3

## 2012-12-05	3
## 2012-12-06	3
## 2012-12-17	3
## 2012-12-18	3
## 2012-12-19	0
## 2012-12-21	1
## 2012-12-24	1
## 2012-12-31	1
## 2013-01-04	3
## 2013-01-08	3
## 2013-01-09	3
## 2013-01-16	5
## 2013-01-18	1
## 2013-01-22	1
## 2013-01-25	3
## 2013-01-31	2
## 2013-02-22	2
## 2013-02-25	2
## 2013-02-26	2
## 2013-03-01	0
## 2013-03-04	2
## 2013-03-06	2
## 2013-03-25	6
## 2013-03-26	0
## 2013-03-27	3
## 2013-04-05	2
## 2013-04-10	0
## 2013-04-11	0
## 2013-04-17	1
## 2013-04-19	3
## 2013-04-24	3
## 2013-05-03	4
## 2013-05-13	1
## 2013-05-14	1
## 2013-05-17	0
## 2013-05-20	0
## 2013-06-06	0
## 2013-06-10	3
## 2013-06-12	3
## 2013-06-14	0
## 2013-06-17	1
## 2013-06-25	0
## 2013-06-28	1
## 2013-07-10	1
## 2013-07-11	0
## 2013-07-15	1
## 2013-07-24	3
## 2013-07-25	0
## 2013-07-29	1
## 2013-08-09	1

## 2013-08-13	2
## 2013-08-21	0
## 2013-08-26	2
## 2013-09-04	0
## 2013-09-05	0
## 2013-09-09	1
## 2013-09-12	3
## 2013-09-16	3
## 2013-09-25	3
## 2013-09-27	3
## 2013-10-03	0
## 2013-10-09	3
## 2013-10-10	0
## 2013-10-11	0
## 2013-10-14	1
## 2013-10-16	1
## 2013-10-22	3
## 2013-10-28	2
## 2013-10-31	1
## 2013-11-05	2
## 2013-11-08	1
## 2013-11-11	1
## 2013-11-13	0
## 2013-11-15	3
## 2013-11-18	3
## 2013-11-20	3
## 2013-11-26	3
## 2013-11-27	3
## 2013-12-10	1
## 2013-12-23	1
## 2013-12-26	1
## 2014-01-15	1
## 2014-01-22	5
## 2014-01-28	1
## 2014-01-29	1
## 2014-01-31	1
## 2014-02-03	1
## 2014-02-24	0
## 2014-02-27	1
## 2014-03-03	0
## 2014-03-11	3
## 2014-03-19	6
## 2014-03-20	6
## 2014-03-21	6
## 2014-03-24	6
## 2014-03-26	6
## 2014-03-31	0
## 2014-04-01	3
## 2014-04-08	0
## 2014-04-09	2

## 2014-04-11	2
## 2014-04-14	0
## 2014-04-25	4
## 2014-05-01	1
## 2014-05-05	1
## 2014-05-13	2
## 2014-05-19	0
## 2014-05-20	0
## 2014-05-21	0
## 2014-05-28	1
## 2014-05-29	2
## 2014-05-30	2
## 2014-06-02	2
## 2014-06-05	0
## 2014-06-06	0
## 2014-06-16	1
## 2014-06-17	0
## 2014-06-24	1
## 2014-07-08	3
## 2014-07-14	3
## 2014-07-18	1
## 2014-07-29	0
## 2014-08-04	2
## 2014-08-05	2
## 2014-08-08	1
## 2014-08-12	1
## 2014-08-14	0
## 2014-08-18	0
## 2014-08-22	0
## 2014-08-25	1
## 2014-09-02	2
## 2014-09-05	2
## 2014-09-09	2
## 2014-09-11	5
## 2014-09-23	0
## 2014-09-25	1
## 2014-09-26	3
## 2014-09-30	3
## 2014-10-01	3
## 2014-10-02	0
## 2014-10-06	2
## 2014-10-09	3
## 2014-10-15	0
## 2014-10-16	0
## 2014-10-21	2
## 2014-10-29	1
## 2014-11-04	2
## 2014-11-07	1
## 2014-11-14	3
## 2014-11-18	3

## 2014-12-08	2
## 2014-12-09	1
## 2014-12-10	1
## 2014-12-22	1
## 2014-12-26	2
## 2014-12-30	0
## 2014-12-31	0
## 2015-01-22	0
## 2015-02-09	2
## 2015-02-18	2
## 2015-02-26	0
## 2015-03-06	3
## 2015-03-09	3
## 2015-03-18	3
## 2015-03-23	0
## 2015-03-30	2
## 2015-04-01	2
## 2015-04-06	1
## 2015-04-17	3
## 2015-04-21	0
## 2015-04-22	1
## 2015-04-28	0
## 2015-05-06	3
## 2015-05-12	7
## 2015-05-13	7
## 2015-05-14	7
## 2015-05-15	7
## 2015-05-18	7
## 2015-05-29	1
## 2015-06-03	2
## 2015-06-10	4
## 2015-06-15	1
## 2015-06-17	1
## 2015-06-22	0
## 2015-06-25	4
## 2015-06-26	4
## 2015-06-29	4
## 2015-06-30	7
## 2015-07-07	7
## 2015-07-08	7
## 2015-07-09	7
## 2015-07-10	7
## 2015-07-14	1
## 2015-07-28	4
## 2015-07-29	4
## 2015-07-31	1
## 2015-08-03	1
## 2015-08-06	3
## 2015-08-12	1
## 2015-08-13	1

## 2015-08-17	6
## 2015-08-18	6
## 2015-08-25	6
## 2015-09-01	1
## 2015-09-04	1
## 2015-09-10	2
## 2015-09-17	9
## 2015-09-29	9
## 2015-10-05	1
## 2015-10-06	1
## 2015-10-08	0
## 2015-10-09	3
## 2015-10-19	3
## 2015-10-23	0
## 2015-10-27	2
## 2015-10-28	2
## 2015-11-20	1
## 2015-12-01	0
## 2015-12-03	3
## 2015-12-08	1
## 2015-12-15	3
## 2015-12-16	3
## 2015-12-22	0
## 2015-12-23	0
## 2015-12-30	1
## 2015-12-31	11
## 2016-01-06	11
## 2016-01-15	11
## 2016-01-19	11
## 2016-01-26	2
## 2016-01-27	2
## 2016-02-03	2
## 2016-02-04	5
## 2016-02-05	5
## 2016-02-10	5
## 2016-02-18	1
## 2016-02-19	0
## 2016-02-24	2
## 2016-02-25	0
## 2016-03-04	1
## 2016-03-11	0
## 2016-03-15	1
## 2016-03-16	0
## 2016-03-23	4
## 2016-03-24	1
## 2016-03-31	2
## 2016-04-07	2
## 2016-04-08	2
## 2016-04-14	0
## 2016-04-25	1

## 2016-04-26	3
## 2016-05-04	2
## 2016-05-10	2
## 2016-05-19	2
## 2016-05-23	1
## 2016-05-24	0
## 2016-05-27	0
## 2016-06-07	1
## 2016-06-08	0
## 2016-06-09	3
## 2016-06-13	3
## 2016-06-14	3
## 2016-06-17	0
## 2016-06-20	0
## 2016-06-21	1
## 2016-06-22	1
## 2016-06-23	2
## 2016-06-27	2
## 2016-07-25	0
## 2016-07-29	2
## 2016-08-03	0
## 2016-08-09	0
## 2016-08-12	1
## 2016-08-24	3
## 2016-08-29	1
## 2016-09-06	3
## 2016-09-12	1
## 2016-09-15	3
## 2016-09-16	3
## 2016-09-23	0
## 2016-09-26	0
## 2016-09-29	1
## 2016-10-03	0
## 2016-10-06	2
## 2016-10-11	4
## 2016-10-12	4
## 2016-10-25	4
## 2016-10-27	4
## 2016-10-28	4
## 2016-10-31	1
## 2016-11-02	1
## 2016-11-03	1
## 2016-11-04	0
## 2016-11-07	0
## 2016-11-08	0
## 2016-11-17	0
## 2016-11-21	0
## 2016-11-25	2
## 2016-11-30	3
## 2016-12-02	3

## 2016-12-05	2
## 2016-12-08	2
## 2016-12-09	2
## 2016-12-14	1
## 2016-12-16	1
## 2017-01-12	1
## 2017-01-26	2
## 2017-02-02	5
## 2017-02-07	5
## 2017-02-14	7
## 2017-02-17	7
## 2017-02-24	7
## 2017-02-27	1
## 2017-02-28	1
## 2017-03-02	2
## 2017-03-07	1
## 2017-03-15	0
## 2017-03-21	6
## 2017-03-22	6
## 2017-03-31	1
## 2017-04-06	2
## 2017-04-13	2
## 2017-04-17	0
## 2017-04-18	1
## 2017-04-25	0
## 2017-05-02	1
## 2017-05-05	0
## 2017-05-08	2
## 2017-05-12	1
## 2017-05-18	1
## 2017-05-25	1
## 2017-05-30	0
## 2017-06-05	1
## 2017-06-09	1
## 2017-06-14	2
## 2017-06-22	0
## 2017-06-27	2
## 2017-07-05	1
## 2017-07-10	0
## 2017-07-11	0
## 2017-07-12	1
## 2017-07-14	1
## 2017-07-21	4
## 2017-07-24	4
## 2017-07-26	0
## 2017-07-27	0
## 2017-07-28	1
## 2017-07-31	1
## 2017-08-03	2
## 2017-08-10	3

## 2017-08-15	1
## 2017-08-25	1
## 2017-08-29	0
## 2017-08-30	1
## 2017-09-15	1
## 2017-09-25	4
## 2017-09-28	1
## 2017-10-02	0
## 2017-10-10	7
## 2017-10-16	7
## 2017-10-20	1
## 2017-10-31	3
## 2017-11-01	3
## 2017-11-02	3
## 2017-11-06	2
## 2017-11-15	1
## 2017-11-20	1
## 2017-11-21	1
## 2017-11-28	8
## 2017-11-29	8
## 2017-12-05	8
## 2017-12-06	8
## 2017-12-07	8
## 2017-12-11	0
## 2017-12-14	1
## 2017-12-18	4
## 2018-01-10	2
## 2018-01-12	1
## 2018-01-16	1
## 2018-01-17	2
## 2018-01-23	1
## 2018-01-25	0
## 2018-01-26	0
## 2018-01-31	0
## 2018-02-01	2
## 2018-02-06	0
## 2018-02-26	4
## 2018-03-02	1
## 2018-03-06	0
## 2018-03-08	1
## 2018-03-09	0
## 2018-03-13	1
## 2018-03-15	7
## 2018-03-16	7
## 2018-03-26	1
## 2018-03-28	0
## 2018-04-03	0
## 2018-04-10	0
## 2018-04-17	3
## 2018-04-18	3

## 2018-04-20	3
## 2018-04-23	2
## 2018-04-30	1
## 2018-05-01	1
## 2018-05-02	1
## 2018-05-03	1
## 2018-05-09	3
## 2018-05-10	3
## 2018-05-16	0
## 2018-05-18	0
## 2018-05-22	1
## 2018-05-31	1
## 2018-06-06	2
## 2018-06-14	1
## 2018-06-15	1
## 2018-06-18	0
## 2018-06-28	0
## 2018-07-02	1
## 2018-07-03	1
## 2018-07-06	1
## 2018-07-10	2
## 2018-07-17	5
## 2018-07-19	5
## 2018-07-20	5
## 2018-07-26	3
## 2018-07-30	3
## 2018-08-01	0
## 2018-08-03	0
## 2018-08-06	2
## 2018-08-09	0
## 2018-08-13	1
## 2018-08-15	6
## 2018-08-22	6
## 2018-08-23	0
## 2018-08-29	1
## 2018-08-30	1
## 2018-08-31	3
## 2018-09-05	3
## 2018-09-18	1
## 2018-09-19	1
## 2018-09-21	2
## 2018-09-25	1
## 2018-09-28	3
## 2018-10-09	5
## 2018-10-16	3
## 2018-10-22	2
## 2018-10-29	2
## 2018-10-31	0
## 2018-11-05	0
## 2018-11-06	0

## 2018-11-08	2
## 2018-11-23	0
## 2018-11-26	1
## 2018-11-29	1
## 2018-12-10	0
## 2018-12-11	1
## 2018-12-14	3
## 2018-12-17	3
## 2018-12-18	3
## 2018-12-21	2
## 2018-12-28	1
## 2019-01-02	2
## 2019-01-08	0
## 2019-01-09	1
## 2019-01-11	1
## 2019-01-14	1
## 2019-01-15	0
## 2019-01-16	0
## 2019-01-17	0
## 2019-01-29	2
## 2019-01-30	1
## 2019-02-05	3
## 2019-02-12	2
## 2019-02-19	3
## 2019-02-21	3
## 2019-02-25	10
## 2019-02-26	10
## 2019-02-28	10
## 2019-03-05	10
## 2019-03-06	10
## 2019-03-18	3
## 2019-03-28	1
## 2019-04-01	0
## 2019-04-12	3
## 2019-04-16	0
## 2019-04-22	0
## 2019-04-24	1
## 2019-04-26	0
## 2019-04-30	2
## 2019-05-01	2
## 2019-05-10	3
## 2019-05-14	0
## 2019-05-21	2
## 2019-06-11	1
## 2019-06-17	0
## 2019-06-24	1
## 2019-06-26	0
## 2019-07-09	0
## 2019-07-11	0
## 2019-07-15	1

## 2019-07-17	4
## 2019-07-18	4
## 2019-07-24	1
## 2019-08-02	1
## 2019-08-06	0
## 2019-08-07	0
## 2019-08-13	3
## 2019-08-15	0
## 2019-08-19	2
## 2019-08-28	0
## 2019-08-30	3
## 2019-09-10	0
## 2019-09-11	0
## 2019-09-18	6
## 2019-09-19	6
## 2019-09-30	0
## 2019-10-03	2
## 2019-10-07	4
## 2019-10-08	4
## 2019-10-11	0
## 2019-10-15	0
## 2019-10-21	0
## 2019-10-22	2
## 2019-10-24	2
## 2019-10-25	0
## 2019-11-04	4
## 2019-11-11	3
## 2019-11-19	3
## 2019-11-21	3
## 2019-11-26	0
## 2019-12-03	0
## 2019-12-04	5
## 2019-12-05	5
## 2019-12-06	5
## 2019-12-12	0
## 2019-12-16	0
## 2019-12-17	0
## 2020-01-03	3
## 2020-01-10	0
## 2020-01-15	0
## 2020-01-17	2
## 2020-01-21	2
## 2020-01-22	0
## 2020-01-29	3
## 2020-02-04	0
## 2020-02-11	0
## 2020-02-19	3
## 2020-02-24	2
## 2020-03-03	1

```
## 2020-03-04      3
## results        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$decrDaysThisCycle)
predDF_round
```

##	predRF_round	IncreasingDaysThisCycle
## 2012-03-06	4	4
## 2012-03-09	4	4
## 2012-03-13	3	3
## 2012-03-14	3	3
## 2012-03-20	1	1
## 2012-03-23	1	1
## 2012-04-04	3	3
## 2012-04-10	1	1
## 2012-04-26	0	0
## 2012-05-04	0	0
## 2012-05-17	2	2
## 2012-05-21	1	1
## 2012-05-30	3	3
## 2012-06-08	1	1
## 2012-06-12	0	0
## 2012-06-13	0	0
## 2012-06-14	0	0
## 2012-06-19	2	2
## 2012-07-02	0	0
## 2012-07-10	4	4
## 2012-07-13	2	2
## 2012-07-19	0	0
## 2012-07-20	5	5
## 2012-07-30	2	2
## 2012-07-31	2	2
## 2012-08-01	2	2
## 2012-08-09	1	1
## 2012-08-14	8	8
## 2012-08-17	8	8
## 2012-08-20	8	8
## 2012-08-27	2	2

## 2012-08-28	2	2
## 2012-08-29	1	1
## 2012-08-31	0	0
## 2012-09-06	2	2
## 2012-09-13	2	2
## 2012-09-14	2	2
## 2012-09-18	2	2
## 2012-09-20	0	0
## 2012-09-24	2	2
## 2012-09-25	2	2
## 2012-09-26	0	0
## 2012-10-02	1	1
## 2012-10-11	1	1
## 2012-10-16	1	1
## 2012-10-17	4	4
## 2012-10-18	4	4
## 2012-10-25	2	2
## 2012-11-02	4	4
## 2012-11-06	4	4
## 2012-11-07	3	3
## 2012-11-12	3	3
## 2012-11-14	1	1
## 2012-11-20	1	1
## 2012-12-04	3	3
## 2012-12-05	3	3
## 2012-12-06	3	3
## 2012-12-17	3	3
## 2012-12-18	3	3
## 2012-12-19	0	0
## 2012-12-21	1	1
## 2012-12-24	1	1
## 2012-12-31	1	1
## 2013-01-04	3	3
## 2013-01-08	3	3
## 2013-01-09	3	3
## 2013-01-16	5	5
## 2013-01-18	1	1
## 2013-01-22	1	1
## 2013-01-25	3	3
## 2013-01-31	2	2
## 2013-02-22	2	2
## 2013-02-25	2	2
## 2013-02-26	2	2
## 2013-03-01	0	0
## 2013-03-04	2	2
## 2013-03-06	2	2
## 2013-03-25	6	6
## 2013-03-26	0	0
## 2013-03-27	3	3
## 2013-04-05	2	2

## 2013-04-10	0	0
## 2013-04-11	0	0
## 2013-04-17	1	1
## 2013-04-19	3	3
## 2013-04-24	3	3
## 2013-05-03	4	4
## 2013-05-13	1	1
## 2013-05-14	1	1
## 2013-05-17	0	0
## 2013-05-20	0	0
## 2013-06-06	0	0
## 2013-06-10	3	3
## 2013-06-12	3	3
## 2013-06-14	0	0
## 2013-06-17	1	1
## 2013-06-25	0	0
## 2013-06-28	1	1
## 2013-07-10	1	1
## 2013-07-11	0	0
## 2013-07-15	1	1
## 2013-07-24	3	3
## 2013-07-25	0	0
## 2013-07-29	1	1
## 2013-08-09	1	1
## 2013-08-13	2	2
## 2013-08-21	0	0
## 2013-08-26	2	2
## 2013-09-04	0	0
## 2013-09-05	0	0
## 2013-09-09	1	1
## 2013-09-12	3	3
## 2013-09-16	3	3
## 2013-09-25	3	3
## 2013-09-27	3	3
## 2013-10-03	0	0
## 2013-10-09	3	3
## 2013-10-10	0	0
## 2013-10-11	0	0
## 2013-10-14	1	1
## 2013-10-16	1	1
## 2013-10-22	3	3
## 2013-10-28	2	2
## 2013-10-31	1	1
## 2013-11-05	2	2
## 2013-11-08	1	1
## 2013-11-11	1	1
## 2013-11-13	0	0
## 2013-11-15	3	3
## 2013-11-18	3	3
## 2013-11-20	3	3

## 2013-11-26	3	3
## 2013-11-27	3	3
## 2013-12-10	1	1
## 2013-12-23	1	1
## 2013-12-26	1	1
## 2014-01-15	1	1
## 2014-01-22	5	5
## 2014-01-28	1	1
## 2014-01-29	1	1
## 2014-01-31	1	1
## 2014-02-03	1	1
## 2014-02-24	0	0
## 2014-02-27	1	1
## 2014-03-03	0	0
## 2014-03-11	3	3
## 2014-03-19	6	6
## 2014-03-20	6	6
## 2014-03-21	6	6
## 2014-03-24	6	6
## 2014-03-26	6	6
## 2014-03-31	0	0
## 2014-04-01	3	3
## 2014-04-08	0	0
## 2014-04-09	2	2
## 2014-04-11	2	2
## 2014-04-14	0	0
## 2014-04-25	4	4
## 2014-05-01	1	1
## 2014-05-05	1	1
## 2014-05-13	2	2
## 2014-05-19	0	0
## 2014-05-20	0	0
## 2014-05-21	0	0
## 2014-05-28	1	1
## 2014-05-29	2	2
## 2014-05-30	2	2
## 2014-06-02	2	2
## 2014-06-05	0	0
## 2014-06-06	0	0
## 2014-06-16	1	1
## 2014-06-17	0	0
## 2014-06-24	1	1
## 2014-07-08	3	3
## 2014-07-14	3	3
## 2014-07-18	1	1
## 2014-07-29	0	0
## 2014-08-04	2	2
## 2014-08-05	2	2
## 2014-08-08	1	1
## 2014-08-12	1	1

## 2014-08-14	0	0
## 2014-08-18	0	0
## 2014-08-22	0	0
## 2014-08-25	1	1
## 2014-09-02	2	2
## 2014-09-05	2	2
## 2014-09-09	2	2
## 2014-09-11	5	5
## 2014-09-23	0	0
## 2014-09-25	1	1
## 2014-09-26	3	3
## 2014-09-30	3	3
## 2014-10-01	3	3
## 2014-10-02	0	0
## 2014-10-06	2	2
## 2014-10-09	3	3
## 2014-10-15	0	0
## 2014-10-16	0	0
## 2014-10-21	2	2
## 2014-10-29	1	1
## 2014-11-04	2	2
## 2014-11-07	1	1
## 2014-11-14	3	3
## 2014-11-18	3	3
## 2014-12-08	2	2
## 2014-12-09	1	1
## 2014-12-10	1	1
## 2014-12-22	1	1
## 2014-12-26	2	2
## 2014-12-30	0	0
## 2014-12-31	0	0
## 2015-01-22	0	0
## 2015-02-09	2	2
## 2015-02-18	2	2
## 2015-02-26	0	0
## 2015-03-06	3	3
## 2015-03-09	3	3
## 2015-03-18	3	3
## 2015-03-23	0	0
## 2015-03-30	2	2
## 2015-04-01	2	2
## 2015-04-06	1	1
## 2015-04-17	3	3
## 2015-04-21	0	0
## 2015-04-22	1	1
## 2015-04-28	0	0
## 2015-05-06	3	3
## 2015-05-12	7	7
## 2015-05-13	7	7
## 2015-05-14	7	7

## 2015-05-15	7	7
## 2015-05-18	7	7
## 2015-05-29	1	1
## 2015-06-03	2	2
## 2015-06-10	4	4
## 2015-06-15	1	1
## 2015-06-17	1	1
## 2015-06-22	0	0
## 2015-06-25	4	4
## 2015-06-26	4	4
## 2015-06-29	4	4
## 2015-06-30	7	7
## 2015-07-07	7	7
## 2015-07-08	7	7
## 2015-07-09	7	7
## 2015-07-10	7	7
## 2015-07-14	1	1
## 2015-07-28	4	4
## 2015-07-29	4	4
## 2015-07-31	1	1
## 2015-08-03	1	1
## 2015-08-06	3	3
## 2015-08-12	1	1
## 2015-08-13	1	1
## 2015-08-17	6	6
## 2015-08-18	6	6
## 2015-08-25	6	6
## 2015-09-01	1	1
## 2015-09-04	1	1
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## 2015-09-17	10	9
## 2015-09-29	10	9
## 2015-10-05	1	1
## 2015-10-06	1	1
## 2015-10-08	0	0
## 2015-10-09	3	3
## 2015-10-19	3	3
## 2015-10-23	0	0
## 2015-10-27	2	2
## 2015-10-28	2	2
## 2015-11-20	1	1
## 2015-12-01	0	0
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## 2015-12-08	1	1
## 2015-12-15	3	3
## 2015-12-16	3	3
## 2015-12-22	0	0
## 2015-12-23	0	0
## 2015-12-30	1	1
## 2015-12-31	10	11

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## 2016-01-15	10	11
## 2016-01-19	10	11
## 2016-01-26	2	2
## 2016-01-27	2	2
## 2016-02-03	2	2
## 2016-02-04	5	5
## 2016-02-05	5	5
## 2016-02-10	5	5
## 2016-02-18	1	1
## 2016-02-19	0	0
## 2016-02-24	2	2
## 2016-02-25	0	0
## 2016-03-04	1	1
## 2016-03-11	0	0
## 2016-03-15	1	1
## 2016-03-16	0	0
## 2016-03-23	4	4
## 2016-03-24	1	1
## 2016-03-31	2	2
## 2016-04-07	2	2
## 2016-04-08	2	2
## 2016-04-14	0	0
## 2016-04-25	1	1
## 2016-04-26	3	3
## 2016-05-04	2	2
## 2016-05-10	2	2
## 2016-05-19	2	2
## 2016-05-23	1	1
## 2016-05-24	0	0
## 2016-05-27	0	0
## 2016-06-07	1	1
## 2016-06-08	0	0
## 2016-06-09	3	3
## 2016-06-13	3	3
## 2016-06-14	3	3
## 2016-06-17	0	0
## 2016-06-20	0	0
## 2016-06-21	1	1
## 2016-06-22	1	1
## 2016-06-23	2	2
## 2016-06-27	2	2
## 2016-07-25	0	0
## 2016-07-29	2	2
## 2016-08-03	0	0
## 2016-08-09	0	0
## 2016-08-12	1	1
## 2016-08-24	3	3
## 2016-08-29	1	1
## 2016-09-06	3	3

## 2016-09-12	1	1
## 2016-09-15	3	3
## 2016-09-16	3	3
## 2016-09-23	0	0
## 2016-09-26	0	0
## 2016-09-29	1	1
## 2016-10-03	0	0
## 2016-10-06	2	2
## 2016-10-11	4	4
## 2016-10-12	4	4
## 2016-10-25	4	4
## 2016-10-27	4	4
## 2016-10-28	4	4
## 2016-10-31	1	1
## 2016-11-02	1	1
## 2016-11-03	1	1
## 2016-11-04	0	0
## 2016-11-07	0	0
## 2016-11-08	0	0
## 2016-11-17	0	0
## 2016-11-21	0	0
## 2016-11-25	2	2
## 2016-11-30	3	3
## 2016-12-02	3	3
## 2016-12-05	2	2
## 2016-12-08	2	2
## 2016-12-09	2	2
## 2016-12-14	1	1
## 2016-12-16	1	1
## 2017-01-12	1	1
## 2017-01-26	2	2
## 2017-02-02	5	5
## 2017-02-07	5	5
## 2017-02-14	7	7
## 2017-02-17	7	7
## 2017-02-24	7	7
## 2017-02-27	1	1
## 2017-02-28	1	1
## 2017-03-02	2	2
## 2017-03-07	1	1
## 2017-03-15	0	0
## 2017-03-21	6	6
## 2017-03-22	6	6
## 2017-03-31	1	1
## 2017-04-06	2	2
## 2017-04-13	2	2
## 2017-04-17	0	0
## 2017-04-18	1	1
## 2017-04-25	0	0
## 2017-05-02	1	1

## 2017-05-05	0	0
## 2017-05-08	2	2
## 2017-05-12	1	1
## 2017-05-18	1	1
## 2017-05-25	1	1
## 2017-05-30	0	0
## 2017-06-05	1	1
## 2017-06-09	1	1
## 2017-06-14	2	2
## 2017-06-22	0	0
## 2017-06-27	2	2
## 2017-07-05	1	1
## 2017-07-10	0	0
## 2017-07-11	0	0
## 2017-07-12	1	1
## 2017-07-14	1	1
## 2017-07-21	4	4
## 2017-07-24	4	4
## 2017-07-26	0	0
## 2017-07-27	0	0
## 2017-07-28	1	1
## 2017-07-31	1	1
## 2017-08-03	2	2
## 2017-08-10	3	3
## 2017-08-15	1	1
## 2017-08-25	1	1
## 2017-08-29	0	0
## 2017-08-30	1	1
## 2017-09-15	1	1
## 2017-09-25	4	4
## 2017-09-28	1	1
## 2017-10-02	0	0
## 2017-10-10	7	7
## 2017-10-16	7	7
## 2017-10-20	1	1
## 2017-10-31	3	3
## 2017-11-01	3	3
## 2017-11-02	3	3
## 2017-11-06	2	2
## 2017-11-15	1	1
## 2017-11-20	1	1
## 2017-11-21	1	1
## 2017-11-28	8	8
## 2017-11-29	8	8
## 2017-12-05	8	8
## 2017-12-06	8	8
## 2017-12-07	8	8
## 2017-12-11	0	0
## 2017-12-14	1	1
## 2017-12-18	4	4

## 2018-01-10	2	2
## 2018-01-12	1	1
## 2018-01-16	1	1
## 2018-01-17	2	2
## 2018-01-23	1	1
## 2018-01-25	0	0
## 2018-01-26	0	0
## 2018-01-31	0	0
## 2018-02-01	2	2
## 2018-02-06	0	0
## 2018-02-26	4	4
## 2018-03-02	1	1
## 2018-03-06	0	0
## 2018-03-08	1	1
## 2018-03-09	0	0
## 2018-03-13	1	1
## 2018-03-15	7	7
## 2018-03-16	7	7
## 2018-03-26	1	1
## 2018-03-28	0	0
## 2018-04-03	0	0
## 2018-04-10	0	0
## 2018-04-17	3	3
## 2018-04-18	3	3
## 2018-04-20	3	3
## 2018-04-23	2	2
## 2018-04-30	1	1
## 2018-05-01	1	1
## 2018-05-02	1	1
## 2018-05-03	1	1
## 2018-05-09	3	3
## 2018-05-10	3	3
## 2018-05-16	0	0
## 2018-05-18	0	0
## 2018-05-22	1	1
## 2018-05-31	1	1
## 2018-06-06	2	2
## 2018-06-14	1	1
## 2018-06-15	1	1
## 2018-06-18	0	0
## 2018-06-28	0	0
## 2018-07-02	1	1
## 2018-07-03	1	1
## 2018-07-06	1	1
## 2018-07-10	2	2
## 2018-07-17	5	5
## 2018-07-19	5	5
## 2018-07-20	5	5
## 2018-07-26	3	3
## 2018-07-30	3	3

## 2018-08-01	0	0
## 2018-08-03	0	0
## 2018-08-06	2	2
## 2018-08-09	0	0
## 2018-08-13	1	1
## 2018-08-15	6	6
## 2018-08-22	6	6
## 2018-08-23	0	0
## 2018-08-29	1	1
## 2018-08-30	1	1
## 2018-08-31	3	3
## 2018-09-05	3	3
## 2018-09-18	1	1
## 2018-09-19	1	1
## 2018-09-21	2	2
## 2018-09-25	1	1
## 2018-09-28	3	3
## 2018-10-09	5	5
## 2018-10-16	3	3
## 2018-10-22	2	2
## 2018-10-29	2	2
## 2018-10-31	0	0
## 2018-11-05	0	0
## 2018-11-06	0	0
## 2018-11-08	2	2
## 2018-11-23	0	0
## 2018-11-26	1	1
## 2018-11-29	1	1
## 2018-12-10	0	0
## 2018-12-11	1	1
## 2018-12-14	3	3
## 2018-12-17	3	3
## 2018-12-18	3	3
## 2018-12-21	2	2
## 2018-12-28	1	1
## 2019-01-02	2	2
## 2019-01-08	0	0
## 2019-01-09	1	1
## 2019-01-11	1	1
## 2019-01-14	1	1
## 2019-01-15	0	0
## 2019-01-16	0	0
## 2019-01-17	0	0
## 2019-01-29	2	2
## 2019-01-30	1	1
## 2019-02-05	3	3
## 2019-02-12	2	2
## 2019-02-19	3	3
## 2019-02-21	3	3
## 2019-02-25	10	10

## 2019-02-26	10	10
## 2019-02-28	10	10
## 2019-03-05	10	10
## 2019-03-06	10	10
## 2019-03-18	3	3
## 2019-03-28	1	1
## 2019-04-01	0	0
## 2019-04-12	3	3
## 2019-04-16	0	0
## 2019-04-22	0	0
## 2019-04-24	1	1
## 2019-04-26	0	0
## 2019-04-30	2	2
## 2019-05-01	2	2
## 2019-05-10	3	3
## 2019-05-14	0	0
## 2019-05-21	2	2
## 2019-06-11	1	1
## 2019-06-17	0	0
## 2019-06-24	1	1
## 2019-06-26	0	0
## 2019-07-09	0	0
## 2019-07-11	0	0
## 2019-07-15	1	1
## 2019-07-17	4	4
## 2019-07-18	4	4
## 2019-07-24	1	1
## 2019-08-02	1	1
## 2019-08-06	0	0
## 2019-08-07	0	0
## 2019-08-13	3	3
## 2019-08-15	0	0
## 2019-08-19	2	2
## 2019-08-28	0	0
## 2019-08-30	3	3
## 2019-09-10	0	0
## 2019-09-11	0	0
## 2019-09-18	6	6
## 2019-09-19	6	6
## 2019-09-30	0	0
## 2019-10-03	2	2
## 2019-10-07	4	4
## 2019-10-08	4	4
## 2019-10-11	0	0
## 2019-10-15	0	0
## 2019-10-21	0	0
## 2019-10-22	2	2
## 2019-10-24	2	2
## 2019-10-25	0	0
## 2019-11-04	4	4

```
## 2019-11-11      3      3
## 2019-11-19      3      3
## 2019-11-21      3      3
## 2019-11-26      0      0
## 2019-12-03      0      0
## 2019-12-04      5      5
## 2019-12-05      5      5
## 2019-12-06      5      5
## 2019-12-12      0      0
## 2019-12-16      0      0
## 2019-12-17      0      0
## 2020-01-03      3      3
## 2020-01-10      0      0
## 2020-01-15      0      0
## 2020-01-17      2      2
## 2020-01-21      2      2
## 2020-01-22      0      0
## 2020-01-29      3      3
## 2020-02-04      0      0
## 2020-02-11      0      0
## 2020-02-19      3      3
## 2020-02-24      2      2
## 2020-03-03      1      1
## 2020-03-04      3      3
```

```
sum <- sum(predRF_round==testingSet$decrDaysThisCycle)
length <- length(testingSet$decrDaysThisCycle)
accuracy_rfMod_round <- (sum/length)
accuracy_rfMod_round
```

```
## [1] 0.9917355
```

```
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
## 2012-03-06      4      4
## 2012-03-09      4      4
## 2012-03-13      3      3
## 2012-03-14      3      3
## 2012-03-20      1      1
## 2012-03-23      1      1
## 2012-04-04      3      3
## 2012-04-10      1      1
## 2012-04-26      0      0
## 2012-05-04      0      0
```

## 2012-05-17	2	2
## 2012-05-21	1	1
## 2012-05-30	3	3
## 2012-06-08	1	1
## 2012-06-12	0	0
## 2012-06-13	0	0
## 2012-06-14	0	0
## 2012-06-19	2	2
## 2012-07-02	0	0
## 2012-07-10	4	4
## 2012-07-13	2	2
## 2012-07-19	0	0
## 2012-07-20	5	5
## 2012-07-30	2	2
## 2012-07-31	2	2
## 2012-08-01	2	2
## 2012-08-09	1	1
## 2012-08-14	8	8
## 2012-08-17	8	8
## 2012-08-20	8	8
## 2012-08-27	2	2
## 2012-08-28	2	2
## 2012-08-29	1	1
## 2012-08-31	0	0
## 2012-09-06	2	2
## 2012-09-13	2	2
## 2012-09-14	2	2
## 2012-09-18	2	2
## 2012-09-20	0	0
## 2012-09-24	2	2
## 2012-09-25	2	2
## 2012-09-26	0	0
## 2012-10-02	1	1
## 2012-10-11	1	1
## 2012-10-16	1	1
## 2012-10-17	4	4
## 2012-10-18	4	4
## 2012-10-25	2	2
## 2012-11-02	4	4
## 2012-11-06	4	4
## 2012-11-07	3	3
## 2012-11-12	3	3
## 2012-11-14	1	1
## 2012-11-20	1	1
## 2012-12-04	3	3
## 2012-12-05	3	3
## 2012-12-06	3	3
## 2012-12-17	3	3
## 2012-12-18	3	3
## 2012-12-19	0	0

## 2012-12-21	1	1
## 2012-12-24	1	1
## 2012-12-31	1	1
## 2013-01-04	3	3
## 2013-01-08	3	3
## 2013-01-09	3	3
## 2013-01-16	5	5
## 2013-01-18	1	1
## 2013-01-22	1	1
## 2013-01-25	3	3
## 2013-01-31	2	2
## 2013-02-22	2	2
## 2013-02-25	2	2
## 2013-02-26	2	2
## 2013-03-01	0	0
## 2013-03-04	2	2
## 2013-03-06	2	2
## 2013-03-25	6	6
## 2013-03-26	0	0
## 2013-03-27	3	3
## 2013-04-05	2	2
## 2013-04-10	0	0
## 2013-04-11	0	0
## 2013-04-17	1	1
## 2013-04-19	3	3
## 2013-04-24	3	3
## 2013-05-03	4	4
## 2013-05-13	1	1
## 2013-05-14	1	1
## 2013-05-17	0	0
## 2013-05-20	0	0
## 2013-06-06	0	0
## 2013-06-10	3	3
## 2013-06-12	3	3
## 2013-06-14	0	0
## 2013-06-17	1	1
## 2013-06-25	0	0
## 2013-06-28	1	1
## 2013-07-10	1	1
## 2013-07-11	0	0
## 2013-07-15	1	1
## 2013-07-24	3	3
## 2013-07-25	0	0
## 2013-07-29	1	1
## 2013-08-09	1	1
## 2013-08-13	2	2
## 2013-08-21	0	0
## 2013-08-26	2	2
## 2013-09-04	0	0
## 2013-09-05	0	0

## 2013-09-09	1	1
## 2013-09-12	3	3
## 2013-09-16	3	3
## 2013-09-25	3	3
## 2013-09-27	3	3
## 2013-10-03	0	0
## 2013-10-09	3	3
## 2013-10-10	0	0
## 2013-10-11	0	0
## 2013-10-14	1	1
## 2013-10-16	1	1
## 2013-10-22	3	3
## 2013-10-28	2	2
## 2013-10-31	1	1
## 2013-11-05	2	2
## 2013-11-08	1	1
## 2013-11-11	1	1
## 2013-11-13	0	0
## 2013-11-15	3	3
## 2013-11-18	3	3
## 2013-11-20	3	3
## 2013-11-26	3	3
## 2013-11-27	3	3
## 2013-12-10	1	1
## 2013-12-23	1	1
## 2013-12-26	1	1
## 2014-01-15	1	1
## 2014-01-22	5	5
## 2014-01-28	1	1
## 2014-01-29	1	1
## 2014-01-31	1	1
## 2014-02-03	1	1
## 2014-02-24	0	0
## 2014-02-27	1	1
## 2014-03-03	0	0
## 2014-03-11	3	3
## 2014-03-19	6	6
## 2014-03-20	6	6
## 2014-03-21	6	6
## 2014-03-24	6	6
## 2014-03-26	6	6
## 2014-03-31	0	0
## 2014-04-01	3	3
## 2014-04-08	0	0
## 2014-04-09	2	2
## 2014-04-11	2	2
## 2014-04-14	0	0
## 2014-04-25	4	4
## 2014-05-01	1	1
## 2014-05-05	1	1

## 2014-05-13	2	2
## 2014-05-19	0	0
## 2014-05-20	0	0
## 2014-05-21	0	0
## 2014-05-28	1	1
## 2014-05-29	2	2
## 2014-05-30	2	2
## 2014-06-02	2	2
## 2014-06-05	0	0
## 2014-06-06	0	0
## 2014-06-16	1	1
## 2014-06-17	0	0
## 2014-06-24	1	1
## 2014-07-08	3	3
## 2014-07-14	3	3
## 2014-07-18	1	1
## 2014-07-29	0	0
## 2014-08-04	2	2
## 2014-08-05	2	2
## 2014-08-08	1	1
## 2014-08-12	1	1
## 2014-08-14	0	0
## 2014-08-18	0	0
## 2014-08-22	0	0
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## 2014-09-02	2	2
## 2014-09-05	2	2
## 2014-09-09	2	2
## 2014-09-11	5	5
## 2014-09-23	0	0
## 2014-09-25	1	1
## 2014-09-26	3	3
## 2014-09-30	3	3
## 2014-10-01	3	3
## 2014-10-02	0	0
## 2014-10-06	2	2
## 2014-10-09	3	3
## 2014-10-15	0	0
## 2014-10-16	0	0
## 2014-10-21	2	2
## 2014-10-29	1	1
## 2014-11-04	2	2
## 2014-11-07	1	1
## 2014-11-14	3	3
## 2014-11-18	3	3
## 2014-12-08	2	2
## 2014-12-09	1	1
## 2014-12-10	1	1
## 2014-12-22	1	1
## 2014-12-26	2	2

## 2014-12-30	0	0
## 2014-12-31	0	0
## 2015-01-22	0	0
## 2015-02-09	2	2
## 2015-02-18	2	2
## 2015-02-26	0	0
## 2015-03-06	3	3
## 2015-03-09	3	3
## 2015-03-18	3	3
## 2015-03-23	0	0
## 2015-03-30	2	2
## 2015-04-01	2	2
## 2015-04-06	1	1
## 2015-04-17	3	3
## 2015-04-21	0	0
## 2015-04-22	1	1
## 2015-04-28	0	0
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## 2015-05-12	7	7
## 2015-05-13	7	7
## 2015-05-14	7	7
## 2015-05-15	7	7
## 2015-05-18	7	7
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## 2015-06-03	2	2
## 2015-06-10	4	4
## 2015-06-15	1	1
## 2015-06-17	1	1
## 2015-06-22	0	0
## 2015-06-25	4	4
## 2015-06-26	4	4
## 2015-06-29	4	4
## 2015-06-30	7	7
## 2015-07-07	7	7
## 2015-07-08	7	7
## 2015-07-09	7	7
## 2015-07-10	7	7
## 2015-07-14	1	1
## 2015-07-28	4	4
## 2015-07-29	4	4
## 2015-07-31	1	1
## 2015-08-03	1	1
## 2015-08-06	3	3
## 2015-08-12	1	1
## 2015-08-13	1	1
## 2015-08-17	6	6
## 2015-08-18	6	6
## 2015-08-25	6	6
## 2015-09-01	1	1
## 2015-09-04	1	1

## 2015-09-10	2	2
## 2015-09-17	10	9
## 2015-09-29	10	9
## 2015-10-05	1	1
## 2015-10-06	1	1
## 2015-10-08	0	0
## 2015-10-09	3	3
## 2015-10-19	3	3
## 2015-10-23	0	0
## 2015-10-27	2	2
## 2015-10-28	2	2
## 2015-11-20	1	1
## 2015-12-01	0	0
## 2015-12-03	3	3
## 2015-12-08	1	1
## 2015-12-15	3	3
## 2015-12-16	3	3
## 2015-12-22	0	0
## 2015-12-23	0	0
## 2015-12-30	1	1
## 2015-12-31	10	11
## 2016-01-06	11	11
## 2016-01-15	10	11
## 2016-01-19	10	11
## 2016-01-26	2	2
## 2016-01-27	2	2
## 2016-02-03	2	2
## 2016-02-04	5	5
## 2016-02-05	5	5
## 2016-02-10	5	5
## 2016-02-18	1	1
## 2016-02-19	0	0
## 2016-02-24	2	2
## 2016-02-25	0	0
## 2016-03-04	1	1
## 2016-03-11	0	0
## 2016-03-15	1	1
## 2016-03-16	0	0
## 2016-03-23	4	4
## 2016-03-24	1	1
## 2016-03-31	2	2
## 2016-04-07	2	2
## 2016-04-08	2	2
## 2016-04-14	0	0
## 2016-04-25	1	1
## 2016-04-26	3	3
## 2016-05-04	2	2
## 2016-05-10	2	2
## 2016-05-19	2	2
## 2016-05-23	1	1

## 2016-05-24	0	0
## 2016-05-27	0	0
## 2016-06-07	1	1
## 2016-06-08	0	0
## 2016-06-09	3	3
## 2016-06-13	3	3
## 2016-06-14	3	3
## 2016-06-17	0	0
## 2016-06-20	0	0
## 2016-06-21	1	1
## 2016-06-22	1	1
## 2016-06-23	2	2
## 2016-06-27	2	2
## 2016-07-25	0	0
## 2016-07-29	2	2
## 2016-08-03	0	0
## 2016-08-09	0	0
## 2016-08-12	1	1
## 2016-08-24	3	3
## 2016-08-29	1	1
## 2016-09-06	3	3
## 2016-09-12	1	1
## 2016-09-15	3	3
## 2016-09-16	3	3
## 2016-09-23	0	0
## 2016-09-26	0	0
## 2016-09-29	1	1
## 2016-10-03	0	0
## 2016-10-06	2	2
## 2016-10-11	4	4
## 2016-10-12	4	4
## 2016-10-25	4	4
## 2016-10-27	4	4
## 2016-10-28	4	4
## 2016-10-31	1	1
## 2016-11-02	1	1
## 2016-11-03	1	1
## 2016-11-04	0	0
## 2016-11-07	0	0
## 2016-11-08	0	0
## 2016-11-17	0	0
## 2016-11-21	0	0
## 2016-11-25	2	2
## 2016-11-30	3	3
## 2016-12-02	3	3
## 2016-12-05	2	2
## 2016-12-08	2	2
## 2016-12-09	2	2
## 2016-12-14	1	1
## 2016-12-16	1	1

## 2017-01-12	1	1
## 2017-01-26	2	2
## 2017-02-02	5	5
## 2017-02-07	5	5
## 2017-02-14	7	7
## 2017-02-17	7	7
## 2017-02-24	7	7
## 2017-02-27	1	1
## 2017-02-28	1	1
## 2017-03-02	2	2
## 2017-03-07	1	1
## 2017-03-15	0	0
## 2017-03-21	6	6
## 2017-03-22	6	6
## 2017-03-31	1	1
## 2017-04-06	2	2
## 2017-04-13	2	2
## 2017-04-17	0	0
## 2017-04-18	1	1
## 2017-04-25	0	0
## 2017-05-02	1	1
## 2017-05-05	0	0
## 2017-05-08	2	2
## 2017-05-12	1	1
## 2017-05-18	1	1
## 2017-05-25	1	1
## 2017-05-30	0	0
## 2017-06-05	1	1
## 2017-06-09	1	1
## 2017-06-14	2	2
## 2017-06-22	0	0
## 2017-06-27	2	2
## 2017-07-05	1	1
## 2017-07-10	0	0
## 2017-07-11	0	0
## 2017-07-12	1	1
## 2017-07-14	1	1
## 2017-07-21	4	4
## 2017-07-24	4	4
## 2017-07-26	0	0
## 2017-07-27	0	0
## 2017-07-28	1	1
## 2017-07-31	1	1
## 2017-08-03	2	2
## 2017-08-10	3	3
## 2017-08-15	1	1
## 2017-08-25	1	1
## 2017-08-29	0	0
## 2017-08-30	1	1
## 2017-09-15	1	1

## 2017-09-25	4	4
## 2017-09-28	1	1
## 2017-10-02	0	0
## 2017-10-10	7	7
## 2017-10-16	7	7
## 2017-10-20	1	1
## 2017-10-31	3	3
## 2017-11-01	3	3
## 2017-11-02	3	3
## 2017-11-06	2	2
## 2017-11-15	1	1
## 2017-11-20	1	1
## 2017-11-21	1	1
## 2017-11-28	8	8
## 2017-11-29	8	8
## 2017-12-05	8	8
## 2017-12-06	8	8
## 2017-12-07	8	8
## 2017-12-11	0	0
## 2017-12-14	1	1
## 2017-12-18	4	4
## 2018-01-10	2	2
## 2018-01-12	1	1
## 2018-01-16	1	1
## 2018-01-17	2	2
## 2018-01-23	1	1
## 2018-01-25	0	0
## 2018-01-26	0	0
## 2018-01-31	0	0
## 2018-02-01	2	2
## 2018-02-06	0	0
## 2018-02-26	4	4
## 2018-03-02	1	1
## 2018-03-06	0	0
## 2018-03-08	1	1
## 2018-03-09	0	0
## 2018-03-13	1	1
## 2018-03-15	7	7
## 2018-03-16	7	7
## 2018-03-26	1	1
## 2018-03-28	0	0
## 2018-04-03	0	0
## 2018-04-10	0	0
## 2018-04-17	3	3
## 2018-04-18	3	3
## 2018-04-20	3	3
## 2018-04-23	2	2
## 2018-04-30	1	1
## 2018-05-01	1	1
## 2018-05-02	1	1

## 2018-05-03	1	1
## 2018-05-09	3	3
## 2018-05-10	3	3
## 2018-05-16	0	0
## 2018-05-18	0	0
## 2018-05-22	1	1
## 2018-05-31	1	1
## 2018-06-06	2	2
## 2018-06-14	1	1
## 2018-06-15	1	1
## 2018-06-18	0	0
## 2018-06-28	0	0
## 2018-07-02	1	1
## 2018-07-03	1	1
## 2018-07-06	1	1
## 2018-07-10	2	2
## 2018-07-17	5	5
## 2018-07-19	5	5
## 2018-07-20	5	5
## 2018-07-26	3	3
## 2018-07-30	3	3
## 2018-08-01	0	0
## 2018-08-03	0	0
## 2018-08-06	2	2
## 2018-08-09	0	0
## 2018-08-13	1	1
## 2018-08-15	6	6
## 2018-08-22	6	6
## 2018-08-23	0	0
## 2018-08-29	1	1
## 2018-08-30	1	1
## 2018-08-31	3	3
## 2018-09-05	3	3
## 2018-09-18	1	1
## 2018-09-19	1	1
## 2018-09-21	2	2
## 2018-09-25	1	1
## 2018-09-28	3	3
## 2018-10-09	5	5
## 2018-10-16	3	3
## 2018-10-22	2	2
## 2018-10-29	2	2
## 2018-10-31	0	0
## 2018-11-05	0	0
## 2018-11-06	0	0
## 2018-11-08	2	2
## 2018-11-23	0	0
## 2018-11-26	1	1
## 2018-11-29	1	1
## 2018-12-10	0	0

## 2018-12-11	1	1
## 2018-12-14	3	3
## 2018-12-17	3	3
## 2018-12-18	3	3
## 2018-12-21	2	2
## 2018-12-28	1	1
## 2019-01-02	2	2
## 2019-01-08	0	0
## 2019-01-09	1	1
## 2019-01-11	1	1
## 2019-01-14	1	1
## 2019-01-15	0	0
## 2019-01-16	0	0
## 2019-01-17	0	0
## 2019-01-29	2	2
## 2019-01-30	1	1
## 2019-02-05	3	3
## 2019-02-12	2	2
## 2019-02-19	3	3
## 2019-02-21	3	3
## 2019-02-25	10	10
## 2019-02-26	10	10
## 2019-02-28	10	10
## 2019-03-05	10	10
## 2019-03-06	10	10
## 2019-03-18	3	3
## 2019-03-28	1	1
## 2019-04-01	0	0
## 2019-04-12	3	3
## 2019-04-16	0	0
## 2019-04-22	0	0
## 2019-04-24	1	1
## 2019-04-26	0	0
## 2019-04-30	2	2
## 2019-05-01	2	2
## 2019-05-10	3	3
## 2019-05-14	0	0
## 2019-05-21	2	2
## 2019-06-11	1	1
## 2019-06-17	0	0
## 2019-06-24	1	1
## 2019-06-26	0	0
## 2019-07-09	0	0
## 2019-07-11	0	0
## 2019-07-15	1	1
## 2019-07-17	4	4
## 2019-07-18	4	4
## 2019-07-24	1	1
## 2019-08-02	1	1
## 2019-08-06	0	0

## 2019-08-07	0	0
## 2019-08-13	3	3
## 2019-08-15	0	0
## 2019-08-19	2	2
## 2019-08-28	0	0
## 2019-08-30	3	3
## 2019-09-10	0	0
## 2019-09-11	0	0
## 2019-09-18	6	6
## 2019-09-19	6	6
## 2019-09-30	0	0
## 2019-10-03	2	2
## 2019-10-07	4	4
## 2019-10-08	4	4
## 2019-10-11	0	0
## 2019-10-15	0	0
## 2019-10-21	0	0
## 2019-10-22	2	2
## 2019-10-24	2	2
## 2019-10-25	0	0
## 2019-11-04	4	4
## 2019-11-11	3	3
## 2019-11-19	3	3
## 2019-11-21	3	3
## 2019-11-26	0	0
## 2019-12-03	0	0
## 2019-12-04	5	5
## 2019-12-05	5	5
## 2019-12-06	5	5
## 2019-12-12	0	0
## 2019-12-16	0	0
## 2019-12-17	0	0
## 2020-01-03	3	3
## 2020-01-10	0	0
## 2020-01-15	0	0
## 2020-01-17	2	2
## 2020-01-21	2	2
## 2020-01-22	0	0
## 2020-01-29	3	3
## 2020-02-04	0	0
## 2020-02-11	0	0
## 2020-02-19	3	3
## 2020-02-24	2	2
## 2020-03-03	1	1
## 2020-03-04	3	3
## results_round	0.99	100

```
knnMod_round <- train(decrDaysThisCycle ~ .,
  method='knn', preProcess=c('center', 'scale'),
```

```

        tuneLength=10, trControl=trainControl(method='cv'),
data=trainingSet)

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

glmMod_round <- train(decrDaysThisCycle ~ .,
        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$decrDaysThisCycle)

sumKNN_round <- sum(predKNN_round==testingSet$decrDaysThisCycle)
sumRPart_round <- sum(predRPART_round==testingSet$decrDaysThisCycle)

sumGLM_round <- sum(predGLM_round==testingSet$decrDaysThisCycle)

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,
        DecreasingDaysThisCycle=testingSet$decrDaysThisCycle)
colnames(predDF2_round) <-
c('RandomForest_round','KNN_round','Rpart_round','GLM_round','DecreasingDaysT
hisCycle')

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','DecreasingDaysT
hisCycle')
Results_round <- rbind(predDF2_round, results_round)
Results_round

```

##	RandomForest_round	KNN_round	Rpart_round	GLM_round
## 2012-03-06	4	5	4	4
## 2012-03-09	4	3	4	4
## 2012-03-13	3	2	3	3
## 2012-03-14	3	4	3	4
## 2012-03-20	1	1	1	1
## 2012-03-23	1	1	1	1
## 2012-04-04	3	4	3	4
## 2012-04-10	1	1	1	1
## 2012-04-26	0	0	0	0
## 2012-05-04	0	0	0	0
## 2012-05-17	2	3	2	3
## 2012-05-21	1	1	1	2
## 2012-05-30	3	3	3	3
## 2012-06-08	1	0	1	1
## 2012-06-12	0	0	0	0
## 2012-06-13	0	0	0	0
## 2012-06-14	0	0	0	0
## 2012-06-19	2	1	2	3
## 2012-07-02	0	0	0	0
## 2012-07-10	4	5	4	4
## 2012-07-13	2	3	2	4
## 2012-07-19	0	0	0	0
## 2012-07-20	5	5	5	4
## 2012-07-30	2	2	2	3
## 2012-07-31	2	3	2	3
## 2012-08-01	2	4	2	3
## 2012-08-09	1	1	1	1
## 2012-08-14	8	5	7	5
## 2012-08-17	8	7	7	5
## 2012-08-20	8	7	7	5
## 2012-08-27	2	3	2	3
## 2012-08-28	2	2	2	3
## 2012-08-29	1	0	1	1
## 2012-08-31	0	0	0	0
## 2012-09-06	2	3	2	3
## 2012-09-13	2	2	2	3
## 2012-09-14	2	2	2	3
## 2012-09-18	2	2	2	3
## 2012-09-20	0	0	0	0
## 2012-09-24	2	2	2	4
## 2012-09-25	2	2	2	3
## 2012-09-26	0	0	0	0
## 2012-10-02	1	1	1	1
## 2012-10-11	1	1	1	2
## 2012-10-16	1	1	1	1
## 2012-10-17	4	4	4	4
## 2012-10-18	4	7	4	4
## 2012-10-25	2	4	2	3
## 2012-11-02	4	3	4	5

## 2012-11-06	4	5	4	4
## 2012-11-07	3	3	3	4
## 2012-11-12	3	2	3	4
## 2012-11-14	1	1	1	1
## 2012-11-20	1	1	1	2
## 2012-12-04	3	3	3	4
## 2012-12-05	3	3	3	4
## 2012-12-06	3	3	3	4
## 2012-12-17	3	4	3	4
## 2012-12-18	3	3	3	3
## 2012-12-19	0	0	0	0
## 2012-12-21	1	1	1	2
## 2012-12-24	1	1	1	1
## 2012-12-31	1	1	1	1
## 2013-01-04	3	2	3	3
## 2013-01-08	3	3	3	4
## 2013-01-09	3	2	3	3
## 2013-01-16	5	6	5	5
## 2013-01-18	1	1	1	2
## 2013-01-22	1	1	1	1
## 2013-01-25	3	4	3	3
## 2013-01-31	2	3	2	3
## 2013-02-22	2	3	2	3
## 2013-02-25	2	3	2	4
## 2013-02-26	2	3	2	3
## 2013-03-01	0	0	0	0
## 2013-03-04	2	1	2	3
## 2013-03-06	2	3	2	3
## 2013-03-25	6	3	6	4
## 2013-03-26	0	0	0	0
## 2013-03-27	3	4	3	3
## 2013-04-05	2	2	2	3
## 2013-04-10	0	0	0	0
## 2013-04-11	0	0	0	0
## 2013-04-17	1	1	1	2
## 2013-04-19	3	5	3	4
## 2013-04-24	3	4	3	3
## 2013-05-03	4	4	4	4
## 2013-05-13	1	1	1	1
## 2013-05-14	1	1	1	2
## 2013-05-17	0	0	0	0
## 2013-05-20	0	0	0	0
## 2013-06-06	0	0	0	0
## 2013-06-10	3	3	3	4
## 2013-06-12	3	3	3	3
## 2013-06-14	0	0	0	0
## 2013-06-17	1	1	1	1
## 2013-06-25	0	0	0	0
## 2013-06-28	1	1	1	2
## 2013-07-10	1	1	1	1

## 2013-07-11	0	0	0	0
## 2013-07-15	1	1	1	1
## 2013-07-24	3	3	3	3
## 2013-07-25	0	0	0	0
## 2013-07-29	1	1	1	1
## 2013-08-09	1	1	1	2
## 2013-08-13	2	3	2	3
## 2013-08-21	0	0	0	0
## 2013-08-26	2	2	2	2
## 2013-09-04	0	0	0	0
## 2013-09-05	0	0	0	0
## 2013-09-09	1	1	1	1
## 2013-09-12	3	3	3	3
## 2013-09-16	3	2	3	3
## 2013-09-25	3	3	3	3
## 2013-09-27	3	2	3	3
## 2013-10-03	0	0	0	0
## 2013-10-09	3	2	3	3
## 2013-10-10	0	0	0	0
## 2013-10-11	0	0	0	0
## 2013-10-14	1	1	1	1
## 2013-10-16	1	2	1	1
## 2013-10-22	3	4	3	3
## 2013-10-28	2	4	2	3
## 2013-10-31	1	1	1	1
## 2013-11-05	2	2	2	2
## 2013-11-08	1	1	1	2
## 2013-11-11	1	2	1	1
## 2013-11-13	0	0	0	0
## 2013-11-15	3	3	3	3
## 2013-11-18	3	3	3	3
## 2013-11-20	3	2	3	3
## 2013-11-26	3	2	3	4
## 2013-11-27	3	3	3	3
## 2013-12-10	1	1	1	1
## 2013-12-23	1	0	1	1
## 2013-12-26	1	1	1	1
## 2014-01-15	1	1	1	1
## 2014-01-22	5	3	5	4
## 2014-01-28	1	1	1	1
## 2014-01-29	1	1	1	1
## 2014-01-31	1	1	1	1
## 2014-02-03	1	2	1	1
## 2014-02-24	0	0	0	0
## 2014-02-27	1	0	1	1
## 2014-03-03	0	0	0	0
## 2014-03-11	3	4	3	3
## 2014-03-19	6	3	6	4
## 2014-03-20	6	3	6	4
## 2014-03-21	6	3	6	4

## 2014-03-24	6	3	6	4
## 2014-03-26	6	3	6	4
## 2014-03-31	0	0	0	0
## 2014-04-01	3	3	3	3
## 2014-04-08	0	0	0	0
## 2014-04-09	2	2	2	2
## 2014-04-11	2	2	2	2
## 2014-04-14	0	0	0	0
## 2014-04-25	4	3	4	4
## 2014-05-01	1	2	1	1
## 2014-05-05	1	1	1	1
## 2014-05-13	2	3	2	3
## 2014-05-19	0	0	0	0
## 2014-05-20	0	0	0	0
## 2014-05-21	0	0	0	0
## 2014-05-28	1	1	1	2
## 2014-05-29	2	2	2	3
## 2014-05-30	2	2	2	3
## 2014-06-02	2	3	2	2
## 2014-06-05	0	0	0	0
## 2014-06-06	0	0	0	0
## 2014-06-16	1	2	1	1
## 2014-06-17	0	0	0	0
## 2014-06-24	1	1	1	1
## 2014-07-08	3	3	3	3
## 2014-07-14	3	2	3	3
## 2014-07-18	1	2	1	2
## 2014-07-29	0	0	0	0
## 2014-08-04	2	2	2	3
## 2014-08-05	2	3	2	3
## 2014-08-08	1	1	1	1
## 2014-08-12	1	1	1	2
## 2014-08-14	0	0	0	0
## 2014-08-18	0	0	0	0
## 2014-08-22	0	0	0	0
## 2014-08-25	1	0	1	2
## 2014-09-02	2	2	2	3
## 2014-09-05	2	2	2	3
## 2014-09-09	2	3	2	2
## 2014-09-11	5	3	5	4
## 2014-09-23	0	0	0	0
## 2014-09-25	1	1	1	1
## 2014-09-26	3	2	3	3
## 2014-09-30	3	4	3	3
## 2014-10-01	3	3	3	3
## 2014-10-02	0	0	0	0
## 2014-10-06	2	3	2	3
## 2014-10-09	3	3	3	3
## 2014-10-15	0	0	0	0
## 2014-10-16	0	0	0	0

## 2014-10-21	2	2	2	3
## 2014-10-29	1	2	1	1
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## 2014-12-22	1	1	1	1
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## 2014-12-30	0	0	0	0
## 2014-12-31	0	0	0	0
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## 2015-02-18	2	2	2	3
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## 2012-07-31	2			
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## 2014-05-05	1
## 2014-05-13	2
## 2014-05-19	0
## 2014-05-20	0
## 2014-05-21	0
## 2014-05-28	1
## 2014-05-29	2
## 2014-05-30	2
## 2014-06-02	2
## 2014-06-05	0
## 2014-06-06	0
## 2014-06-16	1
## 2014-06-17	0
## 2014-06-24	1
## 2014-07-08	3
## 2014-07-14	3
## 2014-07-18	1
## 2014-07-29	0
## 2014-08-04	2
## 2014-08-05	2
## 2014-08-08	1
## 2014-08-12	1
## 2014-08-14	0
## 2014-08-18	0
## 2014-08-22	0
## 2014-08-25	1
## 2014-09-02	2
## 2014-09-05	2
## 2014-09-09	2
## 2014-09-11	5
## 2014-09-23	0
## 2014-09-25	1
## 2014-09-26	3

## 2014-09-30	3
## 2014-10-01	3
## 2014-10-02	0
## 2014-10-06	2
## 2014-10-09	3
## 2014-10-15	0
## 2014-10-16	0
## 2014-10-21	2
## 2014-10-29	1
## 2014-11-04	2
## 2014-11-07	1
## 2014-11-14	3
## 2014-11-18	3
## 2014-12-08	2
## 2014-12-09	1
## 2014-12-10	1
## 2014-12-22	1
## 2014-12-26	2
## 2014-12-30	0
## 2014-12-31	0
## 2015-01-22	0
## 2015-02-09	2
## 2015-02-18	2
## 2015-02-26	0
## 2015-03-06	3
## 2015-03-09	3
## 2015-03-18	3
## 2015-03-23	0
## 2015-03-30	2
## 2015-04-01	2
## 2015-04-06	1
## 2015-04-17	3
## 2015-04-21	0
## 2015-04-22	1
## 2015-04-28	0
## 2015-05-06	3
## 2015-05-12	7
## 2015-05-13	7
## 2015-05-14	7
## 2015-05-15	7
## 2015-05-18	7
## 2015-05-29	1
## 2015-06-03	2
## 2015-06-10	4
## 2015-06-15	1
## 2015-06-17	1
## 2015-06-22	0
## 2015-06-25	4
## 2015-06-26	4
## 2015-06-29	4

## 2015-06-30	7
## 2015-07-07	7
## 2015-07-08	7
## 2015-07-09	7
## 2015-07-10	7
## 2015-07-14	1
## 2015-07-28	4
## 2015-07-29	4
## 2015-07-31	1
## 2015-08-03	1
## 2015-08-06	3
## 2015-08-12	1
## 2015-08-13	1
## 2015-08-17	6
## 2015-08-18	6
## 2015-08-25	6
## 2015-09-01	1
## 2015-09-04	1
## 2015-09-10	2
## 2015-09-17	9
## 2015-09-29	9
## 2015-10-05	1
## 2015-10-06	1
## 2015-10-08	0
## 2015-10-09	3
## 2015-10-19	3
## 2015-10-23	0
## 2015-10-27	2
## 2015-10-28	2
## 2015-11-20	1
## 2015-12-01	0
## 2015-12-03	3
## 2015-12-08	1
## 2015-12-15	3
## 2015-12-16	3
## 2015-12-22	0
## 2015-12-23	0
## 2015-12-30	1
## 2015-12-31	11
## 2016-01-06	11
## 2016-01-15	11
## 2016-01-19	11
## 2016-01-26	2
## 2016-01-27	2
## 2016-02-03	2
## 2016-02-04	5
## 2016-02-05	5
## 2016-02-10	5
## 2016-02-18	1
## 2016-02-19	0

## 2016-02-24	2
## 2016-02-25	0
## 2016-03-04	1
## 2016-03-11	0
## 2016-03-15	1
## 2016-03-16	0
## 2016-03-23	4
## 2016-03-24	1
## 2016-03-31	2
## 2016-04-07	2
## 2016-04-08	2
## 2016-04-14	0
## 2016-04-25	1
## 2016-04-26	3
## 2016-05-04	2
## 2016-05-10	2
## 2016-05-19	2
## 2016-05-23	1
## 2016-05-24	0
## 2016-05-27	0
## 2016-06-07	1
## 2016-06-08	0
## 2016-06-09	3
## 2016-06-13	3
## 2016-06-14	3
## 2016-06-17	0
## 2016-06-20	0
## 2016-06-21	1
## 2016-06-22	1
## 2016-06-23	2
## 2016-06-27	2
## 2016-07-25	0
## 2016-07-29	2
## 2016-08-03	0
## 2016-08-09	0
## 2016-08-12	1
## 2016-08-24	3
## 2016-08-29	1
## 2016-09-06	3
## 2016-09-12	1
## 2016-09-15	3
## 2016-09-16	3
## 2016-09-23	0
## 2016-09-26	0
## 2016-09-29	1
## 2016-10-03	0
## 2016-10-06	2
## 2016-10-11	4
## 2016-10-12	4
## 2016-10-25	4

## 2016-10-27	4
## 2016-10-28	4
## 2016-10-31	1
## 2016-11-02	1
## 2016-11-03	1
## 2016-11-04	0
## 2016-11-07	0
## 2016-11-08	0
## 2016-11-17	0
## 2016-11-21	0
## 2016-11-25	2
## 2016-11-30	3
## 2016-12-02	3
## 2016-12-05	2
## 2016-12-08	2
## 2016-12-09	2
## 2016-12-14	1
## 2016-12-16	1
## 2017-01-12	1
## 2017-01-26	2
## 2017-02-02	5
## 2017-02-07	5
## 2017-02-14	7
## 2017-02-17	7
## 2017-02-24	7
## 2017-02-27	1
## 2017-02-28	1
## 2017-03-02	2
## 2017-03-07	1
## 2017-03-15	0
## 2017-03-21	6
## 2017-03-22	6
## 2017-03-31	1
## 2017-04-06	2
## 2017-04-13	2
## 2017-04-17	0
## 2017-04-18	1
## 2017-04-25	0
## 2017-05-02	1
## 2017-05-05	0
## 2017-05-08	2
## 2017-05-12	1
## 2017-05-18	1
## 2017-05-25	1
## 2017-05-30	0
## 2017-06-05	1
## 2017-06-09	1
## 2017-06-14	2
## 2017-06-22	0
## 2017-06-27	2

## 2017-07-05	1
## 2017-07-10	0
## 2017-07-11	0
## 2017-07-12	1
## 2017-07-14	1
## 2017-07-21	4
## 2017-07-24	4
## 2017-07-26	0
## 2017-07-27	0
## 2017-07-28	1
## 2017-07-31	1
## 2017-08-03	2
## 2017-08-10	3
## 2017-08-15	1
## 2017-08-25	1
## 2017-08-29	0
## 2017-08-30	1
## 2017-09-15	1
## 2017-09-25	4
## 2017-09-28	1
## 2017-10-02	0
## 2017-10-10	7
## 2017-10-16	7
## 2017-10-20	1
## 2017-10-31	3
## 2017-11-01	3
## 2017-11-02	3
## 2017-11-06	2
## 2017-11-15	1
## 2017-11-20	1
## 2017-11-21	1
## 2017-11-28	8
## 2017-11-29	8
## 2017-12-05	8
## 2017-12-06	8
## 2017-12-07	8
## 2017-12-11	0
## 2017-12-14	1
## 2017-12-18	4
## 2018-01-10	2
## 2018-01-12	1
## 2018-01-16	1
## 2018-01-17	2
## 2018-01-23	1
## 2018-01-25	0
## 2018-01-26	0
## 2018-01-31	0
## 2018-02-01	2
## 2018-02-06	0
## 2018-02-26	4

## 2018-03-02	1
## 2018-03-06	0
## 2018-03-08	1
## 2018-03-09	0
## 2018-03-13	1
## 2018-03-15	7
## 2018-03-16	7
## 2018-03-26	1
## 2018-03-28	0
## 2018-04-03	0
## 2018-04-10	0
## 2018-04-17	3
## 2018-04-18	3
## 2018-04-20	3
## 2018-04-23	2
## 2018-04-30	1
## 2018-05-01	1
## 2018-05-02	1
## 2018-05-03	1
## 2018-05-09	3
## 2018-05-10	3
## 2018-05-16	0
## 2018-05-18	0
## 2018-05-22	1
## 2018-05-31	1
## 2018-06-06	2
## 2018-06-14	1
## 2018-06-15	1
## 2018-06-18	0
## 2018-06-28	0
## 2018-07-02	1
## 2018-07-03	1
## 2018-07-06	1
## 2018-07-10	2
## 2018-07-17	5
## 2018-07-19	5
## 2018-07-20	5
## 2018-07-26	3
## 2018-07-30	3
## 2018-08-01	0
## 2018-08-03	0
## 2018-08-06	2
## 2018-08-09	0
## 2018-08-13	1
## 2018-08-15	6
## 2018-08-22	6
## 2018-08-23	0
## 2018-08-29	1
## 2018-08-30	1
## 2018-08-31	3

## 2018-09-05	3
## 2018-09-18	1
## 2018-09-19	1
## 2018-09-21	2
## 2018-09-25	1
## 2018-09-28	3
## 2018-10-09	5
## 2018-10-16	3
## 2018-10-22	2
## 2018-10-29	2
## 2018-10-31	0
## 2018-11-05	0
## 2018-11-06	0
## 2018-11-08	2
## 2018-11-23	0
## 2018-11-26	1
## 2018-11-29	1
## 2018-12-10	0
## 2018-12-11	1
## 2018-12-14	3
## 2018-12-17	3
## 2018-12-18	3
## 2018-12-21	2
## 2018-12-28	1
## 2019-01-02	2
## 2019-01-08	0
## 2019-01-09	1
## 2019-01-11	1
## 2019-01-14	1
## 2019-01-15	0
## 2019-01-16	0
## 2019-01-17	0
## 2019-01-29	2
## 2019-01-30	1
## 2019-02-05	3
## 2019-02-12	2
## 2019-02-19	3
## 2019-02-21	3
## 2019-02-25	10
## 2019-02-26	10
## 2019-02-28	10
## 2019-03-05	10
## 2019-03-06	10
## 2019-03-18	3
## 2019-03-28	1
## 2019-04-01	0
## 2019-04-12	3
## 2019-04-16	0
## 2019-04-22	0
## 2019-04-24	1

## 2019-04-26	0
## 2019-04-30	2
## 2019-05-01	2
## 2019-05-10	3
## 2019-05-14	0
## 2019-05-21	2
## 2019-06-11	1
## 2019-06-17	0
## 2019-06-24	1
## 2019-06-26	0
## 2019-07-09	0
## 2019-07-11	0
## 2019-07-15	1
## 2019-07-17	4
## 2019-07-18	4
## 2019-07-24	1
## 2019-08-02	1
## 2019-08-06	0
## 2019-08-07	0
## 2019-08-13	3
## 2019-08-15	0
## 2019-08-19	2
## 2019-08-28	0
## 2019-08-30	3
## 2019-09-10	0
## 2019-09-11	0
## 2019-09-18	6
## 2019-09-19	6
## 2019-09-30	0
## 2019-10-03	2
## 2019-10-07	4
## 2019-10-08	4
## 2019-10-11	0
## 2019-10-15	0
## 2019-10-21	0
## 2019-10-22	2
## 2019-10-24	2
## 2019-10-25	0
## 2019-11-04	4
## 2019-11-11	3
## 2019-11-19	3
## 2019-11-21	3
## 2019-11-26	0
## 2019-12-03	0
## 2019-12-04	5
## 2019-12-05	5
## 2019-12-06	5
## 2019-12-12	0
## 2019-12-16	0
## 2019-12-17	0

## 2020-01-03	3
## 2020-01-10	0
## 2020-01-15	0
## 2020-01-17	2
## 2020-01-21	2
## 2020-01-22	0
## 2020-01-29	3
## 2020-02-04	0
## 2020-02-11	0
## 2020-02-19	3
## 2020-02-24	2
## 2020-03-03	1
## 2020-03-04	3
## 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	GLM
## 2012-03-06	3.99	5.2	4	4.41654819611789
## 2012-03-09	3.982	3.2	4	3.89724852476453
## 2012-03-13	3	2.4	3	3.28791137748239
## 2012-03-14	3	4	3	3.92381667125139
## 2012-03-20	1	1	1	1.12106526722855
## 2012-03-23	1	1.2	1	1.3072109671944
## 2012-04-04	3	4.2	3	3.69993196664257
## 2012-04-10	1	1.2	1	1.41266916574652
## 2012-04-26	-1.15818465928896e-15	0	0	-0.452819764655824
## 2012-05-04	-1.25410792861658e-15	0	0	-0.554119880886433
## 2012-05-17	1.998	3.2	2	3.22495659139115
## 2012-05-21	1.006	1	1	1.63595830445111
## 2012-05-30	3	2.8	3	3.43029352951083
## 2012-06-08	1	0.4	1	1.2030631348265
## 2012-06-12	-8.33555446888568e-16	0	0	-0.224021690889782
## 2012-06-13	-9.34363697524532e-16	0.2	0	-0.135159530048213
## 2012-06-14	-9.52571355128384e-16	0	0	0.0103222746595462
## 2012-06-19	1.994	0.6	2	3.35783284748428
## 2012-07-02	-1.0405010186787e-15	0	0	-0.439371581453153
## 2012-07-10	3.998	5.4	4	4.40282230073301
## 2012-07-13	2	2.8	2	3.51617750602203
## 2012-07-19	-1.16928688953521e-15	0	0	-0.664651493186763
## 2012-07-20	4.996	5.4	5	4.06308645730994
## 2012-07-30	2	2.2	2	3.11910981780276
## 2012-07-31	2	2.6	2	3.40341493741573
## 2012-08-01	1.994	3.6	2	3.26500853831038
## 2012-08-09	1	1	1	1.39734533852713
## 2012-08-14	8	5.4	7.45238095238095	4.69914292426322
## 2012-08-17	8	6.6	7.45238095238095	4.55468469253308

## 2012-08-20	8	6.8	7.45238095238095	4.68048979687643
## 2012-08-27	1.996	3.2	2	3.47423631712925
## 2012-08-28	2	1.8	2	3.37990725867635
## 2012-08-29	1	0.4	1	1.10848836991716
## 2012-08-31	-1.25943699913478e-15	0	0	-0.290123002320069
## 2012-09-06	2	2.8	2	3.36041763560902
## 2012-09-13	2	1.8	2	3.17715939907413
## 2012-09-14	2	1.6	2	3.05302074938274
## 2012-09-18	1.996	2.4	2	2.72437328063717
## 2012-09-20	-1.30384592011978e-15	0	0	-0.547929664495428
## 2012-09-24	2	2.2	2	3.50735270789961
## 2012-09-25	2	2.4	2	2.64135462630274
## 2012-09-26	-1.15196741035106e-15	0	0	-0.476404268753255
## 2012-10-02	1	1	1	1.11271481626609
## 2012-10-11	1	1	1	1.70787648017067
## 2012-10-16	1	1	1	1.44332780534918
## 2012-10-17	4	3.8	4	4.02144904137939
## 2012-10-18	4	7.4	4	4.422368588763
## 2012-10-25	2	4	2	3.45908000045449
## 2012-11-02	4	2.6	4	4.58871996572467
## 2012-11-06	3.97	5	4	3.93843484287195
## 2012-11-07	2.998	3.4	3	3.6695998390939
## 2012-11-12	3	2	3	3.51511012859404
## 2012-11-14	1.002	1	1	1.31922237408604
## 2012-11-20	1.012	0.6	1	1.59730544888093
## 2012-12-04	2.988	3	3	3.92688484464847
## 2012-12-05	2.998	3	3	3.87711082404679
## 2012-12-06	3	2.8	3	3.5492686145114
## 2012-12-17	3	4.4	3	3.96462336154769
## 2012-12-18	3	2.6	3	3.2493887516163
## 2012-12-19	-9.77884440089838e-16	0	0	-0.523429132702788
## 2012-12-21	1	1	1	1.55104761098905
## 2012-12-24	1	1.2	1	1.29720854845336
## 2012-12-31	1	1.2	1	1.28690881525869
## 2013-01-04	3	2.2	3	3.34142308035963
## 2013-01-08	2.996	3	3	3.9251373047454
## 2013-01-09	3	2.4	3	3.46195395117891
## 2013-01-16	4.99	6	5	4.55818772251961
## 2013-01-18	1	1	1	1.80313295653924
## 2013-01-22	1.004	1.2	1	1.21916509194044
## 2013-01-25	3	4.2	3	3.49987670548488
## 2013-01-31	2	2.8	2	3.11265973244273
## 2013-02-22	2	2.8	2	3.00001391212326
## 2013-02-25	2	2.6	2	3.51298382652468
## 2013-02-26	1.994	2.6	2	2.7358736684979
## 2013-03-01	-1.28652644093563e-15	0	0	-0.504043024568033
## 2013-03-04	2.006	1.4	2	3.08588902352154
## 2013-03-06	1.996	3.4	2	2.62994757687873
## 2013-03-25	5.98	2.6	6	3.80921695414651
## 2013-03-26	-1.0653700144303e-15	0	0	-0.580968295408387

## 2013-03-27	3	4	3	3.45649675505754
## 2013-04-05	2	2.4	2	2.80824264230336
## 2013-04-10	-1.17150733558447e-15	0	0	-0.593473503140289
## 2013-04-11	-1.30384592011978e-15	0	0	-0.534158530853193
## 2013-04-17	1	1	1	1.64124657980014
## 2013-04-19	2.996	5	3	3.72574453979792
## 2013-04-24	3	4	3	3.1080536132497
## 2013-05-03	4.002	3.8	4	4.35088905886796
## 2013-05-13	1	1	1	1.34775173978214
## 2013-05-14	1	1	1	1.60520467075252
## 2013-05-17	-1.28475008409623e-15	0	0	-0.497865005738585
## 2013-05-20	-1.12976294985856e-15	0	0	-0.446813985969121
## 2013-06-06	-1.29052324382428e-15	0	0	-0.519068632067185
## 2013-06-10	3	3.2	3	3.86387923977987
## 2013-06-12	3	3	3	3.02066206178617
## 2013-06-14	-1.37934108579429e-15	0	0	-0.517185160848975
## 2013-06-17	1	1	1	1.4709283607648
## 2013-06-25	-1.05693231944315e-15	0	0	-0.25960613011768
## 2013-06-28	1	1	1	1.6503808180208
## 2013-07-10	1	1	1	1.04046512606865
## 2013-07-11	-9.96536186903541e-16	0	0	-0.466507704347712
## 2013-07-15	1	1	1	1.05884394304205
## 2013-07-24	2.996	2.8	3	3.08337359914447
## 2013-07-25	-1.15996101612836e-15	0	0	-0.612189944789337
## 2013-07-29	1	1	1	1.40719309213059
## 2013-08-09	1	1	1	1.50686510834075
## 2013-08-13	2.002	2.8	2	2.99117914070592
## 2013-08-21	-1.0964562591198e-15	0	0	-0.656615664073211
## 2013-08-26	2	2.2	2	2.42676763850533
## 2013-09-04	-8.60200799479571e-16	0	0	-0.346559196088933
## 2013-09-05	-1.0538236949742e-15	0	0	-0.301371311939924
## 2013-09-09	1	1.4	1	0.951629562107645
## 2013-09-12	3	2.8	3	3.46119901868491
## 2013-09-16	3	2.4	3	3.11037841387591
## 2013-09-25	2.996	2.6	3	3.14200044817976
## 2013-09-27	3	2.4	3	3.38538405720198
## 2013-10-03	-9.31699162265431e-16	0.2	0	-0.683141335924609
## 2013-10-09	3	2	3	2.95660255239912
## 2013-10-10	-1.12931886064871e-15	0	0	-0.624552973333524
## 2013-10-11	-1.25277566098703e-15	0	0	-0.682574565041363
## 2013-10-14	1	0.6	1	1.23676844006343
## 2013-10-16	1	1.6	1	1.39959736035232
## 2013-10-22	3	4.2	3	3.08904515564585
## 2013-10-28	2	3.6	2	2.63393195861932
## 2013-10-31	1	1.2	1	1.41166774116698
## 2013-11-05	2	2.2	2	2.27184507069297
## 2013-11-08	1	1.2	1	1.5201163914207
## 2013-11-11	0.998	1.6	1	1.10651410139173
## 2013-11-13	-1.00230934663159e-15	0.2	0	-0.713460189106234
## 2013-11-15	2.988	2.6	3	2.76969837650424

## 2013-11-18	2.992	3.2	3	3.12307029779369
## 2013-11-20	3	2	3	3.10787345550896
## 2013-11-26	2.996	1.6	3	3.52842869955518
## 2013-11-27	3	2.6	3	3.48471996118792
## 2013-12-10	1	1.2	1	1.03783813162165
## 2013-12-23	1	0.4	1	1.18927852266693
## 2013-12-26	1	1.2	1	1.22594334351813
## 2014-01-15	1	1	1	0.627525688731033
## 2014-01-22	4.988	3	5	3.81435133978871
## 2014-01-28	1	1.2	1	1.15207599710359
## 2014-01-29	1	1.4	1	0.798322785085855
## 2014-01-31	1	1.4	1	1.0416382372169
## 2014-02-03	1	2.4	1	1.23590183122316
## 2014-02-24	-3.43725048423948e-16	0	0	-0.441892420943152
## 2014-02-27	1	0.2	1	1.2107514242155
## 2014-03-03	-3.71702668644502e-16	0.2	0	-0.720860877989637
## 2014-03-11	3	3.8	3	2.83881705605336
## 2014-03-19	6	2.8	6	3.5312188756809
## 2014-03-20	6	2.8	6	3.7545226618541
## 2014-03-21	6	3.4	6	3.85321691565984
## 2014-03-24	6	3.2	6	3.78514865471534
## 2014-03-26	6	2.6	6	3.51269562094291
## 2014-03-31	-7.49178497017056e-16	0	0	-0.571529557868325
## 2014-04-01	3	3	3	2.76709574142933
## 2014-04-08	-1.02273745028469e-15	0	0	-0.43550261896036
## 2014-04-09	2	1.8	2	2.0728190829934
## 2014-04-11	2	1.6	2	2.27389773690405
## 2014-04-14	-1.06581410364015e-15	0	0	-0.671913693383352
## 2014-04-25	4	2.8	4	3.70252252870452
## 2014-05-01	1	1.6	1	1.28270050421987
## 2014-05-05	1	0.8	1	0.753872811974462
## 2014-05-13	2	3.2	2	3.02716809235263
## 2014-05-19	-9.40136857252583e-16	0	0	-0.258379429571149
## 2014-05-20	-1.05782049786285e-15	0	0	-0.388095325008374
## 2014-05-21	-1.03828057262945e-15	0	0	-0.134402246536188
## 2014-05-28	1	1.2	1	1.5298606441995
## 2014-05-29	2	1.6	2	2.92178496510371
## 2014-05-30	2	2.4	2	2.85143332596339
## 2014-06-02	2	3	2	2.48145217859519
## 2014-06-05	-1.14841469667226e-15	0	0	-0.815490617454947
## 2014-06-06	-1.32072131009409e-15	0	0	-0.784788701433568
## 2014-06-16	1	1.8	1	0.782563780792834
## 2014-06-17	-7.55839835164807e-16	0	0	-0.664933331102253
## 2014-06-24	1	1.2	1	1.02554111233476
## 2014-07-08	3	3	3	2.66579137856696
## 2014-07-14	3	1.8	3	3.21969894857891
## 2014-07-18	1	1.6	1	1.56178089709938
## 2014-07-29	-9.2281737806843e-16	0	0	-0.299766326609043
## 2014-08-04	2	1.8	2	3.03460192345986
## 2014-08-05	1.998	3.4	2	2.99779830726122

## 2014-08-08	1	1.4	1	1.22765028997302
## 2014-08-12	1.008	1	1	2.16586333129073
## 2014-08-14	0.0059999999999938	0	0	0.245295241335644
## 2014-08-18	0.00399999999999947	0	0	0.287543505746747
## 2014-08-22	0.0199999999999995	0	0	0.2266772578444
## 2014-08-25	1.012	0	1	2.16131930062607
## 2014-09-02	2	2	2	2.51121771038237
## 2014-09-05	2	2.4	2	2.83769700323085
## 2014-09-09	2	3	2	2.43542820606356
## 2014-09-11	5	3	5	4.00811107098575
## 2014-09-23	-8.01581023779363e-16	0	0	-0.821226899322059
## 2014-09-25	1	1.4	1	0.884564656318213
## 2014-09-26	3	2.4	3	3.29023076311552
## 2014-09-30	3	4.2	3	3.3454953353014
## 2014-10-01	3	2.8	3	2.82773345434501
## 2014-10-02	-9.9031893796564e-16	0	0	-0.763081562482324
## 2014-10-06	1.992	3	2	3.01792286166821
## 2014-10-09	3	2.6	3	3.15795020494442
## 2014-10-15	-9.68114477473137e-16	0	0	-0.388063122107408
## 2014-10-16	-1.02673425317334e-15	0	0	-0.455016682915137
## 2014-10-21	2	1.6	2	3.05736138537216
## 2014-10-29	1	1.8	1	0.794912944724476
## 2014-11-04	2	3.4	2	2.82492947819927
## 2014-11-07	1	1	1	0.921266342999378
## 2014-11-14	2.996	2.8	3	3.37700099872378
## 2014-11-18	2.996	3.4	3	3.42586016597331
## 2014-12-08	2	2.4	2	2.69766510566287
## 2014-12-09	1	1	1	1.49224850247813
## 2014-12-10	1	1.6	1	0.901638452828156
## 2014-12-22	1	1	1	1.14589762632079
## 2014-12-26	2.006	1.8	2	2.46118573755588
## 2014-12-30	-1.16573417585641e-15	0	0	-0.657146169543687
## 2014-12-31	-1.09912079437891e-15	0	0	-0.689199499225842
## 2015-01-22	-1.00142116821189e-15	0	0	-0.112067972937106
## 2015-02-09	1.996	2.2	2	2.69144732611981
## 2015-02-18	2	2.2	2	3.19129634018514
## 2015-02-26	-1.10222941884786e-15	0	0	-0.699180700429814
## 2015-03-06	2.99	4.8	3	3.61502029330507
## 2015-03-09	2.996	4.2	3	3.68547424879701
## 2015-03-18	2.992	4.4	3	3.53126378163703
## 2015-03-23	-9.61009050115536e-16	0	0	-0.652930221045058
## 2015-03-30	2	1.4	2	2.86546184768936
## 2015-04-01	2	2.4	2	2.51645303116102
## 2015-04-06	1	1	1	1.35737582096745
## 2015-04-17	3	3.6	3	3.71482067168454
## 2015-04-21	-1.08801856413265e-15	0	0	-0.631311317073207
## 2015-04-22	1	1	1	1.31823047686476
## 2015-04-28	-1.17239551400417e-15	0	0	-0.711851162784146
## 2015-05-06	2.996	2.8	3	3.79652799882655
## 2015-05-12	7	2.8	7.45238095238095	4.09456649467265

## 2015-05-13	7	5.8	7.45238095238095	4.29683219575849
## 2015-05-14	7	6	7.45238095238095	4.33586918074476
## 2015-05-15	7	6	7.45238095238095	4.39270555679356
## 2015-05-18	7	5.6	7.45238095238095	4.42440754699721
## 2015-05-29	1	1	1	1.3318075568755
## 2015-06-03	2	2.6	2	3.16032939683289
## 2015-06-10	4	5.8	4	4.09250778864393
## 2015-06-15	1	1	1	1.30838073665078
## 2015-06-17	1	1.2	1	1.25627478929142
## 2015-06-22	-1.0413891970984e-15	0	0	-0.599594471336859
## 2015-06-25	4	5.8	4	4.17336318583298
## 2015-06-26	4	5.8	4	4.0498312285939
## 2015-06-29	4	2.4	4	3.70440275125594
## 2015-06-30	7	3.4	7.45238095238095	4.18057695740625
## 2015-07-07	7	4	7.45238095238095	4.37571020803841
## 2015-07-08	7	5.2	7.45238095238095	4.41300577643101
## 2015-07-09	7	5.6	7.45238095238095	4.49882045831644
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## 2015-07-14	1	1	1	1.305950524194
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## 2015-07-31	1	1	1	1.47587422505031
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## 2015-08-06	3	6.8	3	3.93433524467327
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## 2015-09-01	1	1	1	1.49409146782693
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## 2015-09-10	2	2.6	2	2.92430696633589
## 2015-09-17	10.26443333333333	6.4	10	4.5807509882967
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## 2015-10-05	1	1	1	1.55087090029792
## 2015-10-06	1	1.2	1	1.1879229043993
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## 2015-10-09	3	2.2	3	3.20418050034571
## 2015-10-19	3	4.2	3	3.95077472665856
## 2015-10-23	-1.30073729565083e-15	0	0	-0.304404721113452
## 2015-10-27	2	4.2	2	3.4523865020246
## 2015-10-28	1.996	2.6	2	2.99342470811357
## 2015-11-20	1	0.8	1	1.46978566158977
## 2015-12-01	-1.08180131519475e-15	0	0	-0.520608311160395
## 2015-12-03	2.996	3.6	3	3.85438850912975
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## 2015-12-16	2.998	2.4	3	3.5507383133817
## 2015-12-22	-1.04360964314765e-15	0	0	-0.671137168353929
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## 2015-12-30		1	1	1	1.36871186276534
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## 2016-02-18		0.998	1	1	1.22939480758066
## 2016-02-19	-1.01740837976649e-15		0	0	-0.502571412475676
## 2016-02-24		1.998	3.6	2	3.06246310025849
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## 2016-03-04		1	1	1	1.47854954494376
## 2016-03-11	-1.22390986234677e-15		0	0	-0.563134120064203
## 2016-03-15		1.004	1	1	1.27577323090239
## 2016-03-16	-1.08357767203415e-15		0	0	-0.548178680955633
## 2016-03-23		3.996	4.2	4	3.9463605774363
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## 2016-05-23		1	1.2	1	1.20722357904352
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## 2016-06-07		1	1	1	1.13129262991562
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## 2016-06-23		2	2.4	2	2.99468391207864
## 2016-06-27		2.022	2	2	2.86742446668696
## 2016-07-25	-1.11199938146456e-15		0	0	-0.54260429492881
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## 2016-08-29	1	1	1	1.44511785878444
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## 2016-09-29	1	1.2	1	1.09711637319311
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## 2016-10-11	3.998	4	4	4.16261230592196
## 2016-10-12	3.992	5.4	4	4.1150381645739
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## 2016-10-27	4	5.6	4	4.2832870377778
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## 2016-12-05	1.996	2.4	2	3.17521114901559
## 2016-12-08	2	2.2	2	3.14396579110814
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## 2016-12-14	1	1.2	1	1.01477959264282
## 2016-12-16	1	1	1	1.44588267464637
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## 2017-01-26	1.988	2.2	2	3.42124417847452
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## 2017-02-14	7	3 7.45238095238095		4.26410258450543
## 2017-02-17	7	5.6 7.45238095238095		4.50988888051932
## 2017-02-24	7	4.6 7.45238095238095		4.00625968191927
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##	2017-05-25		1	1	1	1.6894716878383
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##	2017-07-11	-1.0547118733939e-15	0	0	-0.511583765946055	
##	2017-07-12		1	1	1	1.42685180809146
##	2017-07-14		1	1	1	1.73306507543972
##	2017-07-21		3.998	4.4	4	4.32614419784416
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##	2017-07-26	-1.04716235682645e-15	0	0	-0.55490126479967	
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##	2017-10-10		7	4.8	7.45238095238095	4.33057576090273
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##	2017-10-20		1	1	1	1.56556017623913
##	2017-10-31		2.988	2.8	3	3.62291442213849
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##	2017-11-29		7.99	3.2	7.45238095238095	4.29558696981531
##	2017-12-05		7.99	5	7.45238095238095	4.32366787639616
##	2017-12-06		7.99	4.8	7.45238095238095	4.31740668757388
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## 2018-01-26	-1.36557432028894e-15	0	0	-0.617089704656883
## 2018-01-31	-1.048494624456e-15	0	0	-0.524053001436448
## 2018-02-01	2	1.6	2	2.76171652458328
## 2018-02-06	-1.10977893541531e-15	0	0	-0.662458227684274
## 2018-02-26	4	6.2	4	4.24402616430075
## 2018-03-02	1	1	1	1.67223713105413
## 2018-03-06	-1.11288755988426e-15	0	0	-0.619956556321605
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## 2018-05-03	1	1	1	1.06006279372082
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## 2018-05-10	2.994	4.2	3	3.33943911316523
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## 2018-05-22	1	1.2	1	1.1584074241787
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## 2018-07-03	1	1	1	1.2822003765801
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## 2018-08-22	6	3	6	3.66282723078706
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## 2018-09-05	3	2.8	3	3.67758473537019
## 2018-09-18	1	0.2	1	1.46150444493404
## 2018-09-19	1	1.2	1	1.43547370081084
## 2018-09-21	2	3.4	2	3.13659256609322
## 2018-09-25	1	1	1	1.49635910307683
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## 2016-06-08	0
## 2016-06-09	3
## 2016-06-13	3
## 2016-06-14	3
## 2016-06-17	0
## 2016-06-20	0
## 2016-06-21	1
## 2016-06-22	1
## 2016-06-23	2

## 2016-06-27	2
## 2016-07-25	0
## 2016-07-29	2
## 2016-08-03	0
## 2016-08-09	0
## 2016-08-12	1
## 2016-08-24	3
## 2016-08-29	1
## 2016-09-06	3
## 2016-09-12	1
## 2016-09-15	3
## 2016-09-16	3
## 2016-09-23	0
## 2016-09-26	0
## 2016-09-29	1
## 2016-10-03	0
## 2016-10-06	2
## 2016-10-11	4
## 2016-10-12	4
## 2016-10-25	4
## 2016-10-27	4
## 2016-10-28	4
## 2016-10-31	1
## 2016-11-02	1
## 2016-11-03	1
## 2016-11-04	0
## 2016-11-07	0
## 2016-11-08	0
## 2016-11-17	0
## 2016-11-21	0
## 2016-11-25	2
## 2016-11-30	3
## 2016-12-02	3
## 2016-12-05	2
## 2016-12-08	2
## 2016-12-09	2
## 2016-12-14	1
## 2016-12-16	1
## 2017-01-12	1
## 2017-01-26	2
## 2017-02-02	5
## 2017-02-07	5
## 2017-02-14	7
## 2017-02-17	7
## 2017-02-24	7
## 2017-02-27	1
## 2017-02-28	1
## 2017-03-02	2
## 2017-03-07	1
## 2017-03-15	0

## 2017-03-21	6
## 2017-03-22	6
## 2017-03-31	1
## 2017-04-06	2
## 2017-04-13	2
## 2017-04-17	0
## 2017-04-18	1
## 2017-04-25	0
## 2017-05-02	1
## 2017-05-05	0
## 2017-05-08	2
## 2017-05-12	1
## 2017-05-18	1
## 2017-05-25	1
## 2017-05-30	0
## 2017-06-05	1
## 2017-06-09	1
## 2017-06-14	2
## 2017-06-22	0
## 2017-06-27	2
## 2017-07-05	1
## 2017-07-10	0
## 2017-07-11	0
## 2017-07-12	1
## 2017-07-14	1
## 2017-07-21	4
## 2017-07-24	4
## 2017-07-26	0
## 2017-07-27	0
## 2017-07-28	1
## 2017-07-31	1
## 2017-08-03	2
## 2017-08-10	3
## 2017-08-15	1
## 2017-08-25	1
## 2017-08-29	0
## 2017-08-30	1
## 2017-09-15	1
## 2017-09-25	4
## 2017-09-28	1
## 2017-10-02	0
## 2017-10-10	7
## 2017-10-16	7
## 2017-10-20	1
## 2017-10-31	3
## 2017-11-01	3
## 2017-11-02	3
## 2017-11-06	2
## 2017-11-15	1
## 2017-11-20	1

## 2017-11-21	1
## 2017-11-28	8
## 2017-11-29	8
## 2017-12-05	8
## 2017-12-06	8
## 2017-12-07	8
## 2017-12-11	0
## 2017-12-14	1
## 2017-12-18	4
## 2018-01-10	2
## 2018-01-12	1
## 2018-01-16	1
## 2018-01-17	2
## 2018-01-23	1
## 2018-01-25	0
## 2018-01-26	0
## 2018-01-31	0
## 2018-02-01	2
## 2018-02-06	0
## 2018-02-26	4
## 2018-03-02	1
## 2018-03-06	0
## 2018-03-08	1
## 2018-03-09	0
## 2018-03-13	1
## 2018-03-15	7
## 2018-03-16	7
## 2018-03-26	1
## 2018-03-28	0
## 2018-04-03	0
## 2018-04-10	0
## 2018-04-17	3
## 2018-04-18	3
## 2018-04-20	3
## 2018-04-23	2
## 2018-04-30	1
## 2018-05-01	1
## 2018-05-02	1
## 2018-05-03	1
## 2018-05-09	3
## 2018-05-10	3
## 2018-05-16	0
## 2018-05-18	0
## 2018-05-22	1
## 2018-05-31	1
## 2018-06-06	2
## 2018-06-14	1
## 2018-06-15	1
## 2018-06-18	0
## 2018-06-28	0

## 2018-07-02	1
## 2018-07-03	1
## 2018-07-06	1
## 2018-07-10	2
## 2018-07-17	5
## 2018-07-19	5
## 2018-07-20	5
## 2018-07-26	3
## 2018-07-30	3
## 2018-08-01	0
## 2018-08-03	0
## 2018-08-06	2
## 2018-08-09	0
## 2018-08-13	1
## 2018-08-15	6
## 2018-08-22	6
## 2018-08-23	0
## 2018-08-29	1
## 2018-08-30	1
## 2018-08-31	3
## 2018-09-05	3
## 2018-09-18	1
## 2018-09-19	1
## 2018-09-21	2
## 2018-09-25	1
## 2018-09-28	3
## 2018-10-09	5
## 2018-10-16	3
## 2018-10-22	2
## 2018-10-29	2
## 2018-10-31	0
## 2018-11-05	0
## 2018-11-06	0
## 2018-11-08	2
## 2018-11-23	0
## 2018-11-26	1
## 2018-11-29	1
## 2018-12-10	0
## 2018-12-11	1
## 2018-12-14	3
## 2018-12-17	3
## 2018-12-18	3
## 2018-12-21	2
## 2018-12-28	1
## 2019-01-02	2
## 2019-01-08	0
## 2019-01-09	1
## 2019-01-11	1
## 2019-01-14	1
## 2019-01-15	0

## 2019-01-16	0
## 2019-01-17	0
## 2019-01-29	2
## 2019-01-30	1
## 2019-02-05	3
## 2019-02-12	2
## 2019-02-19	3
## 2019-02-21	3
## 2019-02-25	10
## 2019-02-26	10
## 2019-02-28	10
## 2019-03-05	10
## 2019-03-06	10
## 2019-03-18	3
## 2019-03-28	1
## 2019-04-01	0
## 2019-04-12	3
## 2019-04-16	0
## 2019-04-22	0
## 2019-04-24	1
## 2019-04-26	0
## 2019-04-30	2
## 2019-05-01	2
## 2019-05-10	3
## 2019-05-14	0
## 2019-05-21	2
## 2019-06-11	1
## 2019-06-17	0
## 2019-06-24	1
## 2019-06-26	0
## 2019-07-09	0
## 2019-07-11	0
## 2019-07-15	1
## 2019-07-17	4
## 2019-07-18	4
## 2019-07-24	1
## 2019-08-02	1
## 2019-08-06	0
## 2019-08-07	0
## 2019-08-13	3
## 2019-08-15	0
## 2019-08-19	2
## 2019-08-28	0
## 2019-08-30	3
## 2019-09-10	0
## 2019-09-11	0
## 2019-09-18	6
## 2019-09-19	6
## 2019-09-30	0
## 2019-10-03	2

```

## 2019-10-07      4
## 2019-10-08      4
## 2019-10-11      0
## 2019-10-15      0
## 2019-10-21      0
## 2019-10-22      2
## 2019-10-24      2
## 2019-10-25      0
## 2019-11-04      4
## 2019-11-11      3
## 2019-11-19      3
## 2019-11-21      3
## 2019-11-26      0
## 2019-12-03      0
## 2019-12-04      5
## 2019-12-05      5
## 2019-12-06      5
## 2019-12-12      0
## 2019-12-16      0
## 2019-12-17      0
## 2020-01-03      3
## 2020-01-10      0
## 2020-01-15      0
## 2020-01-17      2
## 2020-01-21      2
## 2020-01-22      0
## 2020-01-29      3
## 2020-02-04      0
## 2020-02-11      0
## 2020-02-19      3
## 2020-02-24      2
## 2020-03-03      1
## 2020-03-04      3
## results        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.

```

sYELP1$Date <- row.names(sYELP1)
testingSet$Date <- row.names(testingSet)
Results_round$Date <- row.names(Results_round)

sYELP1 <- merge(testingSet,Results_round, by.x='Date', by.y='Date')
tbl <- rbind(head(sYELP1),tail(sYELP1))
tbl

```

##	Date	DayOfWeek	stockDayValue	lag1	today2lag1	decrDaysThisCycle		
## 1	2012-03-06	Tuesday	20.50	20.99	0.9766556	4		
## 2	2012-03-09	Friday	19.80	20.00	0.9899999	4		
## 3	2012-03-13	Tuesday	23.30	22.49	1.0360160	3		
## 4	2012-03-14	Wednesday	22.32	23.30	0.9579400	3		
## 5	2012-03-20	Tuesday	22.90	22.99	0.9960853	1		
## 6	2012-03-23	Friday	23.18	23.22	0.9982774	1		
## 600	2020-02-04	Tuesday	34.02	32.94	1.0327869	0		
## 601	2020-02-11	Tuesday	34.76	34.20	1.0163742	0		
## 602	2020-02-19	Wednesday	34.04	34.57	0.9846688	3		
## 603	2020-02-24	Monday	32.42	34.00	0.9535294	2		
## 604	2020-03-03	Tuesday	30.59	31.65	0.9665087	1		
## 605	2020-03-04	Wednesday	31.39	30.59	1.0261523	3		
##	nTimesDecrDayCountsOccurs		todayLessThanlag1		incrDaysThisCycle			
## 1	25		1		0			
## 2	25		1		2			
## 3	74		0		2			
## 4	74		1		0			
## 5	273		1		2			
## 6	273		1		3			
## 600	485		0		3			
## 601	485		0		4			
## 602	74		1		1			
## 603	122		1		1			
## 604	273		1		1			
## 605	74		0		1			
##	nTimesIncrDayCountsOccurs		NextDayPrice	RandomForest_round	KNN_round			
## 1	494		20.25	4	5			
## 2	131		22.49	4	3			
## 3	131		22.32	3	2			
## 4	494		21.75	3	4			
## 5	131		23.12	1	1			
## 6	75		24.60	1	1			
## 600	75		34.66	0	0			
## 601	29		35.36	0	0			
## 602	263		34.64	3	2			
## 603	263		33.51	2	2			
## 604	263		31.39	1	1			
## 605	263		29.14	3	3			
##	Rpart_round	GLM_round	DecreasingDaysThisCycle					
## 1	4	4	4					
## 2	4	4	4					
## 3	3	3	3					
## 4	3	4	3					
## 5	1	1	1					
## 6	1	1	1					
## 600	0	0	0					
## 601	0	0	0					
## 602	3	3	3					
## 603	2	3	2					

```

## 604          1          1          1
## 605          3          3          3

Results_round$RandomForest_round <-
  as.numeric(paste(Results_round$RandomForest_round))
Results_round$KNN_round <-
  as.numeric(paste(Results_round$KNN_round))
Results_round$Rpart_round <-
  as.numeric(paste(Results_round$Rpart_round))
Results_round$GLM_round <-
  as.numeric(paste(Results_round$GLM_round))
Results_round$DecreasingDaysThisCycle <-
  as.numeric(paste(Results_round$DecreasingDaysThisCycle))

Results_round$mostVoted <- ifelse(

  (Results_round$RandomForest_round==Results_round$KNN_round |
Results_round$RandomForest_round==Results_round$Rpart_round |
Results_round$RandomForest_round==Results_round$GLM_round),

  ifelse(Results_round$KNN_round==Results_round$Rpart_round |
Results_round$KNN_round==Results_round$GLM_round,
    Results_round$RandomForest_round,
    ifelse(Results_round$Rpart_round ==Results_round$GLM_round,
      Results_round$Rpart_round,
      Results_round$RandomForest_round)),

  ifelse(Results_round$KNN_round==Results_round$Rpart_round |
Results_round$KNN_round==Results_round$GLM_round,
    Results_round$KNN_round,
    ifelse(Results_round$Rpart_round==Results_round$GLM_round,
      Results_round$Rpart_round,

  ifelse(Results_round$Rpart_round>Results_round$RandomForest_round,
    Results_round$Rpart_round,
    Results_round$RandomForest_round))

  )
)

sMost <- sum(Results_round$mostVoted==Results_round$DecreasingDaysThisCycle)
lMost <- length(Results_round$DecreasingDaysThisCycle)-1
accMost <- sMost/lMost
accMost

## [1] 0.9867769

Results_round

```

##	RandomForest_round	KNN_round	Rpart_round	GLM_round
## 2012-03-06	4.00	5.00	4.00	4.00
## 2012-03-09	4.00	3.00	4.00	4.00
## 2012-03-13	3.00	2.00	3.00	3.00
## 2012-03-14	3.00	4.00	3.00	4.00
## 2012-03-20	1.00	1.00	1.00	1.00
## 2012-03-23	1.00	1.00	1.00	1.00
## 2012-04-04	3.00	4.00	3.00	4.00
## 2012-04-10	1.00	1.00	1.00	1.00
## 2012-04-26	0.00	0.00	0.00	0.00
## 2012-05-04	0.00	0.00	0.00	0.00
## 2012-05-17	2.00	3.00	2.00	3.00
## 2012-05-21	1.00	1.00	1.00	2.00
## 2012-05-30	3.00	3.00	3.00	3.00
## 2012-06-08	1.00	0.00	1.00	1.00
## 2012-06-12	0.00	0.00	0.00	0.00
## 2012-06-13	0.00	0.00	0.00	0.00
## 2012-06-14	0.00	0.00	0.00	0.00
## 2012-06-19	2.00	1.00	2.00	3.00
## 2012-07-02	0.00	0.00	0.00	0.00
## 2012-07-10	4.00	5.00	4.00	4.00
## 2012-07-13	2.00	3.00	2.00	4.00
## 2012-07-19	0.00	0.00	0.00	0.00
## 2012-07-20	5.00	5.00	5.00	4.00
## 2012-07-30	2.00	2.00	2.00	3.00
## 2012-07-31	2.00	3.00	2.00	3.00
## 2012-08-01	2.00	4.00	2.00	3.00
## 2012-08-09	1.00	1.00	1.00	1.00
## 2012-08-14	8.00	5.00	7.00	5.00
## 2012-08-17	8.00	7.00	7.00	5.00
## 2012-08-20	8.00	7.00	7.00	5.00
## 2012-08-27	2.00	3.00	2.00	3.00
## 2012-08-28	2.00	2.00	2.00	3.00
## 2012-08-29	1.00	0.00	1.00	1.00
## 2012-08-31	0.00	0.00	0.00	0.00
## 2012-09-06	2.00	3.00	2.00	3.00
## 2012-09-13	2.00	2.00	2.00	3.00
## 2012-09-14	2.00	2.00	2.00	3.00
## 2012-09-18	2.00	2.00	2.00	3.00
## 2012-09-20	0.00	0.00	0.00	0.00
## 2012-09-24	2.00	2.00	2.00	4.00
## 2012-09-25	2.00	2.00	2.00	3.00
## 2012-09-26	0.00	0.00	0.00	0.00
## 2012-10-02	1.00	1.00	1.00	1.00
## 2012-10-11	1.00	1.00	1.00	2.00
## 2012-10-16	1.00	1.00	1.00	1.00
## 2012-10-17	4.00	4.00	4.00	4.00
## 2012-10-18	4.00	7.00	4.00	4.00
## 2012-10-25	2.00	4.00	2.00	3.00
## 2012-11-02	4.00	3.00	4.00	5.00

## 2012-11-06	4.00	5.00	4.00	4.00
## 2012-11-07	3.00	3.00	3.00	4.00
## 2012-11-12	3.00	2.00	3.00	4.00
## 2012-11-14	1.00	1.00	1.00	1.00
## 2012-11-20	1.00	1.00	1.00	2.00
## 2012-12-04	3.00	3.00	3.00	4.00
## 2012-12-05	3.00	3.00	3.00	4.00
## 2012-12-06	3.00	3.00	3.00	4.00
## 2012-12-17	3.00	4.00	3.00	4.00
## 2012-12-18	3.00	3.00	3.00	3.00
## 2012-12-19	0.00	0.00	0.00	0.00
## 2012-12-21	1.00	1.00	1.00	2.00
## 2012-12-24	1.00	1.00	1.00	1.00
## 2012-12-31	1.00	1.00	1.00	1.00
## 2013-01-04	3.00	2.00	3.00	3.00
## 2013-01-08	3.00	3.00	3.00	4.00
## 2013-01-09	3.00	2.00	3.00	3.00
## 2013-01-16	5.00	6.00	5.00	5.00
## 2013-01-18	1.00	1.00	1.00	2.00
## 2013-01-22	1.00	1.00	1.00	1.00
## 2013-01-25	3.00	4.00	3.00	3.00
## 2013-01-31	2.00	3.00	2.00	3.00
## 2013-02-22	2.00	3.00	2.00	3.00
## 2013-02-25	2.00	3.00	2.00	4.00
## 2013-02-26	2.00	3.00	2.00	3.00
## 2013-03-01	0.00	0.00	0.00	0.00
## 2013-03-04	2.00	1.00	2.00	3.00
## 2013-03-06	2.00	3.00	2.00	3.00
## 2013-03-25	6.00	3.00	6.00	4.00
## 2013-03-26	0.00	0.00	0.00	0.00
## 2013-03-27	3.00	4.00	3.00	3.00
## 2013-04-05	2.00	2.00	2.00	3.00
## 2013-04-10	0.00	0.00	0.00	0.00
## 2013-04-11	0.00	0.00	0.00	0.00
## 2013-04-17	1.00	1.00	1.00	2.00
## 2013-04-19	3.00	5.00	3.00	4.00
## 2013-04-24	3.00	4.00	3.00	3.00
## 2013-05-03	4.00	4.00	4.00	4.00
## 2013-05-13	1.00	1.00	1.00	1.00
## 2013-05-14	1.00	1.00	1.00	2.00
## 2013-05-17	0.00	0.00	0.00	0.00
## 2013-05-20	0.00	0.00	0.00	0.00
## 2013-06-06	0.00	0.00	0.00	0.00
## 2013-06-10	3.00	3.00	3.00	4.00
## 2013-06-12	3.00	3.00	3.00	3.00
## 2013-06-14	0.00	0.00	0.00	0.00
## 2013-06-17	1.00	1.00	1.00	1.00
## 2013-06-25	0.00	0.00	0.00	0.00
## 2013-06-28	1.00	1.00	1.00	2.00
## 2013-07-10	1.00	1.00	1.00	1.00

## 2013-07-11	0.00	0.00	0.00	0.00
## 2013-07-15	1.00	1.00	1.00	1.00
## 2013-07-24	3.00	3.00	3.00	3.00
## 2013-07-25	0.00	0.00	0.00	0.00
## 2013-07-29	1.00	1.00	1.00	1.00
## 2013-08-09	1.00	1.00	1.00	2.00
## 2013-08-13	2.00	3.00	2.00	3.00
## 2013-08-21	0.00	0.00	0.00	0.00
## 2013-08-26	2.00	2.00	2.00	2.00
## 2013-09-04	0.00	0.00	0.00	0.00
## 2013-09-05	0.00	0.00	0.00	0.00
## 2013-09-09	1.00	1.00	1.00	1.00
## 2013-09-12	3.00	3.00	3.00	3.00
## 2013-09-16	3.00	2.00	3.00	3.00
## 2013-09-25	3.00	3.00	3.00	3.00
## 2013-09-27	3.00	2.00	3.00	3.00
## 2013-10-03	0.00	0.00	0.00	0.00
## 2013-10-09	3.00	2.00	3.00	3.00
## 2013-10-10	0.00	0.00	0.00	0.00
## 2013-10-11	0.00	0.00	0.00	0.00
## 2013-10-14	1.00	1.00	1.00	1.00
## 2013-10-16	1.00	2.00	1.00	1.00
## 2013-10-22	3.00	4.00	3.00	3.00
## 2013-10-28	2.00	4.00	2.00	3.00
## 2013-10-31	1.00	1.00	1.00	1.00
## 2013-11-05	2.00	2.00	2.00	2.00
## 2013-11-08	1.00	1.00	1.00	2.00
## 2013-11-11	1.00	2.00	1.00	1.00
## 2013-11-13	0.00	0.00	0.00	0.00
## 2013-11-15	3.00	3.00	3.00	3.00
## 2013-11-18	3.00	3.00	3.00	3.00
## 2013-11-20	3.00	2.00	3.00	3.00
## 2013-11-26	3.00	2.00	3.00	4.00
## 2013-11-27	3.00	3.00	3.00	3.00
## 2013-12-10	1.00	1.00	1.00	1.00
## 2013-12-23	1.00	0.00	1.00	1.00
## 2013-12-26	1.00	1.00	1.00	1.00
## 2014-01-15	1.00	1.00	1.00	1.00
## 2014-01-22	5.00	3.00	5.00	4.00
## 2014-01-28	1.00	1.00	1.00	1.00
## 2014-01-29	1.00	1.00	1.00	1.00
## 2014-01-31	1.00	1.00	1.00	1.00
## 2014-02-03	1.00	2.00	1.00	1.00
## 2014-02-24	0.00	0.00	0.00	0.00
## 2014-02-27	1.00	0.00	1.00	1.00
## 2014-03-03	0.00	0.00	0.00	0.00
## 2014-03-11	3.00	4.00	3.00	3.00
## 2014-03-19	6.00	3.00	6.00	4.00
## 2014-03-20	6.00	3.00	6.00	4.00
## 2014-03-21	6.00	3.00	6.00	4.00

## 2014-03-24	6.00	3.00	6.00	4.00
## 2014-03-26	6.00	3.00	6.00	4.00
## 2014-03-31	0.00	0.00	0.00	0.00
## 2014-04-01	3.00	3.00	3.00	3.00
## 2014-04-08	0.00	0.00	0.00	0.00
## 2014-04-09	2.00	2.00	2.00	2.00
## 2014-04-11	2.00	2.00	2.00	2.00
## 2014-04-14	0.00	0.00	0.00	0.00
## 2014-04-25	4.00	3.00	4.00	4.00
## 2014-05-01	1.00	2.00	1.00	1.00
## 2014-05-05	1.00	1.00	1.00	1.00
## 2014-05-13	2.00	3.00	2.00	3.00
## 2014-05-19	0.00	0.00	0.00	0.00
## 2014-05-20	0.00	0.00	0.00	0.00
## 2014-05-21	0.00	0.00	0.00	0.00
## 2014-05-28	1.00	1.00	1.00	2.00
## 2014-05-29	2.00	2.00	2.00	3.00
## 2014-05-30	2.00	2.00	2.00	3.00
## 2014-06-02	2.00	3.00	2.00	2.00
## 2014-06-05	0.00	0.00	0.00	0.00
## 2014-06-06	0.00	0.00	0.00	0.00
## 2014-06-16	1.00	2.00	1.00	1.00
## 2014-06-17	0.00	0.00	0.00	0.00
## 2014-06-24	1.00	1.00	1.00	1.00
## 2014-07-08	3.00	3.00	3.00	3.00
## 2014-07-14	3.00	2.00	3.00	3.00
## 2014-07-18	1.00	2.00	1.00	2.00
## 2014-07-29	0.00	0.00	0.00	0.00
## 2014-08-04	2.00	2.00	2.00	3.00
## 2014-08-05	2.00	3.00	2.00	3.00
## 2014-08-08	1.00	1.00	1.00	1.00
## 2014-08-12	1.00	1.00	1.00	2.00
## 2014-08-14	0.00	0.00	0.00	0.00
## 2014-08-18	0.00	0.00	0.00	0.00
## 2014-08-22	0.00	0.00	0.00	0.00
## 2014-08-25	1.00	0.00	1.00	2.00
## 2014-09-02	2.00	2.00	2.00	3.00
## 2014-09-05	2.00	2.00	2.00	3.00
## 2014-09-09	2.00	3.00	2.00	2.00
## 2014-09-11	5.00	3.00	5.00	4.00
## 2014-09-23	0.00	0.00	0.00	0.00
## 2014-09-25	1.00	1.00	1.00	1.00
## 2014-09-26	3.00	2.00	3.00	3.00
## 2014-09-30	3.00	4.00	3.00	3.00
## 2014-10-01	3.00	3.00	3.00	3.00
## 2014-10-02	0.00	0.00	0.00	0.00
## 2014-10-06	2.00	3.00	2.00	3.00
## 2014-10-09	3.00	3.00	3.00	3.00
## 2014-10-15	0.00	0.00	0.00	0.00
## 2014-10-16	0.00	0.00	0.00	0.00

## 2014-10-21	2.00	2.00	2.00	3.00
## 2014-10-29	1.00	2.00	1.00	1.00
## 2014-11-04	2.00	3.00	2.00	3.00
## 2014-11-07	1.00	1.00	1.00	1.00
## 2014-11-14	3.00	3.00	3.00	3.00
## 2014-11-18	3.00	3.00	3.00	3.00
## 2014-12-08	2.00	2.00	2.00	3.00
## 2014-12-09	1.00	1.00	1.00	1.00
## 2014-12-10	1.00	2.00	1.00	1.00
## 2014-12-22	1.00	1.00	1.00	1.00
## 2014-12-26	2.00	2.00	2.00	2.00
## 2014-12-30	0.00	0.00	0.00	0.00
## 2014-12-31	0.00	0.00	0.00	0.00
## 2015-01-22	0.00	0.00	0.00	0.00
## 2015-02-09	2.00	2.00	2.00	3.00
## 2015-02-18	2.00	2.00	2.00	3.00
## 2015-02-26	0.00	0.00	0.00	0.00
## 2015-03-06	3.00	5.00	3.00	4.00
## 2015-03-09	3.00	4.00	3.00	4.00
## 2015-03-18	3.00	4.00	3.00	4.00
## 2015-03-23	0.00	0.00	0.00	0.00
## 2015-03-30	2.00	1.00	2.00	3.00
## 2015-04-01	2.00	2.00	2.00	3.00
## 2015-04-06	1.00	1.00	1.00	1.00
## 2015-04-17	3.00	4.00	3.00	4.00
## 2015-04-21	0.00	0.00	0.00	0.00
## 2015-04-22	1.00	1.00	1.00	1.00
## 2015-04-28	0.00	0.00	0.00	0.00
## 2015-05-06	3.00	3.00	3.00	4.00
## 2015-05-12	7.00	3.00	7.00	4.00
## 2015-05-13	7.00	6.00	7.00	4.00
## 2015-05-14	7.00	6.00	7.00	4.00
## 2015-05-15	7.00	6.00	7.00	4.00
## 2015-05-18	7.00	6.00	7.00	4.00
## 2015-05-29	1.00	1.00	1.00	1.00
## 2015-06-03	2.00	3.00	2.00	3.00
## 2015-06-10	4.00	6.00	4.00	4.00
## 2015-06-15	1.00	1.00	1.00	1.00
## 2015-06-17	1.00	1.00	1.00	1.00
## 2015-06-22	0.00	0.00	0.00	0.00
## 2015-06-25	4.00	6.00	4.00	4.00
## 2015-06-26	4.00	6.00	4.00	4.00
## 2015-06-29	4.00	2.00	4.00	4.00
## 2015-06-30	7.00	3.00	7.00	4.00
## 2015-07-07	7.00	4.00	7.00	4.00
## 2015-07-08	7.00	5.00	7.00	4.00
## 2015-07-09	7.00	6.00	7.00	4.00
## 2015-07-10	7.00	4.00	7.00	4.00
## 2015-07-14	1.00	1.00	1.00	1.00
## 2015-07-28	4.00	4.00	4.00	3.00

## 2015-07-29	4.00	2.00	4.00	4.00
## 2015-07-31	1.00	1.00	1.00	1.00
## 2015-08-03	1.00	1.00	1.00	1.00
## 2015-08-06	3.00	7.00	3.00	4.00
## 2015-08-12	1.00	1.00	1.00	2.00
## 2015-08-13	1.00	1.00	1.00	1.00
## 2015-08-17	6.00	2.00	6.00	4.00
## 2015-08-18	6.00	7.00	6.00	5.00
## 2015-08-25	6.00	3.00	6.00	4.00
## 2015-09-01	1.00	1.00	1.00	1.00
## 2015-09-04	1.00	1.00	1.00	2.00
## 2015-09-10	2.00	3.00	2.00	3.00
## 2015-09-17	10.00	6.00	10.00	5.00
## 2015-09-29	10.00	4.00	10.00	4.00
## 2015-10-05	1.00	1.00	1.00	2.00
## 2015-10-06	1.00	1.00	1.00	1.00
## 2015-10-08	0.00	0.00	0.00	0.00
## 2015-10-09	3.00	2.00	3.00	3.00
## 2015-10-19	3.00	4.00	3.00	4.00
## 2015-10-23	0.00	0.00	0.00	0.00
## 2015-10-27	2.00	4.00	2.00	3.00
## 2015-10-28	2.00	3.00	2.00	3.00
## 2015-11-20	1.00	1.00	1.00	1.00
## 2015-12-01	0.00	0.00	0.00	0.00
## 2015-12-03	3.00	4.00	3.00	4.00
## 2015-12-08	1.00	1.00	1.00	2.00
## 2015-12-15	3.00	4.00	3.00	3.00
## 2015-12-16	3.00	2.00	3.00	4.00
## 2015-12-22	0.00	0.00	0.00	0.00
## 2015-12-23	0.00	0.00	0.00	0.00
## 2015-12-30	1.00	1.00	1.00	1.00
## 2015-12-31	10.00	3.00	10.00	4.00
## 2016-01-06	11.00	7.00	10.00	5.00
## 2016-01-15	10.00	7.00	10.00	5.00
## 2016-01-19	10.00	6.00	10.00	4.00
## 2016-01-26	2.00	2.00	2.00	3.00
## 2016-01-27	2.00	2.00	2.00	3.00
## 2016-02-03	2.00	3.00	2.00	3.00
## 2016-02-04	5.00	3.00	5.00	4.00
## 2016-02-05	5.00	4.00	5.00	5.00
## 2016-02-10	5.00	5.00	5.00	5.00
## 2016-02-18	1.00	1.00	1.00	1.00
## 2016-02-19	0.00	0.00	0.00	0.00
## 2016-02-24	2.00	4.00	2.00	3.00
## 2016-02-25	0.00	0.00	0.00	0.00
## 2016-03-04	1.00	1.00	1.00	1.00
## 2016-03-11	0.00	0.00	0.00	0.00
## 2016-03-15	1.00	1.00	1.00	1.00
## 2016-03-16	0.00	0.00	0.00	0.00
## 2016-03-23	4.00	4.00	4.00	4.00

## 2016-03-24	1.00	1.00	1.00	2.00
## 2016-03-31	2.00	3.00	2.00	3.00
## 2016-04-07	2.00	3.00	2.00	4.00
## 2016-04-08	2.00	1.00	2.00	3.00
## 2016-04-14	0.00	0.00	0.00	0.00
## 2016-04-25	1.00	1.00	1.00	1.00
## 2016-04-26	3.00	2.00	3.00	4.00
## 2016-05-04	2.00	2.00	2.00	3.00
## 2016-05-10	2.00	2.00	2.00	3.00
## 2016-05-19	2.00	2.00	2.00	3.00
## 2016-05-23	1.00	1.00	1.00	1.00
## 2016-05-24	0.00	0.00	0.00	0.00
## 2016-05-27	0.00	0.00	0.00	0.00
## 2016-06-07	1.00	1.00	1.00	1.00
## 2016-06-08	0.00	0.00	0.00	0.00
## 2016-06-09	3.00	3.00	3.00	3.00
## 2016-06-13	3.00	3.00	3.00	4.00
## 2016-06-14	3.00	3.00	3.00	3.00
## 2016-06-17	0.00	0.00	0.00	0.00
## 2016-06-20	0.00	0.00	0.00	0.00
## 2016-06-21	1.00	1.00	1.00	1.00
## 2016-06-22	1.00	1.00	1.00	1.00
## 2016-06-23	2.00	2.00	2.00	3.00
## 2016-06-27	2.00	2.00	2.00	3.00
## 2016-07-25	0.00	0.00	0.00	0.00
## 2016-07-29	2.00	2.00	2.00	3.00
## 2016-08-03	0.00	0.00	0.00	0.00
## 2016-08-09	0.00	0.00	0.00	0.00
## 2016-08-12	1.00	2.00	1.00	1.00
## 2016-08-24	3.00	3.00	3.00	3.00
## 2016-08-29	1.00	1.00	1.00	1.00
## 2016-09-06	3.00	3.00	3.00	4.00
## 2016-09-12	1.00	1.00	1.00	2.00
## 2016-09-15	3.00	3.00	3.00	3.00
## 2016-09-16	3.00	4.00	3.00	4.00
## 2016-09-23	0.00	0.00	0.00	0.00
## 2016-09-26	0.00	0.00	0.00	0.00
## 2016-09-29	1.00	1.00	1.00	1.00
## 2016-10-03	0.00	0.00	0.00	0.00
## 2016-10-06	2.00	3.00	2.00	3.00
## 2016-10-11	4.00	4.00	4.00	4.00
## 2016-10-12	4.00	5.00	4.00	4.00
## 2016-10-25	4.00	4.00	4.00	4.00
## 2016-10-27	4.00	6.00	4.00	4.00
## 2016-10-28	4.00	5.00	4.00	4.00
## 2016-10-31	1.00	1.00	1.00	2.00
## 2016-11-02	1.00	1.00	1.00	2.00
## 2016-11-03	1.00	1.00	1.00	1.00
## 2016-11-04	0.00	0.00	0.00	0.00
## 2016-11-07	0.00	0.00	0.00	0.00

## 2016-11-08	0.00	0.00	0.00	0.00
## 2016-11-17	0.00	0.00	0.00	0.00
## 2016-11-21	0.00	0.00	0.00	0.00
## 2016-11-25	2.00	2.00	2.00	3.00
## 2016-11-30	3.00	3.00	3.00	4.00
## 2016-12-02	3.00	4.00	3.00	3.00
## 2016-12-05	2.00	2.00	2.00	3.00
## 2016-12-08	2.00	2.00	2.00	3.00
## 2016-12-09	2.00	2.00	2.00	3.00
## 2016-12-14	1.00	1.00	1.00	1.00
## 2016-12-16	1.00	1.00	1.00	1.00
## 2017-01-12	1.00	1.00	1.00	1.00
## 2017-01-26	2.00	2.00	2.00	3.00
## 2017-02-02	5.00	6.00	5.00	4.00
## 2017-02-07	5.00	4.00	5.00	4.00
## 2017-02-14	7.00	3.00	7.00	4.00
## 2017-02-17	7.00	6.00	7.00	5.00
## 2017-02-24	7.00	5.00	7.00	4.00
## 2017-02-27	1.00	1.00	1.00	2.00
## 2017-02-28	1.00	1.00	1.00	1.00
## 2017-03-02	2.00	2.00	2.00	3.00
## 2017-03-07	1.00	1.00	1.00	1.00
## 2017-03-15	0.00	0.00	0.00	0.00
## 2017-03-21	6.00	5.00	6.00	4.00
## 2017-03-22	6.00	5.00	6.00	4.00
## 2017-03-31	1.00	1.00	1.00	2.00
## 2017-04-06	2.00	2.00	2.00	3.00
## 2017-04-13	2.00	2.00	2.00	3.00
## 2017-04-17	0.00	0.00	0.00	0.00
## 2017-04-18	1.00	1.00	1.00	1.00
## 2017-04-25	0.00	0.00	0.00	0.00
## 2017-05-02	1.00	1.00	1.00	1.00
## 2017-05-05	0.00	0.00	0.00	0.00
## 2017-05-08	2.00	2.00	2.00	3.00
## 2017-05-12	1.00	1.00	1.00	1.00
## 2017-05-18	1.00	1.00	1.00	2.00
## 2017-05-25	1.00	1.00	1.00	2.00
## 2017-05-30	0.00	0.00	0.00	0.00
## 2017-06-05	1.00	1.00	1.00	2.00
## 2017-06-09	1.00	1.00	1.00	1.00
## 2017-06-14	2.00	2.00	2.00	3.00
## 2017-06-22	0.00	0.00	0.00	0.00
## 2017-06-27	2.00	3.00	2.00	3.00
## 2017-07-05	1.00	1.00	1.00	1.00
## 2017-07-10	0.00	0.00	0.00	0.00
## 2017-07-11	0.00	0.00	0.00	0.00
## 2017-07-12	1.00	1.00	1.00	1.00
## 2017-07-14	1.00	1.00	1.00	2.00
## 2017-07-21	4.00	4.00	4.00	4.00
## 2017-07-24	4.00	3.00	4.00	4.00

## 2017-07-26	0.00	0.00	0.00	0.00
## 2017-07-27	0.00	0.00	0.00	0.00
## 2017-07-28	1.00	1.00	1.00	2.00
## 2017-07-31	1.00	1.00	1.00	1.00
## 2017-08-03	2.00	2.00	2.00	3.00
## 2017-08-10	3.00	3.00	3.00	3.00
## 2017-08-15	1.00	1.00	1.00	1.00
## 2017-08-25	1.00	1.00	1.00	2.00
## 2017-08-29	0.00	0.00	0.00	0.00
## 2017-08-30	1.00	1.00	1.00	1.00
## 2017-09-15	1.00	1.00	1.00	2.00
## 2017-09-25	4.00	6.00	4.00	4.00
## 2017-09-28	1.00	1.00	1.00	1.00
## 2017-10-02	0.00	0.00	0.00	0.00
## 2017-10-10	7.00	5.00	7.00	4.00
## 2017-10-16	7.00	6.00	7.00	4.00
## 2017-10-20	1.00	1.00	1.00	2.00
## 2017-10-31	3.00	3.00	3.00	4.00
## 2017-11-01	3.00	4.00	3.00	4.00
## 2017-11-02	3.00	3.00	3.00	3.00
## 2017-11-06	2.00	3.00	2.00	3.00
## 2017-11-15	1.00	1.00	1.00	1.00
## 2017-11-20	1.00	1.00	1.00	1.00
## 2017-11-21	1.00	1.00	1.00	1.00
## 2017-11-28	8.00	3.00	7.00	4.00
## 2017-11-29	8.00	3.00	7.00	4.00
## 2017-12-05	8.00	5.00	7.00	4.00
## 2017-12-06	8.00	5.00	7.00	4.00
## 2017-12-07	8.00	5.00	7.00	4.00
## 2017-12-11	0.00	0.00	0.00	0.00
## 2017-12-14	1.00	1.00	1.00	1.00
## 2017-12-18	4.00	3.00	4.00	4.00
## 2018-01-10	2.00	2.00	2.00	2.00
## 2018-01-12	1.00	1.00	1.00	1.00
## 2018-01-16	1.00	1.00	1.00	1.00
## 2018-01-17	2.00	4.00	2.00	3.00
## 2018-01-23	1.00	1.00	1.00	1.00
## 2018-01-25	0.00	0.00	0.00	0.00
## 2018-01-26	0.00	0.00	0.00	0.00
## 2018-01-31	0.00	0.00	0.00	0.00
## 2018-02-01	2.00	2.00	2.00	3.00
## 2018-02-06	0.00	0.00	0.00	0.00
## 2018-02-26	4.00	6.00	4.00	4.00
## 2018-03-02	1.00	1.00	1.00	2.00
## 2018-03-06	0.00	0.00	0.00	0.00
## 2018-03-08	1.00	1.00	1.00	1.00
## 2018-03-09	0.00	0.00	0.00	0.00
## 2018-03-13	1.00	1.00	1.00	1.00
## 2018-03-15	7.00	6.00	7.00	4.00
## 2018-03-16	7.00	6.00	7.00	4.00

## 2018-03-26	1.00	1.00	1.00	2.00
## 2018-03-28	0.00	0.00	0.00	0.00
## 2018-04-03	0.00	0.00	0.00	0.00
## 2018-04-10	0.00	0.00	0.00	0.00
## 2018-04-17	3.00	3.00	3.00	3.00
## 2018-04-18	3.00	3.00	3.00	4.00
## 2018-04-20	3.00	2.00	3.00	3.00
## 2018-04-23	2.00	3.00	2.00	3.00
## 2018-04-30	1.00	1.00	1.00	2.00
## 2018-05-01	1.00	1.00	1.00	1.00
## 2018-05-02	1.00	1.00	1.00	2.00
## 2018-05-03	1.00	1.00	1.00	1.00
## 2018-05-09	3.00	3.00	3.00	3.00
## 2018-05-10	3.00	4.00	3.00	3.00
## 2018-05-16	0.00	0.00	0.00	0.00
## 2018-05-18	0.00	0.00	0.00	0.00
## 2018-05-22	1.00	1.00	1.00	1.00
## 2018-05-31	1.00	1.00	1.00	1.00
## 2018-06-06	2.00	2.00	2.00	3.00
## 2018-06-14	1.00	1.00	1.00	2.00
## 2018-06-15	1.00	1.00	1.00	1.00
## 2018-06-18	0.00	0.00	0.00	0.00
## 2018-06-28	0.00	0.00	0.00	0.00
## 2018-07-02	1.00	1.00	1.00	1.00
## 2018-07-03	1.00	1.00	1.00	1.00
## 2018-07-06	1.00	1.00	1.00	1.00
## 2018-07-10	2.00	3.00	2.00	3.00
## 2018-07-17	5.00	3.00	5.00	4.00
## 2018-07-19	5.00	4.00	5.00	4.00
## 2018-07-20	5.00	6.00	5.00	4.00
## 2018-07-26	3.00	3.00	3.00	3.00
## 2018-07-30	3.00	4.00	3.00	4.00
## 2018-08-01	0.00	0.00	0.00	0.00
## 2018-08-03	0.00	0.00	0.00	0.00
## 2018-08-06	2.00	3.00	2.00	3.00
## 2018-08-09	0.00	1.00	0.00	0.00
## 2018-08-13	1.00	1.00	1.00	1.00
## 2018-08-15	6.00	6.00	6.00	4.00
## 2018-08-22	6.00	3.00	6.00	4.00
## 2018-08-23	0.00	0.00	0.00	0.00
## 2018-08-29	1.00	1.00	1.00	2.00
## 2018-08-30	1.00	1.00	1.00	1.00
## 2018-08-31	3.00	3.00	3.00	4.00
## 2018-09-05	3.00	3.00	3.00	4.00
## 2018-09-18	1.00	0.00	1.00	1.00
## 2018-09-19	1.00	1.00	1.00	1.00
## 2018-09-21	2.00	3.00	2.00	3.00
## 2018-09-25	1.00	1.00	1.00	1.00
## 2018-09-28	3.00	3.00	3.00	4.00
## 2018-10-09	5.00	5.00	5.00	4.00

## 2018-10-16	3.00	2.00	3.00	3.00
## 2018-10-22	2.00	3.00	2.00	3.00
## 2018-10-29	2.00	2.00	2.00	3.00
## 2018-10-31	0.00	0.00	0.00	0.00
## 2018-11-05	0.00	0.00	0.00	0.00
## 2018-11-06	0.00	0.00	0.00	0.00
## 2018-11-08	2.00	3.00	2.00	2.00
## 2018-11-23	0.00	0.00	0.00	0.00
## 2018-11-26	1.00	1.00	1.00	1.00
## 2018-11-29	1.00	1.00	1.00	1.00
## 2018-12-10	0.00	0.00	0.00	0.00
## 2018-12-11	1.00	1.00	1.00	1.00
## 2018-12-14	3.00	3.00	3.00	4.00
## 2018-12-17	3.00	3.00	3.00	4.00
## 2018-12-18	3.00	3.00	3.00	3.00
## 2018-12-21	2.00	2.00	2.00	3.00
## 2018-12-28	1.00	1.00	1.00	1.00
## 2019-01-02	2.00	2.00	2.00	3.00
## 2019-01-08	0.00	0.00	0.00	0.00
## 2019-01-09	1.00	1.00	1.00	1.00
## 2019-01-11	1.00	1.00	1.00	2.00
## 2019-01-14	1.00	1.00	1.00	1.00
## 2019-01-15	0.00	0.00	0.00	0.00
## 2019-01-16	0.00	0.00	0.00	0.00
## 2019-01-17	0.00	0.00	0.00	0.00
## 2019-01-29	2.00	3.00	2.00	3.00
## 2019-01-30	1.00	1.00	1.00	2.00
## 2019-02-05	3.00	3.00	3.00	4.00
## 2019-02-12	2.00	2.00	2.00	3.00
## 2019-02-19	3.00	3.00	3.00	4.00
## 2019-02-21	3.00	3.00	3.00	3.00
## 2019-02-25	10.00	6.00	10.00	4.00
## 2019-02-26	10.00	4.00	10.00	4.00
## 2019-02-28	10.00	5.00	10.00	5.00
## 2019-03-05	10.00	5.00	10.00	4.00
## 2019-03-06	10.00	6.00	10.00	4.00
## 2019-03-18	3.00	3.00	3.00	4.00
## 2019-03-28	1.00	1.00	1.00	2.00
## 2019-04-01	0.00	0.00	0.00	0.00
## 2019-04-12	3.00	3.00	3.00	4.00
## 2019-04-16	0.00	0.00	0.00	0.00
## 2019-04-22	0.00	0.00	0.00	0.00
## 2019-04-24	1.00	1.00	1.00	1.00
## 2019-04-26	0.00	0.00	0.00	0.00
## 2019-04-30	2.00	2.00	2.00	3.00
## 2019-05-01	2.00	2.00	2.00	2.00
## 2019-05-10	3.00	2.00	3.00	4.00
## 2019-05-14	0.00	0.00	0.00	0.00
## 2019-05-21	2.00	2.00	2.00	3.00
## 2019-06-11	1.00	1.00	1.00	1.00

## 2019-06-17	0.00	0.00	0.00	0.00
## 2019-06-24	1.00	1.00	1.00	2.00
## 2019-06-26	0.00	0.00	0.00	1.00
## 2019-07-09	0.00	0.00	0.00	1.00
## 2019-07-11	0.00	0.00	0.00	1.00
## 2019-07-15	1.00	1.00	1.00	1.00
## 2019-07-17	4.00	4.00	4.00	4.00
## 2019-07-18	4.00	5.00	4.00	4.00
## 2019-07-24	1.00	1.00	1.00	1.00
## 2019-08-02	1.00	1.00	1.00	2.00
## 2019-08-06	0.00	0.00	0.00	0.00
## 2019-08-07	0.00	0.00	0.00	0.00
## 2019-08-13	3.00	3.00	3.00	4.00
## 2019-08-15	0.00	0.00	0.00	0.00
## 2019-08-19	2.00	2.00	2.00	3.00
## 2019-08-28	0.00	0.00	0.00	0.00
## 2019-08-30	3.00	3.00	3.00	4.00
## 2019-09-10	0.00	0.00	0.00	0.00
## 2019-09-11	0.00	0.00	0.00	0.00
## 2019-09-18	6.00	6.00	6.00	4.00
## 2019-09-19	6.00	7.00	6.00	4.00
## 2019-09-30	0.00	0.00	0.00	0.00
## 2019-10-03	2.00	2.00	2.00	3.00
## 2019-10-07	4.00	6.00	4.00	4.00
## 2019-10-08	4.00	4.00	4.00	4.00
## 2019-10-11	0.00	0.00	0.00	0.00
## 2019-10-15	0.00	0.00	0.00	0.00
## 2019-10-21	0.00	0.00	0.00	0.00
## 2019-10-22	2.00	2.00	2.00	3.00
## 2019-10-24	2.00	2.00	2.00	3.00
## 2019-10-25	0.00	0.00	0.00	0.00
## 2019-11-04	4.00	5.00	4.00	4.00
## 2019-11-11	3.00	3.00	3.00	3.00
## 2019-11-19	3.00	3.00	3.00	4.00
## 2019-11-21	3.00	2.00	3.00	3.00
## 2019-11-26	0.00	0.00	0.00	0.00
## 2019-12-03	0.00	0.00	0.00	0.00
## 2019-12-04	5.00	3.00	5.00	4.00
## 2019-12-05	5.00	6.00	5.00	4.00
## 2019-12-06	5.00	6.00	5.00	4.00
## 2019-12-12	0.00	0.00	0.00	0.00
## 2019-12-16	0.00	0.00	0.00	0.00
## 2019-12-17	0.00	0.00	0.00	0.00
## 2020-01-03	3.00	3.00	3.00	4.00
## 2020-01-10	0.00	0.00	0.00	0.00
## 2020-01-15	0.00	0.00	0.00	0.00
## 2020-01-17	2.00	2.00	2.00	3.00
## 2020-01-21	2.00	2.00	2.00	3.00
## 2020-01-22	0.00	0.00	0.00	0.00
## 2020-01-29	3.00	3.00	3.00	4.00

## 2020-02-04	0.00	0.00	0.00	0.00
## 2020-02-11	0.00	0.00	0.00	0.00
## 2020-02-19	3.00	2.00	3.00	3.00
## 2020-02-24	2.00	2.00	2.00	3.00
## 2020-03-03	1.00	1.00	1.00	1.00
## 2020-03-04	3.00	3.00	3.00	3.00
## results_round	0.99	0.69	0.98	0.59
##	DecreasingDaysThisCycle	Date	mostVoted	
## 2012-03-06	4	2012-03-06	4.00	
## 2012-03-09	4	2012-03-09	4.00	
## 2012-03-13	3	2012-03-13	3.00	
## 2012-03-14	3	2012-03-14	3.00	
## 2012-03-20	1	2012-03-20	1.00	
## 2012-03-23	1	2012-03-23	1.00	
## 2012-04-04	3	2012-04-04	3.00	
## 2012-04-10	1	2012-04-10	1.00	
## 2012-04-26	0	2012-04-26	0.00	
## 2012-05-04	0	2012-05-04	0.00	
## 2012-05-17	2	2012-05-17	2.00	
## 2012-05-21	1	2012-05-21	1.00	
## 2012-05-30	3	2012-05-30	3.00	
## 2012-06-08	1	2012-06-08	1.00	
## 2012-06-12	0	2012-06-12	0.00	
## 2012-06-13	0	2012-06-13	0.00	
## 2012-06-14	0	2012-06-14	0.00	
## 2012-06-19	2	2012-06-19	2.00	
## 2012-07-02	0	2012-07-02	0.00	
## 2012-07-10	4	2012-07-10	4.00	
## 2012-07-13	2	2012-07-13	2.00	
## 2012-07-19	0	2012-07-19	0.00	
## 2012-07-20	5	2012-07-20	5.00	
## 2012-07-30	2	2012-07-30	2.00	
## 2012-07-31	2	2012-07-31	2.00	
## 2012-08-01	2	2012-08-01	2.00	
## 2012-08-09	1	2012-08-09	1.00	
## 2012-08-14	8	2012-08-14	5.00	
## 2012-08-17	8	2012-08-17	7.00	
## 2012-08-20	8	2012-08-20	7.00	
## 2012-08-27	2	2012-08-27	2.00	
## 2012-08-28	2	2012-08-28	2.00	
## 2012-08-29	1	2012-08-29	1.00	
## 2012-08-31	0	2012-08-31	0.00	
## 2012-09-06	2	2012-09-06	2.00	
## 2012-09-13	2	2012-09-13	2.00	
## 2012-09-14	2	2012-09-14	2.00	
## 2012-09-18	2	2012-09-18	2.00	
## 2012-09-20	0	2012-09-20	0.00	
## 2012-09-24	2	2012-09-24	2.00	
## 2012-09-25	2	2012-09-25	2.00	
## 2012-09-26	0	2012-09-26	0.00	

## 2012-10-02	1	2012-10-02	1.00
## 2012-10-11	1	2012-10-11	1.00
## 2012-10-16	1	2012-10-16	1.00
## 2012-10-17	4	2012-10-17	4.00
## 2012-10-18	4	2012-10-18	4.00
## 2012-10-25	2	2012-10-25	2.00
## 2012-11-02	4	2012-11-02	4.00
## 2012-11-06	4	2012-11-06	4.00
## 2012-11-07	3	2012-11-07	3.00
## 2012-11-12	3	2012-11-12	3.00
## 2012-11-14	1	2012-11-14	1.00
## 2012-11-20	1	2012-11-20	1.00
## 2012-12-04	3	2012-12-04	3.00
## 2012-12-05	3	2012-12-05	3.00
## 2012-12-06	3	2012-12-06	3.00
## 2012-12-17	3	2012-12-17	3.00
## 2012-12-18	3	2012-12-18	3.00
## 2012-12-19	0	2012-12-19	0.00
## 2012-12-21	1	2012-12-21	1.00
## 2012-12-24	1	2012-12-24	1.00
## 2012-12-31	1	2012-12-31	1.00
## 2013-01-04	3	2013-01-04	3.00
## 2013-01-08	3	2013-01-08	3.00
## 2013-01-09	3	2013-01-09	3.00
## 2013-01-16	5	2013-01-16	5.00
## 2013-01-18	1	2013-01-18	1.00
## 2013-01-22	1	2013-01-22	1.00
## 2013-01-25	3	2013-01-25	3.00
## 2013-01-31	2	2013-01-31	2.00
## 2013-02-22	2	2013-02-22	2.00
## 2013-02-25	2	2013-02-25	2.00
## 2013-02-26	2	2013-02-26	2.00
## 2013-03-01	0	2013-03-01	0.00
## 2013-03-04	2	2013-03-04	2.00
## 2013-03-06	2	2013-03-06	2.00
## 2013-03-25	6	2013-03-25	6.00
## 2013-03-26	0	2013-03-26	0.00
## 2013-03-27	3	2013-03-27	3.00
## 2013-04-05	2	2013-04-05	2.00
## 2013-04-10	0	2013-04-10	0.00
## 2013-04-11	0	2013-04-11	0.00
## 2013-04-17	1	2013-04-17	1.00
## 2013-04-19	3	2013-04-19	3.00
## 2013-04-24	3	2013-04-24	3.00
## 2013-05-03	4	2013-05-03	4.00
## 2013-05-13	1	2013-05-13	1.00
## 2013-05-14	1	2013-05-14	1.00
## 2013-05-17	0	2013-05-17	0.00
## 2013-05-20	0	2013-05-20	0.00
## 2013-06-06	0	2013-06-06	0.00

## 2013-06-10	3	2013-06-10	3.00
## 2013-06-12	3	2013-06-12	3.00
## 2013-06-14	0	2013-06-14	0.00
## 2013-06-17	1	2013-06-17	1.00
## 2013-06-25	0	2013-06-25	0.00
## 2013-06-28	1	2013-06-28	1.00
## 2013-07-10	1	2013-07-10	1.00
## 2013-07-11	0	2013-07-11	0.00
## 2013-07-15	1	2013-07-15	1.00
## 2013-07-24	3	2013-07-24	3.00
## 2013-07-25	0	2013-07-25	0.00
## 2013-07-29	1	2013-07-29	1.00
## 2013-08-09	1	2013-08-09	1.00
## 2013-08-13	2	2013-08-13	2.00
## 2013-08-21	0	2013-08-21	0.00
## 2013-08-26	2	2013-08-26	2.00
## 2013-09-04	0	2013-09-04	0.00
## 2013-09-05	0	2013-09-05	0.00
## 2013-09-09	1	2013-09-09	1.00
## 2013-09-12	3	2013-09-12	3.00
## 2013-09-16	3	2013-09-16	3.00
## 2013-09-25	3	2013-09-25	3.00
## 2013-09-27	3	2013-09-27	3.00
## 2013-10-03	0	2013-10-03	0.00
## 2013-10-09	3	2013-10-09	3.00
## 2013-10-10	0	2013-10-10	0.00
## 2013-10-11	0	2013-10-11	0.00
## 2013-10-14	1	2013-10-14	1.00
## 2013-10-16	1	2013-10-16	1.00
## 2013-10-22	3	2013-10-22	3.00
## 2013-10-28	2	2013-10-28	2.00
## 2013-10-31	1	2013-10-31	1.00
## 2013-11-05	2	2013-11-05	2.00
## 2013-11-08	1	2013-11-08	1.00
## 2013-11-11	1	2013-11-11	1.00
## 2013-11-13	0	2013-11-13	0.00
## 2013-11-15	3	2013-11-15	3.00
## 2013-11-18	3	2013-11-18	3.00
## 2013-11-20	3	2013-11-20	3.00
## 2013-11-26	3	2013-11-26	3.00
## 2013-11-27	3	2013-11-27	3.00
## 2013-12-10	1	2013-12-10	1.00
## 2013-12-23	1	2013-12-23	1.00
## 2013-12-26	1	2013-12-26	1.00
## 2014-01-15	1	2014-01-15	1.00
## 2014-01-22	5	2014-01-22	5.00
## 2014-01-28	1	2014-01-28	1.00
## 2014-01-29	1	2014-01-29	1.00
## 2014-01-31	1	2014-01-31	1.00
## 2014-02-03	1	2014-02-03	1.00

## 2014-02-24	0	2014-02-24	0.00
## 2014-02-27	1	2014-02-27	1.00
## 2014-03-03	0	2014-03-03	0.00
## 2014-03-11	3	2014-03-11	3.00
## 2014-03-19	6	2014-03-19	6.00
## 2014-03-20	6	2014-03-20	6.00
## 2014-03-21	6	2014-03-21	6.00
## 2014-03-24	6	2014-03-24	6.00
## 2014-03-26	6	2014-03-26	6.00
## 2014-03-31	0	2014-03-31	0.00
## 2014-04-01	3	2014-04-01	3.00
## 2014-04-08	0	2014-04-08	0.00
## 2014-04-09	2	2014-04-09	2.00
## 2014-04-11	2	2014-04-11	2.00
## 2014-04-14	0	2014-04-14	0.00
## 2014-04-25	4	2014-04-25	4.00
## 2014-05-01	1	2014-05-01	1.00
## 2014-05-05	1	2014-05-05	1.00
## 2014-05-13	2	2014-05-13	2.00
## 2014-05-19	0	2014-05-19	0.00
## 2014-05-20	0	2014-05-20	0.00
## 2014-05-21	0	2014-05-21	0.00
## 2014-05-28	1	2014-05-28	1.00
## 2014-05-29	2	2014-05-29	2.00
## 2014-05-30	2	2014-05-30	2.00
## 2014-06-02	2	2014-06-02	2.00
## 2014-06-05	0	2014-06-05	0.00
## 2014-06-06	0	2014-06-06	0.00
## 2014-06-16	1	2014-06-16	1.00
## 2014-06-17	0	2014-06-17	0.00
## 2014-06-24	1	2014-06-24	1.00
## 2014-07-08	3	2014-07-08	3.00
## 2014-07-14	3	2014-07-14	3.00
## 2014-07-18	1	2014-07-18	1.00
## 2014-07-29	0	2014-07-29	0.00
## 2014-08-04	2	2014-08-04	2.00
## 2014-08-05	2	2014-08-05	2.00
## 2014-08-08	1	2014-08-08	1.00
## 2014-08-12	1	2014-08-12	1.00
## 2014-08-14	0	2014-08-14	0.00
## 2014-08-18	0	2014-08-18	0.00
## 2014-08-22	0	2014-08-22	0.00
## 2014-08-25	1	2014-08-25	1.00
## 2014-09-02	2	2014-09-02	2.00
## 2014-09-05	2	2014-09-05	2.00
## 2014-09-09	2	2014-09-09	2.00
## 2014-09-11	5	2014-09-11	5.00
## 2014-09-23	0	2014-09-23	0.00
## 2014-09-25	1	2014-09-25	1.00
## 2014-09-26	3	2014-09-26	3.00

## 2014-09-30	3	2014-09-30	3.00
## 2014-10-01	3	2014-10-01	3.00
## 2014-10-02	0	2014-10-02	0.00
## 2014-10-06	2	2014-10-06	2.00
## 2014-10-09	3	2014-10-09	3.00
## 2014-10-15	0	2014-10-15	0.00
## 2014-10-16	0	2014-10-16	0.00
## 2014-10-21	2	2014-10-21	2.00
## 2014-10-29	1	2014-10-29	1.00
## 2014-11-04	2	2014-11-04	2.00
## 2014-11-07	1	2014-11-07	1.00
## 2014-11-14	3	2014-11-14	3.00
## 2014-11-18	3	2014-11-18	3.00
## 2014-12-08	2	2014-12-08	2.00
## 2014-12-09	1	2014-12-09	1.00
## 2014-12-10	1	2014-12-10	1.00
## 2014-12-22	1	2014-12-22	1.00
## 2014-12-26	2	2014-12-26	2.00
## 2014-12-30	0	2014-12-30	0.00
## 2014-12-31	0	2014-12-31	0.00
## 2015-01-22	0	2015-01-22	0.00
## 2015-02-09	2	2015-02-09	2.00
## 2015-02-18	2	2015-02-18	2.00
## 2015-02-26	0	2015-02-26	0.00
## 2015-03-06	3	2015-03-06	3.00
## 2015-03-09	3	2015-03-09	3.00
## 2015-03-18	3	2015-03-18	3.00
## 2015-03-23	0	2015-03-23	0.00
## 2015-03-30	2	2015-03-30	2.00
## 2015-04-01	2	2015-04-01	2.00
## 2015-04-06	1	2015-04-06	1.00
## 2015-04-17	3	2015-04-17	3.00
## 2015-04-21	0	2015-04-21	0.00
## 2015-04-22	1	2015-04-22	1.00
## 2015-04-28	0	2015-04-28	0.00
## 2015-05-06	3	2015-05-06	3.00
## 2015-05-12	7	2015-05-12	7.00
## 2015-05-13	7	2015-05-13	7.00
## 2015-05-14	7	2015-05-14	7.00
## 2015-05-15	7	2015-05-15	7.00
## 2015-05-18	7	2015-05-18	7.00
## 2015-05-29	1	2015-05-29	1.00
## 2015-06-03	2	2015-06-03	2.00
## 2015-06-10	4	2015-06-10	4.00
## 2015-06-15	1	2015-06-15	1.00
## 2015-06-17	1	2015-06-17	1.00
## 2015-06-22	0	2015-06-22	0.00
## 2015-06-25	4	2015-06-25	4.00
## 2015-06-26	4	2015-06-26	4.00
## 2015-06-29	4	2015-06-29	4.00

## 2015-06-30	7	2015-06-30	7.00
## 2015-07-07	7	2015-07-07	7.00
## 2015-07-08	7	2015-07-08	7.00
## 2015-07-09	7	2015-07-09	7.00
## 2015-07-10	7	2015-07-10	7.00
## 2015-07-14	1	2015-07-14	1.00
## 2015-07-28	4	2015-07-28	4.00
## 2015-07-29	4	2015-07-29	4.00
## 2015-07-31	1	2015-07-31	1.00
## 2015-08-03	1	2015-08-03	1.00
## 2015-08-06	3	2015-08-06	3.00
## 2015-08-12	1	2015-08-12	1.00
## 2015-08-13	1	2015-08-13	1.00
## 2015-08-17	6	2015-08-17	6.00
## 2015-08-18	6	2015-08-18	6.00
## 2015-08-25	6	2015-08-25	6.00
## 2015-09-01	1	2015-09-01	1.00
## 2015-09-04	1	2015-09-04	1.00
## 2015-09-10	2	2015-09-10	2.00
## 2015-09-17	9	2015-09-17	10.00
## 2015-09-29	9	2015-09-29	10.00
## 2015-10-05	1	2015-10-05	1.00
## 2015-10-06	1	2015-10-06	1.00
## 2015-10-08	0	2015-10-08	0.00
## 2015-10-09	3	2015-10-09	3.00
## 2015-10-19	3	2015-10-19	3.00
## 2015-10-23	0	2015-10-23	0.00
## 2015-10-27	2	2015-10-27	2.00
## 2015-10-28	2	2015-10-28	2.00
## 2015-11-20	1	2015-11-20	1.00
## 2015-12-01	0	2015-12-01	0.00
## 2015-12-03	3	2015-12-03	3.00
## 2015-12-08	1	2015-12-08	1.00
## 2015-12-15	3	2015-12-15	3.00
## 2015-12-16	3	2015-12-16	3.00
## 2015-12-22	0	2015-12-22	0.00
## 2015-12-23	0	2015-12-23	0.00
## 2015-12-30	1	2015-12-30	1.00
## 2015-12-31	11	2015-12-31	10.00
## 2016-01-06	11	2016-01-06	11.00
## 2016-01-15	11	2016-01-15	10.00
## 2016-01-19	11	2016-01-19	10.00
## 2016-01-26	2	2016-01-26	2.00
## 2016-01-27	2	2016-01-27	2.00
## 2016-02-03	2	2016-02-03	2.00
## 2016-02-04	5	2016-02-04	5.00
## 2016-02-05	5	2016-02-05	5.00
## 2016-02-10	5	2016-02-10	5.00
## 2016-02-18	1	2016-02-18	1.00
## 2016-02-19	0	2016-02-19	0.00

## 2016-02-24	2	2016-02-24	2.00
## 2016-02-25	0	2016-02-25	0.00
## 2016-03-04	1	2016-03-04	1.00
## 2016-03-11	0	2016-03-11	0.00
## 2016-03-15	1	2016-03-15	1.00
## 2016-03-16	0	2016-03-16	0.00
## 2016-03-23	4	2016-03-23	4.00
## 2016-03-24	1	2016-03-24	1.00
## 2016-03-31	2	2016-03-31	2.00
## 2016-04-07	2	2016-04-07	2.00
## 2016-04-08	2	2016-04-08	2.00
## 2016-04-14	0	2016-04-14	0.00
## 2016-04-25	1	2016-04-25	1.00
## 2016-04-26	3	2016-04-26	3.00
## 2016-05-04	2	2016-05-04	2.00
## 2016-05-10	2	2016-05-10	2.00
## 2016-05-19	2	2016-05-19	2.00
## 2016-05-23	1	2016-05-23	1.00
## 2016-05-24	0	2016-05-24	0.00
## 2016-05-27	0	2016-05-27	0.00
## 2016-06-07	1	2016-06-07	1.00
## 2016-06-08	0	2016-06-08	0.00
## 2016-06-09	3	2016-06-09	3.00
## 2016-06-13	3	2016-06-13	3.00
## 2016-06-14	3	2016-06-14	3.00
## 2016-06-17	0	2016-06-17	0.00
## 2016-06-20	0	2016-06-20	0.00
## 2016-06-21	1	2016-06-21	1.00
## 2016-06-22	1	2016-06-22	1.00
## 2016-06-23	2	2016-06-23	2.00
## 2016-06-27	2	2016-06-27	2.00
## 2016-07-25	0	2016-07-25	0.00
## 2016-07-29	2	2016-07-29	2.00
## 2016-08-03	0	2016-08-03	0.00
## 2016-08-09	0	2016-08-09	0.00
## 2016-08-12	1	2016-08-12	1.00
## 2016-08-24	3	2016-08-24	3.00
## 2016-08-29	1	2016-08-29	1.00
## 2016-09-06	3	2016-09-06	3.00
## 2016-09-12	1	2016-09-12	1.00
## 2016-09-15	3	2016-09-15	3.00
## 2016-09-16	3	2016-09-16	3.00
## 2016-09-23	0	2016-09-23	0.00
## 2016-09-26	0	2016-09-26	0.00
## 2016-09-29	1	2016-09-29	1.00
## 2016-10-03	0	2016-10-03	0.00
## 2016-10-06	2	2016-10-06	2.00
## 2016-10-11	4	2016-10-11	4.00
## 2016-10-12	4	2016-10-12	4.00
## 2016-10-25	4	2016-10-25	4.00

## 2016-10-27	4	2016-10-27	4.00
## 2016-10-28	4	2016-10-28	4.00
## 2016-10-31	1	2016-10-31	1.00
## 2016-11-02	1	2016-11-02	1.00
## 2016-11-03	1	2016-11-03	1.00
## 2016-11-04	0	2016-11-04	0.00
## 2016-11-07	0	2016-11-07	0.00
## 2016-11-08	0	2016-11-08	0.00
## 2016-11-17	0	2016-11-17	0.00
## 2016-11-21	0	2016-11-21	0.00
## 2016-11-25	2	2016-11-25	2.00
## 2016-11-30	3	2016-11-30	3.00
## 2016-12-02	3	2016-12-02	3.00
## 2016-12-05	2	2016-12-05	2.00
## 2016-12-08	2	2016-12-08	2.00
## 2016-12-09	2	2016-12-09	2.00
## 2016-12-14	1	2016-12-14	1.00
## 2016-12-16	1	2016-12-16	1.00
## 2017-01-12	1	2017-01-12	1.00
## 2017-01-26	2	2017-01-26	2.00
## 2017-02-02	5	2017-02-02	5.00
## 2017-02-07	5	2017-02-07	5.00
## 2017-02-14	7	2017-02-14	7.00
## 2017-02-17	7	2017-02-17	7.00
## 2017-02-24	7	2017-02-24	7.00
## 2017-02-27	1	2017-02-27	1.00
## 2017-02-28	1	2017-02-28	1.00
## 2017-03-02	2	2017-03-02	2.00
## 2017-03-07	1	2017-03-07	1.00
## 2017-03-15	0	2017-03-15	0.00
## 2017-03-21	6	2017-03-21	6.00
## 2017-03-22	6	2017-03-22	6.00
## 2017-03-31	1	2017-03-31	1.00
## 2017-04-06	2	2017-04-06	2.00
## 2017-04-13	2	2017-04-13	2.00
## 2017-04-17	0	2017-04-17	0.00
## 2017-04-18	1	2017-04-18	1.00
## 2017-04-25	0	2017-04-25	0.00
## 2017-05-02	1	2017-05-02	1.00
## 2017-05-05	0	2017-05-05	0.00
## 2017-05-08	2	2017-05-08	2.00
## 2017-05-12	1	2017-05-12	1.00
## 2017-05-18	1	2017-05-18	1.00
## 2017-05-25	1	2017-05-25	1.00
## 2017-05-30	0	2017-05-30	0.00
## 2017-06-05	1	2017-06-05	1.00
## 2017-06-09	1	2017-06-09	1.00
## 2017-06-14	2	2017-06-14	2.00
## 2017-06-22	0	2017-06-22	0.00
## 2017-06-27	2	2017-06-27	2.00

## 2017-07-05	1	2017-07-05	1.00
## 2017-07-10	0	2017-07-10	0.00
## 2017-07-11	0	2017-07-11	0.00
## 2017-07-12	1	2017-07-12	1.00
## 2017-07-14	1	2017-07-14	1.00
## 2017-07-21	4	2017-07-21	4.00
## 2017-07-24	4	2017-07-24	4.00
## 2017-07-26	0	2017-07-26	0.00
## 2017-07-27	0	2017-07-27	0.00
## 2017-07-28	1	2017-07-28	1.00
## 2017-07-31	1	2017-07-31	1.00
## 2017-08-03	2	2017-08-03	2.00
## 2017-08-10	3	2017-08-10	3.00
## 2017-08-15	1	2017-08-15	1.00
## 2017-08-25	1	2017-08-25	1.00
## 2017-08-29	0	2017-08-29	0.00
## 2017-08-30	1	2017-08-30	1.00
## 2017-09-15	1	2017-09-15	1.00
## 2017-09-25	4	2017-09-25	4.00
## 2017-09-28	1	2017-09-28	1.00
## 2017-10-02	0	2017-10-02	0.00
## 2017-10-10	7	2017-10-10	7.00
## 2017-10-16	7	2017-10-16	7.00
## 2017-10-20	1	2017-10-20	1.00
## 2017-10-31	3	2017-10-31	3.00
## 2017-11-01	3	2017-11-01	3.00
## 2017-11-02	3	2017-11-02	3.00
## 2017-11-06	2	2017-11-06	2.00
## 2017-11-15	1	2017-11-15	1.00
## 2017-11-20	1	2017-11-20	1.00
## 2017-11-21	1	2017-11-21	1.00
## 2017-11-28	8	2017-11-28	8.00
## 2017-11-29	8	2017-11-29	8.00
## 2017-12-05	8	2017-12-05	8.00
## 2017-12-06	8	2017-12-06	8.00
## 2017-12-07	8	2017-12-07	8.00
## 2017-12-11	0	2017-12-11	0.00
## 2017-12-14	1	2017-12-14	1.00
## 2017-12-18	4	2017-12-18	4.00
## 2018-01-10	2	2018-01-10	2.00
## 2018-01-12	1	2018-01-12	1.00
## 2018-01-16	1	2018-01-16	1.00
## 2018-01-17	2	2018-01-17	2.00
## 2018-01-23	1	2018-01-23	1.00
## 2018-01-25	0	2018-01-25	0.00
## 2018-01-26	0	2018-01-26	0.00
## 2018-01-31	0	2018-01-31	0.00
## 2018-02-01	2	2018-02-01	2.00
## 2018-02-06	0	2018-02-06	0.00
## 2018-02-26	4	2018-02-26	4.00

## 2018-03-02	1	2018-03-02	1.00
## 2018-03-06	0	2018-03-06	0.00
## 2018-03-08	1	2018-03-08	1.00
## 2018-03-09	0	2018-03-09	0.00
## 2018-03-13	1	2018-03-13	1.00
## 2018-03-15	7	2018-03-15	7.00
## 2018-03-16	7	2018-03-16	7.00
## 2018-03-26	1	2018-03-26	1.00
## 2018-03-28	0	2018-03-28	0.00
## 2018-04-03	0	2018-04-03	0.00
## 2018-04-10	0	2018-04-10	0.00
## 2018-04-17	3	2018-04-17	3.00
## 2018-04-18	3	2018-04-18	3.00
## 2018-04-20	3	2018-04-20	3.00
## 2018-04-23	2	2018-04-23	2.00
## 2018-04-30	1	2018-04-30	1.00
## 2018-05-01	1	2018-05-01	1.00
## 2018-05-02	1	2018-05-02	1.00
## 2018-05-03	1	2018-05-03	1.00
## 2018-05-09	3	2018-05-09	3.00
## 2018-05-10	3	2018-05-10	3.00
## 2018-05-16	0	2018-05-16	0.00
## 2018-05-18	0	2018-05-18	0.00
## 2018-05-22	1	2018-05-22	1.00
## 2018-05-31	1	2018-05-31	1.00
## 2018-06-06	2	2018-06-06	2.00
## 2018-06-14	1	2018-06-14	1.00
## 2018-06-15	1	2018-06-15	1.00
## 2018-06-18	0	2018-06-18	0.00
## 2018-06-28	0	2018-06-28	0.00
## 2018-07-02	1	2018-07-02	1.00
## 2018-07-03	1	2018-07-03	1.00
## 2018-07-06	1	2018-07-06	1.00
## 2018-07-10	2	2018-07-10	2.00
## 2018-07-17	5	2018-07-17	5.00
## 2018-07-19	5	2018-07-19	5.00
## 2018-07-20	5	2018-07-20	5.00
## 2018-07-26	3	2018-07-26	3.00
## 2018-07-30	3	2018-07-30	3.00
## 2018-08-01	0	2018-08-01	0.00
## 2018-08-03	0	2018-08-03	0.00
## 2018-08-06	2	2018-08-06	2.00
## 2018-08-09	0	2018-08-09	0.00
## 2018-08-13	1	2018-08-13	1.00
## 2018-08-15	6	2018-08-15	6.00
## 2018-08-22	6	2018-08-22	6.00
## 2018-08-23	0	2018-08-23	0.00
## 2018-08-29	1	2018-08-29	1.00
## 2018-08-30	1	2018-08-30	1.00
## 2018-08-31	3	2018-08-31	3.00

## 2018-09-05	3	2018-09-05	3.00
## 2018-09-18	1	2018-09-18	1.00
## 2018-09-19	1	2018-09-19	1.00
## 2018-09-21	2	2018-09-21	2.00
## 2018-09-25	1	2018-09-25	1.00
## 2018-09-28	3	2018-09-28	3.00
## 2018-10-09	5	2018-10-09	5.00
## 2018-10-16	3	2018-10-16	3.00
## 2018-10-22	2	2018-10-22	2.00
## 2018-10-29	2	2018-10-29	2.00
## 2018-10-31	0	2018-10-31	0.00
## 2018-11-05	0	2018-11-05	0.00
## 2018-11-06	0	2018-11-06	0.00
## 2018-11-08	2	2018-11-08	2.00
## 2018-11-23	0	2018-11-23	0.00
## 2018-11-26	1	2018-11-26	1.00
## 2018-11-29	1	2018-11-29	1.00
## 2018-12-10	0	2018-12-10	0.00
## 2018-12-11	1	2018-12-11	1.00
## 2018-12-14	3	2018-12-14	3.00
## 2018-12-17	3	2018-12-17	3.00
## 2018-12-18	3	2018-12-18	3.00
## 2018-12-21	2	2018-12-21	2.00
## 2018-12-28	1	2018-12-28	1.00
## 2019-01-02	2	2019-01-02	2.00
## 2019-01-08	0	2019-01-08	0.00
## 2019-01-09	1	2019-01-09	1.00
## 2019-01-11	1	2019-01-11	1.00
## 2019-01-14	1	2019-01-14	1.00
## 2019-01-15	0	2019-01-15	0.00
## 2019-01-16	0	2019-01-16	0.00
## 2019-01-17	0	2019-01-17	0.00
## 2019-01-29	2	2019-01-29	2.00
## 2019-01-30	1	2019-01-30	1.00
## 2019-02-05	3	2019-02-05	3.00
## 2019-02-12	2	2019-02-12	2.00
## 2019-02-19	3	2019-02-19	3.00
## 2019-02-21	3	2019-02-21	3.00
## 2019-02-25	10	2019-02-25	10.00
## 2019-02-26	10	2019-02-26	10.00
## 2019-02-28	10	2019-02-28	10.00
## 2019-03-05	10	2019-03-05	10.00
## 2019-03-06	10	2019-03-06	10.00
## 2019-03-18	3	2019-03-18	3.00
## 2019-03-28	1	2019-03-28	1.00
## 2019-04-01	0	2019-04-01	0.00
## 2019-04-12	3	2019-04-12	3.00
## 2019-04-16	0	2019-04-16	0.00
## 2019-04-22	0	2019-04-22	0.00
## 2019-04-24	1	2019-04-24	1.00

## 2019-04-26	0	2019-04-26	0.00
## 2019-04-30	2	2019-04-30	2.00
## 2019-05-01	2	2019-05-01	2.00
## 2019-05-10	3	2019-05-10	3.00
## 2019-05-14	0	2019-05-14	0.00
## 2019-05-21	2	2019-05-21	2.00
## 2019-06-11	1	2019-06-11	1.00
## 2019-06-17	0	2019-06-17	0.00
## 2019-06-24	1	2019-06-24	1.00
## 2019-06-26	0	2019-06-26	0.00
## 2019-07-09	0	2019-07-09	0.00
## 2019-07-11	0	2019-07-11	0.00
## 2019-07-15	1	2019-07-15	1.00
## 2019-07-17	4	2019-07-17	4.00
## 2019-07-18	4	2019-07-18	4.00
## 2019-07-24	1	2019-07-24	1.00
## 2019-08-02	1	2019-08-02	1.00
## 2019-08-06	0	2019-08-06	0.00
## 2019-08-07	0	2019-08-07	0.00
## 2019-08-13	3	2019-08-13	3.00
## 2019-08-15	0	2019-08-15	0.00
## 2019-08-19	2	2019-08-19	2.00
## 2019-08-28	0	2019-08-28	0.00
## 2019-08-30	3	2019-08-30	3.00
## 2019-09-10	0	2019-09-10	0.00
## 2019-09-11	0	2019-09-11	0.00
## 2019-09-18	6	2019-09-18	6.00
## 2019-09-19	6	2019-09-19	6.00
## 2019-09-30	0	2019-09-30	0.00
## 2019-10-03	2	2019-10-03	2.00
## 2019-10-07	4	2019-10-07	4.00
## 2019-10-08	4	2019-10-08	4.00
## 2019-10-11	0	2019-10-11	0.00
## 2019-10-15	0	2019-10-15	0.00
## 2019-10-21	0	2019-10-21	0.00
## 2019-10-22	2	2019-10-22	2.00
## 2019-10-24	2	2019-10-24	2.00
## 2019-10-25	0	2019-10-25	0.00
## 2019-11-04	4	2019-11-04	4.00
## 2019-11-11	3	2019-11-11	3.00
## 2019-11-19	3	2019-11-19	3.00
## 2019-11-21	3	2019-11-21	3.00
## 2019-11-26	0	2019-11-26	0.00
## 2019-12-03	0	2019-12-03	0.00
## 2019-12-04	5	2019-12-04	5.00
## 2019-12-05	5	2019-12-05	5.00
## 2019-12-06	5	2019-12-06	5.00
## 2019-12-12	0	2019-12-12	0.00
## 2019-12-16	0	2019-12-16	0.00
## 2019-12-17	0	2019-12-17	0.00

## 2020-01-03	3	2020-01-03	3.00
## 2020-01-10	0	2020-01-10	0.00
## 2020-01-15	0	2020-01-15	0.00
## 2020-01-17	2	2020-01-17	2.00
## 2020-01-21	2	2020-01-21	2.00
## 2020-01-22	0	2020-01-22	0.00
## 2020-01-29	3	2020-01-29	3.00
## 2020-02-04	0	2020-02-04	0.00
## 2020-02-11	0	2020-02-11	0.00
## 2020-02-19	3	2020-02-19	3.00
## 2020-02-24	2	2020-02-24	2.00
## 2020-03-03	1	2020-03-03	1.00
## 2020-03-04	3	2020-03-04	3.00
## results_round	100	results_round	0.99

The accuracy in prediction is about the same for decreasing days in the cycle as the target instead of the increasing days in the cycle that was the target when predicting the AAL stock increasing days by select features.

Now, lets see how well these algorithms predict the NextDayPrice. But first remove the added predictive measures just done.

```
sYELP1 <- sYELP[,c(4,5,9,14,15,19,20,21,24,25)]
sYELP1$NextDayPrice <- lead(sYELP1$stockDayValue,1)
sYELP1 <- sYELP1[complete.cases(sYELP1$NextDayPrice),]
row.names(sYELP1) <- as.factor(sYELP1$Date)
sYELP1 <- sYELP1[, -c(1)]
```

Now, we can see how well the next day price is predicted.

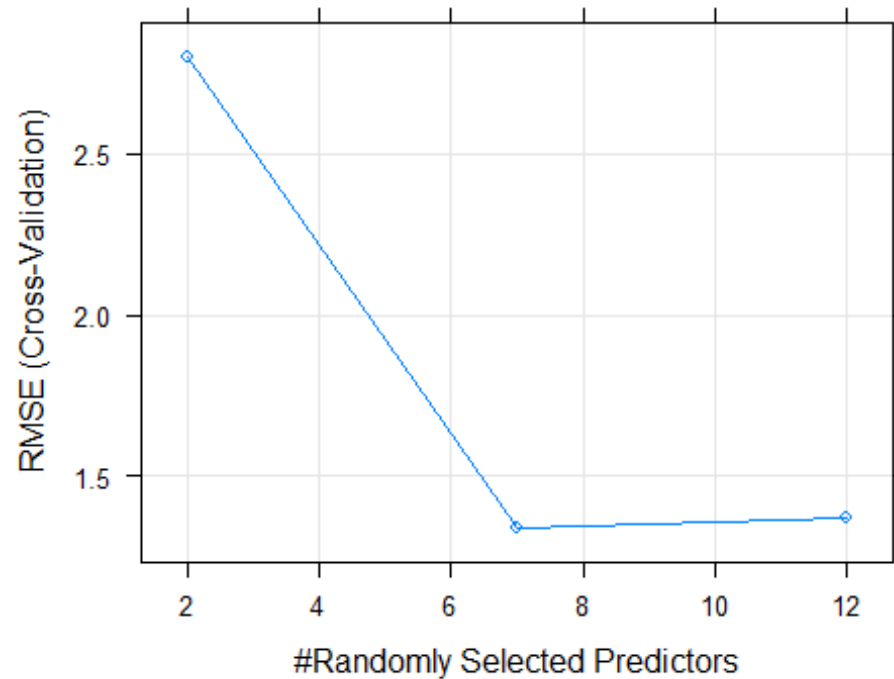
```
set.seed(12356789)

inTrain <- createDataPartition(y=sYELP1$NextDayPrice, p=0.7, list=FALSE)

trainingSet <- sYELP1[inTrain,]
testingSet <- sYELP1[-inTrain,]

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

plot(rfMod)
```



```
predRF <- predict(rfMod, testingSet)
```

```
predDF <- data.frame(predRF, nextDayPrice=testingSet$NextDayPrice)
predDF
```

##		predRF	nextDayPrice
##	2012-03-16	21.85275	22.99
##	2012-03-21	23.44335	23.22
##	2012-03-23	23.51716	24.60
##	2012-03-27	26.73156	28.09
##	2012-03-29	27.36484	26.89
##	2012-04-02	26.96272	26.70
##	2012-04-12	26.50815	26.33
##	2012-04-13	25.49692	25.87
##	2012-04-19	23.62690	23.10
##	2012-04-24	20.59442	21.13
##	2012-04-25	21.28897	21.20
##	2012-04-26	21.39161	21.90
##	2012-05-04	21.33528	21.41
##	2012-05-11	20.17666	20.04
##	2012-05-22	19.61389	18.32
##	2012-05-29	16.65153	16.61
##	2012-06-20	20.08548	21.00
##	2012-06-25	22.91552	22.04
##	2012-06-26	22.76131	22.79
##	2012-07-03	25.43444	26.16
##	2012-07-09	24.60876	22.63

##	2012-07-11	21.52866	22.14
##	2012-07-12	21.78514	21.64
##	2012-07-18	23.16843	24.00
##	2012-07-23	22.58773	22.51
##	2012-08-03	23.82152	25.43
##	2012-08-07	26.21300	26.46
##	2012-08-08	26.10273	25.73
##	2012-08-22	18.21623	18.19
##	2012-09-12	25.03431	23.95
##	2012-09-25	25.70208	25.68
##	2012-09-28	27.00187	27.76
##	2012-10-03	28.31028	28.89
##	2012-10-05	27.35450	28.27
##	2012-10-08	27.31120	27.43
##	2012-10-09	27.32595	25.61
##	2012-10-10	26.70605	25.73
##	2012-10-11	25.42030	25.24
##	2012-10-18	24.80692	24.61
##	2012-10-22	23.61323	24.00
##	2012-10-23	23.73888	25.77
##	2012-10-25	23.44300	23.17
##	2012-11-05	18.79582	18.25
##	2012-11-07	18.50307	17.77
##	2012-11-12	16.88190	17.21
##	2012-11-26	19.21358	20.24
##	2012-12-05	18.61026	18.09
##	2012-12-17	18.62450	18.06
##	2012-12-21	19.07286	18.44
##	2012-12-28	19.05575	18.85
##	2012-12-31	19.01620	19.70
##	2013-01-02	19.76131	20.15
##	2013-01-09	20.96266	22.19
##	2013-01-22	20.80195	20.34
##	2013-01-29	20.78301	20.46
##	2013-02-01	19.74486	20.34
##	2013-02-05	21.33222	22.38
##	2013-02-07	21.64752	21.85
##	2013-02-22	22.38780	21.62
##	2013-02-25	21.43292	21.29
##	2013-02-26	21.50692	21.86
##	2013-02-27	22.08193	22.19
##	2013-03-04	23.47170	23.02
##	2013-03-05	22.60664	23.02
##	2013-03-15	24.67680	24.50
##	2013-03-18	24.33363	24.28
##	2013-03-20	23.33808	24.00
##	2013-03-21	22.42874	23.79
##	2013-03-26	24.49020	23.72
##	2013-03-28	22.53192	22.89
##	2013-04-02	23.19942	23.05

##	2013-04-09	25.11176	25.75
##	2013-04-18	26.62588	25.50
##	2013-04-23	25.18417	24.97
##	2013-04-25	25.94468	25.45
##	2013-04-29	25.66675	26.03
##	2013-05-02	30.75113	31.12
##	2013-05-06	30.59960	30.67
##	2013-05-07	30.45038	29.91
##	2013-05-10	30.79316	30.92
##	2013-05-23	29.43234	29.34
##	2013-05-24	29.62564	29.95
##	2013-05-31	29.64424	28.15
##	2013-06-06	29.22084	30.11
##	2013-06-13	29.98241	30.84
##	2013-06-14	30.70180	31.75
##	2013-06-27	34.83382	34.77
##	2013-07-03	34.84284	34.99
##	2013-07-08	35.00479	37.24
##	2013-07-09	37.02856	36.90
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##	2013-07-24	39.95878	41.52
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##	2013-08-06	52.48805	52.08
##	2013-08-16	48.91560	49.23
##	2013-08-23	51.53239	51.26
##	2013-08-27	50.85845	51.67
##	2013-08-29	52.89618	51.98
##	2013-09-12	62.57984	62.91
##	2013-09-25	67.98046	68.45
##	2013-09-26	66.89939	68.05
##	2013-10-02	71.02425	71.02
##	2013-10-04	71.29001	69.93
##	2013-10-08	63.11296	63.47
##	2013-10-24	67.80351	68.00
##	2013-10-29	69.07002	67.05
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##	2013-11-22	61.64791	58.20
##	2013-11-25	58.53372	61.92
##	2013-11-26	60.02732	61.54
##	2013-11-29	58.92648	59.96
##	2013-12-04	62.42923	62.62
##	2013-12-09	65.15281	65.53
##	2013-12-10	65.61284	63.10
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## 2014-02-27	95.20073	94.42
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## 2014-05-27	64.04979	63.42
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## 2014-06-27	77.78523	76.68
## 2014-06-30	77.08048	77.63
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##	2015-02-27	47.67859	47.86
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##	2015-10-09	24.73694	22.74
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##	2018-07-27	38.13337	37.27
##	2018-08-03	38.18402	38.75
##	2018-08-15	46.21431	46.35
##	2018-08-17	44.78561	44.74
##	2018-08-27	46.80610	46.74
##	2018-08-29	46.92537	46.82
##	2018-09-07	45.27767	45.25
##	2018-09-11	45.77087	45.72
##	2018-09-12	46.67328	45.94
##	2018-09-14	46.25316	46.28
##	2018-09-17	46.26848	49.97
##	2018-10-08	44.71481	44.63
##	2018-10-12	43.21971	42.96
##	2018-10-16	43.22674	43.93
##	2018-10-19	43.05847	42.99
##	2018-11-01	43.40530	43.10
##	2018-11-08	43.14671	31.93
##	2018-11-12	33.51886	33.67
##	2018-11-27	31.86070	32.44
##	2018-12-06	34.69116	34.59
##	2018-12-07	34.84231	35.64
##	2018-12-20	32.94506	32.10
##	2018-12-24	32.85179	34.14
##	2018-12-26	34.12713	34.95
##	2018-12-31	34.64109	34.57
##	2019-01-04	34.70990	34.83
##	2019-01-07	35.00392	35.51
##	2019-01-09	35.53957	34.31
##	2019-01-22	35.71230	35.47
##	2019-01-28	36.54531	36.22
##	2019-02-06	36.82228	36.25

##	2019-02-12	38.59961	38.46
##	2019-02-13	39.53255	38.19
##	2019-02-14	39.14355	39.94
##	2019-02-21	38.45173	38.54
##	2019-02-25	37.87646	37.90
##	2019-02-28	36.89225	37.13
##	2019-03-01	36.68207	36.74
##	2019-03-07	33.70354	34.74
##	2019-03-12	33.70753	34.55
##	2019-03-14	35.04614	35.10
##	2019-03-15	34.67481	34.88
##	2019-03-19	33.68329	34.60
##	2019-03-20	34.42603	34.89
##	2019-03-21	34.55506	34.36
##	2019-03-22	34.78872	34.71
##	2019-03-27	34.91318	34.68
##	2019-03-28	34.55004	34.50
##	2019-03-29	34.83794	35.03
##	2019-04-01	35.36909	35.36
##	2019-04-10	35.59513	35.72
##	2019-04-12	34.70229	35.42
##	2019-04-22	37.31730	38.12
##	2019-04-24	38.86287	39.51
##	2019-04-25	39.17447	39.52
##	2019-04-26	40.36802	40.06
##	2019-05-01	41.03186	40.19
##	2019-05-22	31.57455	31.63
##	2019-05-24	31.98328	31.46
##	2019-05-29	31.07825	31.23
##	2019-06-07	31.76947	31.95
##	2019-06-19	33.02477	33.14
##	2019-06-26	33.58237	33.95
##	2019-06-27	34.33012	34.18
##	2019-07-05	35.28197	34.99
##	2019-07-15	35.89750	35.62
##	2019-07-18	33.69018	34.08
##	2019-07-19	33.70396	33.87
##	2019-07-29	35.73993	35.55
##	2019-07-30	35.35840	35.05
##	2019-07-31	34.32161	34.93
##	2019-08-02	35.10320	33.53
##	2019-08-12	34.43493	34.62
##	2019-08-15	33.39006	33.17
##	2019-08-16	33.21847	32.92
##	2019-08-23	32.38936	32.03
##	2019-08-30	33.15596	33.21
##	2019-09-03	32.71912	32.84
##	2019-09-06	33.07777	33.23
##	2019-09-10	34.06713	34.60
##	2019-09-11	34.74039	36.52

```
## 2019-09-12 36.52012      37.44
## 2019-09-24 34.48479      34.96
## 2019-10-07 32.88152      32.75
## 2019-10-09 31.48928      32.22
## 2019-10-22 33.61399      33.53
## 2019-10-23 32.95826      33.51
## 2019-10-30 34.43546      34.51
## 2019-11-01 34.65372      34.24
## 2019-11-05 32.90434      32.71
## 2019-11-18 34.24419      34.35
## 2019-11-21 34.27181      35.26
## 2019-11-27 35.05092      34.68
## 2019-12-02 33.82569      33.66
## 2019-12-11 32.90691      33.39
## 2019-12-12 33.64174      33.55
## 2019-12-13 33.76395      33.78
## 2019-12-16 34.12728      34.00
## 2019-12-20 34.07549      34.21
## 2019-12-23 34.35185      34.06
## 2019-12-26 34.79605      34.85
## 2019-12-31 34.11788      34.77
## 2020-01-10 35.53191      36.23
## 2020-01-29 34.67837      34.77
## 2020-02-04 34.15307      34.66
## 2020-02-07 34.32450      34.20
## 2020-02-11 34.97176      35.36
## 2020-02-13 35.99384      35.23
## 2020-02-19 34.04413      34.64
## 2020-02-20 34.00272      34.00
## 2020-02-27 31.43517      31.27
## 2020-03-02 31.46620      30.59
## 2020-03-04 30.77505      29.14
## 2020-03-09 27.38778      27.81
```

```
sum <- sum(predRF==testingSet$NextDayPrice)
length <- length(testingSet$NextDayPrice)
accuracy_rfMod <- (sum/length)
accuracy_rfMod
```

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

```
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 nextDayPrice
## 2012-03-16      21.8527515231      22.99
```

##	2012-03-21	23.4433496296334	23.219999
##	2012-03-23	23.5171571670001	24.6
##	2012-03-27	26.7315608579667	28.09
##	2012-03-29	27.3648435893667	26.889999
##	2012-04-02	26.9627240613667	26.700001
##	2012-04-12	26.5081473320333	26.33
##	2012-04-13	25.4969236192	25.870001
##	2012-04-19	23.6269034890667	23.1
##	2012-04-24	20.5944217580667	21.129999
##	2012-04-25	21.2889651799667	21.200001
##	2012-04-26	21.3916120998333	21.9
##	2012-05-04	21.3352766541238	21.41
##	2012-05-11	20.1766577361667	20.040001
##	2012-05-22	19.6138927228333	18.32
##	2012-05-29	16.6515347609333	16.610001
##	2012-06-20	20.0854815850334	21
##	2012-06-25	22.9155171123334	22.040001
##	2012-06-26	22.7613093761001	22.790001
##	2012-07-03	25.4344445799667	26.16
##	2012-07-09	24.6087567422334	22.629999
##	2012-07-11	21.5286605817334	22.139999
##	2012-07-12	21.7851445682333	21.639999
##	2012-07-18	23.1684302918667	24
##	2012-07-23	22.5877293654667	22.51
##	2012-08-03	23.8215202886	25.43
##	2012-08-07	26.2130035106667	26.459999
##	2012-08-08	26.1027298571667	25.73
##	2012-08-22	18.2162299556	18.190001
##	2012-09-12	25.0343093901	23.950001
##	2012-09-25	25.7020756728	25.68
##	2012-09-28	27.001871156	27.76
##	2012-10-03	28.3102780652333	28.889999
##	2012-10-05	27.3545024159	28.27
##	2012-10-08	27.3111955584667	27.43
##	2012-10-09	27.3259489885667	25.610001
##	2012-10-10	26.7060549194333	25.73
##	2012-10-11	25.420298464	25.24
##	2012-10-18	24.8069210840334	24.610001
##	2012-10-22	23.6132347371	24
##	2012-10-23	23.7388757895667	25.77
##	2012-10-25	23.4430023027334	23.17
##	2012-11-05	18.7958237824667	18.25
##	2012-11-07	18.5030689915	17.77
##	2012-11-12	16.8819036967	17.209999
##	2012-11-26	19.2135751367333	20.24
##	2012-12-05	18.6102622804667	18.09
##	2012-12-17	18.6244979056	18.059999
##	2012-12-21	19.0728561936666	18.440001
##	2012-12-28	19.0557485291333	18.85
##	2012-12-31	19.0161974055666	19.700001

## 2013-01-02	19.7613138706	20.15
## 2013-01-09	20.9626635338	22.190001
## 2013-01-22	20.8019539310333	20.34
## 2013-01-29	20.7830123604334	20.459999
## 2013-02-01	19.7448611049333	20.34
## 2013-02-05	21.3322236462905	22.379999
## 2013-02-07	21.6475249415333	21.85
## 2013-02-22	22.3878008825	21.620001
## 2013-02-25	21.4329193252334	21.290001
## 2013-02-26	21.5069223587	21.860001
## 2013-02-27	22.0819285846	22.190001
## 2013-03-04	23.4717024681667	23.02
## 2013-03-05	22.6066412439667	23.02
## 2013-03-15	24.6768002346	24.5
## 2013-03-18	24.3336276279667	24.280001
## 2013-03-20	23.3380781172333	24
## 2013-03-21	22.4287356807	23.790001
## 2013-03-26	24.4902037373048	23.719999
## 2013-03-28	22.5319182301334	22.889999
## 2013-04-02	23.1994227932667	23.049999
## 2013-04-09	25.1117647320667	25.75
## 2013-04-18	26.6258820097333	25.5
## 2013-04-23	25.1841714352667	24.969999
## 2013-04-25	25.9446791177667	25.450001
## 2013-04-29	25.6667451419667	26.030001
## 2013-05-02	30.7511255153333	31.120001
## 2013-05-06	30.5995976222333	30.67
## 2013-05-07	30.4503846158333	29.91
## 2013-05-10	30.7931603901333	30.92
## 2013-05-23	29.4323400601	29.34
## 2013-05-24	29.6256425740334	29.950001
## 2013-05-31	29.6442441480333	28.15
## 2013-06-06	29.2208351965666	30.110001
## 2013-06-13	29.9824076059334	30.84
## 2013-06-14	30.7018042019333	31.75
## 2013-06-27	34.8338152748333	34.77
## 2013-07-03	34.8428423935	34.990002
## 2013-07-08	35.0047855605667	37.240002
## 2013-07-09	37.0285621747	36.900002
## 2013-07-17	40.1779637575333	39.75
## 2013-07-19	41.2300803368333	40.990002
## 2013-07-24	39.9587846494667	41.52
## 2013-07-30	42.8743627331	41.799999
## 2013-08-01	50.6650126915668	57.02
## 2013-08-06	52.4880494620999	52.080002
## 2013-08-16	48.9155996030333	49.23
## 2013-08-23	51.5323901967333	51.259998
## 2013-08-27	50.8584459283	51.669998
## 2013-08-29	52.8961819374667	51.98
## 2013-09-12	62.5798434800667	62.91

## 2013-09-25	67.9804589177666	68.449997
## 2013-09-26	66.8993887879	68.050003
## 2013-10-02	71.0242509183667	71.019997
## 2013-10-04	71.2900143811667	69.93
## 2013-10-08	63.1129649967668	63.470001
## 2013-10-24	67.8035080304667	68
## 2013-10-29	69.0700246224666	67.050003
## 2013-11-15	68.6468244290667	64.43
## 2013-11-20	62.6916251960334	63.93
## 2013-11-22	61.6479064736668	58.200001
## 2013-11-25	58.5337230737	61.919998
## 2013-11-26	60.0273199920333	61.540001
## 2013-11-29	58.9264837434333	59.959999
## 2013-12-04	62.4292272080667	62.619999
## 2013-12-09	65.1528056931001	65.529999
## 2013-12-10	65.6128383489666	63.099998
## 2013-12-31	68.5174039968	67.919998
## 2014-01-02	66.7808226841999	67.660004
## 2014-01-06	70.5873192642	72.660004
## 2014-01-07	72.9227634990333	78.419998
## 2014-01-16	81.2817899251998	82.360001
## 2014-01-17	80.9104458304667	82.209999
## 2014-01-23	77.8423058809334	75.989998
## 2014-01-27	73.9612341391001	76.089996
## 2014-01-28	75.663785221	71.949997
## 2014-02-04	77.4823876693333	75.230003
## 2014-02-05	76.6325718782333	89.459999
## 2014-02-06	82.7718537667999	89.410004
## 2014-02-10	91.7486408151334	92.779999
## 2014-02-12	91.8631514175666	91.970001
## 2014-02-14	91.6867760355332	91.739998
## 2014-02-18	90.8530893478	90
## 2014-02-25	94.9660390402001	95.449997
## 2014-02-26	95.4258926340667	97.389999
## 2014-02-27	95.2007289143667	94.419998
## 2014-03-06	94.4849443988668	97.25
## 2014-03-12	90.3277375169	87.370003
## 2014-03-17	90.9991580275334	90.110001
## 2014-03-20	83.9286272508333	83.43
## 2014-03-27	78.7969283101998	76.440002
## 2014-03-31	77.5431427005333	80.18
## 2014-04-01	78.7725008654666	75.629997
## 2014-04-02	72.9533523748667	70.610001
## 2014-04-04	67.8831627321	66
## 2014-04-11	63.1083095072334	61.939999
## 2014-04-30	58.2932876922001	64.019997
## 2014-05-02	59.5567001411667	60.189999
## 2014-05-07	54.5660710398667	53.290001
## 2014-05-12	54.0191070244334	55.529999
## 2014-05-19	57.4782637652667	57.380001

## 2014-05-22	61.3755099007	61.540001
## 2014-05-27	64.0497927432667	63.419998
## 2014-05-28	63.7932106822	68.559998
## 2014-05-29	66.5269070498668	66.150002
## 2014-06-02	64.8852094369667	64.669998
## 2014-06-03	64.4202650712667	64.580002
## 2014-06-04	65.2965845244333	65
## 2014-06-11	66.7007944369334	65.839996
## 2014-06-17	75.1408064425666	77.010002
## 2014-06-23	77.1374335425333	75.830002
## 2014-06-27	77.7852263459332	76.68
## 2014-06-30	77.0804776074666	77.629997
## 2014-07-09	69.4605588968001	70.910004
## 2014-07-11	71.1574815726667	71.110001
## 2014-07-14	70.4809548679	69.019997
## 2014-07-16	63.8736681531333	66.529999
## 2014-07-17	69.0279076522333	68.349998
## 2014-07-23	69.6818058326001	69.769997
## 2014-07-28	70.0852356115333	69.480003
## 2014-08-01	68.5184230446333	68.57
## 2014-08-07	67.6646575027667	68
## 2014-08-13	72.5220304099334	74.900002
## 2014-08-21	80.6067549330665	81.599998
## 2014-08-22	80.2882837258667	82.599998
## 2014-08-25	80.9668336051	82.389999
## 2014-08-26	82.3761986544333	82.860001
## 2014-09-02	83.1042688434	83.290001
## 2014-09-03	81.4093785009999	81.910004
## 2014-09-05	81.2043803101999	82.43
## 2014-09-11	80.4707472005	81.779999
## 2014-09-17	76.0984796542667	76.07
## 2014-09-26	70.5788178533667	69.540001
## 2014-09-29	66.2791428704666	68.25
## 2014-09-30	66.8950538438332	67.110001
## 2014-10-01	68.613718151	69.07
## 2014-10-02	69.9486219094332	69.440002
## 2014-10-08	68.3229943998	69.620003
## 2014-10-10	65.3684514875667	62.119999
## 2014-10-24	57.6362332039001	57.209999
## 2014-10-27	57.2297470482667	59.110001
## 2014-10-31	60.4728152349668	61.32
## 2014-11-05	57.3194917683333	58.779999
## 2014-11-14	57.8812598597668	58
## 2014-11-17	56.7536549374334	57.459999
## 2014-11-26	57.8869570365333	57.09
## 2014-12-16	50.9028405747333	51.900002
## 2014-12-17	51.7888269159668	52.490002
## 2014-12-24	52.4722989300001	52.939999
## 2014-12-29	54.1552082354001	54.240002
## 2015-01-02	53.7151117485334	52.529999

## 2015-01-06	52.1370425956667	52.209999
## 2015-01-07	52.4279057323334	53.830002
## 2015-01-09	54.8853628953667	54.02
## 2015-01-12	53.3327900265334	53.18
## 2015-01-14	52.3884612837667	50.119999
## 2015-01-15	50.2327624489	51.389999
## 2015-01-22	55.4977755047	55.189999
## 2015-01-28	52.9438150363667	52.93
## 2015-02-04	57.6975713570667	57.470001
## 2015-02-06	48.7153497984	42.169998
## 2015-02-12	47.1772546198	47.529999
## 2015-02-19	47.5272702765001	47.790001
## 2015-02-27	47.6785855398	47.860001
## 2015-03-02	48.0222829753333	48.580002
## 2015-03-03	47.9874242129333	47.790001
## 2015-03-05	47.372753608	47.049999
## 2015-03-10	45.7152298756999	45.73
## 2015-03-13	46.1514349445333	46.709999
## 2015-03-16	46.2701583098	47.220001
## 2015-03-18	46.2325300199	45.18
## 2015-03-19	44.6791785103666	44.939999
## 2015-03-23	47.2119146600524	47.040001
## 2015-03-25	45.3737066288333	45.709999
## 2015-03-30	46.9107227972	47.349998
## 2015-04-01	46.0916445176666	47.139999
## 2015-04-06	47.0855356602	46.990002
## 2015-04-17	47.8956046296333	48.25
## 2015-05-01	39.1827986005334	39.610001
## 2015-05-05	38.4112953912	38.220001
## 2015-05-06	39.3201827098333	47.009998
## 2015-05-07	46.5704773021	49.93
## 2015-05-08	48.6892760019	48.619999
## 2015-05-13	47.1256631690667	47.349998
## 2015-05-18	45.7512653332	46.459999
## 2015-05-26	45.0927202392	45.52
## 2015-05-28	47.7592878351857	47.91
## 2015-06-11	43.7267112617	44.040001
## 2015-06-12	44.0367401383333	44
## 2015-06-16	44.0498289396	44.599998
## 2015-06-24	44.7882234547666	44.880001
## 2015-06-26	43.9099725036	42.470001
## 2015-07-01	42.0233834887	38.18
## 2015-07-09	33.9732830455	34.73
## 2015-07-13	35.6695994472334	35.990002
## 2015-07-14	35.6788821704334	35
## 2015-07-20	34.3340242097334	35.57
## 2015-07-24	33.6885581813667	33.73
## 2015-07-28	33.1277435374667	25.059999
## 2015-08-03	25.8823466009666	26.18
## 2015-08-05	25.0205927633667	25.379999

##	2015-08-19	24.7791323795	24.01
##	2015-08-20	23.1119829948334	23.09
##	2015-08-21	22.5882820487667	22.98
##	2015-08-24	22.5869562741	22.75
##	2015-08-26	23.8129386720334	23.98
##	2015-08-28	23.8451582437667	24.280001
##	2015-09-01	23.9126613274	24.280001
##	2015-09-02	24.0180529922999	24.17
##	2015-09-03	24.1631619231334	24.209999
##	2015-09-17	24.5043477120334	24.75
##	2015-09-18	24.3702057400667	24.23
##	2015-09-21	23.6663481987667	23.35
##	2015-09-24	21.9236992070667	22.17
##	2015-10-09	24.7369388618666	22.74
##	2015-10-14	22.0475116643	22.610001
##	2015-10-15	22.8785816314	22.65
##	2015-10-22	22.909979311	22.559999
##	2015-10-23	23.0902839517334	24.43
##	2015-10-29	22.4636700384333	22.25
##	2015-11-02	24.3289104645	24.120001
##	2015-11-05	25.3602021546334	25.5
##	2015-11-09	25.3134455791333	25.16
##	2015-11-10	24.9512939738333	24.98
##	2015-11-11	25.0980219913666	25.9
##	2015-11-12	26.2406638013	27.1
##	2015-11-13	26.8559441097667	27.440001
##	2015-11-16	27.8878713310999	27.540001
##	2015-11-18	28.4327939400333	28.059999
##	2015-11-19	28.0125943829	31.209999
##	2015-11-23	30.6583609059334	30.01
##	2015-11-25	29.8072667302333	30.18
##	2015-12-02	30.7545133310333	30.629999
##	2015-12-09	30.4073031887667	30.83
##	2015-12-11	29.1718018161667	29.58
##	2015-12-18	26.9487989549667	26.25
##	2015-12-21	26.8729267851333	27.93
##	2015-12-23	28.6231009347333	28.4
##	2016-01-04	26.7918211273334	26.620001
##	2016-01-05	26.2824592019334	25.91
##	2016-01-19	21.1402115496	21.139999
##	2016-01-20	20.6808137274	20.98
##	2016-01-26	21.984939198	21.59
##	2016-01-28	21.5405266259667	20.950001
##	2016-02-09	15.9692424345	15.36
##	2016-02-10	16.014248092	15.23
##	2016-02-17	18.6443882703667	17.639999
##	2016-02-24	19.4507355625333	19
##	2016-02-25	19.3791736544	19.860001
##	2016-03-01	21.3161512297334	21.200001
##	2016-03-03	21.6464346463667	21.620001

##	2016-03-10	20.6986414883666	20.629999
##	2016-03-14	20.7568688705667	19.92
##	2016-03-18	20.6401687385	20.5
##	2016-03-21	20.2334393339334	20.309999
##	2016-03-22	20.1271979543667	19.299999
##	2016-03-23	19.5424447485667	19.540001
##	2016-03-24	19.4049948872	18.969999
##	2016-04-04	19.6280281349667	19.42
##	2016-04-06	19.9067470810667	19.59
##	2016-04-08	19.9154482691333	19.49
##	2016-04-11	19.9049940838	19.68
##	2016-04-13	20.8359977853667	20.639999
##	2016-04-19	21.2808806289333	21.15
##	2016-04-21	21.7422317128333	21.52
##	2016-04-25	21.2503647058666	21.15
##	2016-04-27	20.7253463933	21.01
##	2016-05-05	21.9433794620334	26.5
##	2016-05-09	25.9705936030333	26.32
##	2016-05-12	25.4995627178	25.32
##	2016-05-13	24.9756229071	25.18
##	2016-05-17	25.1810870050666	24.98
##	2016-05-20	24.9485085394333	24.9
##	2016-05-23	25.1364304592333	25.379999
##	2016-05-25	25.4636441261	25.66
##	2016-05-31	25.8343078133667	26.190001
##	2016-06-02	26.7289851629667	26.610001
##	2016-06-03	26.7717695753333	27.18
##	2016-06-15	26.4242342763333	26.77
##	2016-06-16	27.0304823259666	26.92
##	2016-06-17	27.1115135325333	28.440001
##	2016-06-21	28.4475624959334	28.299999
##	2016-06-22	28.6695100498	29.73
##	2016-06-28	27.6203916014	29.200001
##	2016-07-05	29.8112475064	29.5
##	2016-07-06	29.9386963270333	30.040001
##	2016-07-26	30.0138645737	30.290001
##	2016-08-12	38.1514961105	37.369999
##	2016-08-18	38.4243132802667	38.560001
##	2016-08-19	38.1093756350667	37.849998
##	2016-08-24	37.1553718573	37.25
##	2016-09-08	37.6135630080334	37.389999
##	2016-09-09	37.3492787033333	37.93
##	2016-09-12	38.2023222536001	36.900002
##	2016-09-14	38.0342367525	38.139999
##	2016-09-15	37.8717529456333	37.950001
##	2016-09-20	37.0390504310333	38.52
##	2016-09-21	38.2725980859	38.459999
##	2016-09-22	38.5383924156	39.380001
##	2016-10-03	42.6821035284999	42.099998
##	2016-10-04	42.5243058813333	42.16

## 2016-10-07	40.9967441878333	41.110001
## 2016-10-11	38.9314942257334	38.82
## 2016-10-12	38.5427687732	37.509998
## 2016-10-13	37.3204801319	36.5
## 2016-10-17	36.5233526623	35.799999
## 2016-10-18	35.3831258819	35.080002
## 2016-10-19	34.2550200771334	34.349998
## 2016-10-21	33.4355452638001	34.48
## 2016-10-24	33.8436350215666	33.950001
## 2016-10-25	33.3267529885	33.490002
## 2016-10-26	33.0090786200333	32.740002
## 2016-11-01	32.8223369827	35.709999
## 2016-11-03	35.7251455012667	36.139999
## 2016-11-04	36.4080504382	37.209999
## 2016-11-11	36.0391697683334	35.720001
## 2016-11-14	35.9671769851667	36.619999
## 2016-11-17	38.1104062160667	38.290001
## 2016-11-22	38.6228110897	38.990002
## 2016-11-25	39.1153743766333	38.060001
## 2016-12-01	36.2240363766333	36.150002
## 2016-12-06	35.8741349383667	36.110001
## 2016-12-12	35.0926681735	35.91
## 2016-12-15	35.7832444017	35.830002
## 2016-12-16	35.6425103281	35.610001
## 2016-12-22	39.2799594136667	38
## 2017-01-09	40.4602259748	40.400002
## 2017-01-20	41.4324910638667	41.529999
## 2017-01-30	42.2050766755667	41.779999
## 2017-02-02	41.9038982561	42.32
## 2017-02-08	41.7544914067333	41.490002
## 2017-02-09	41.4573278012333	35.830002
## 2017-02-22	33.8705061330334	33.470001
## 2017-02-27	33.9965704505	33.700001
## 2017-03-08	34.2742033468	34.380001
## 2017-03-13	34.7306263264667	33.77
## 2017-03-23	32.3594981685333	32.48
## 2017-03-27	32.1241395794333	31.809999
## 2017-03-31	32.706502335	32.630001
## 2017-04-06	33.4433394123333	33.23
## 2017-04-07	32.8432960693667	32.740002
## 2017-04-10	33.047993013	33.369999
## 2017-04-11	32.8914177013334	32.16
## 2017-04-12	31.8016471853333	32.029999
## 2017-04-20	33.6936273333333	33.490002
## 2017-04-21	33.8469843486	33.889999
## 2017-04-26	34.7215906151	36.009998
## 2017-05-01	35.8960957550333	35.98
## 2017-05-02	35.7302863334	35.200001
## 2017-05-03	35.2902984423333	35.299999
## 2017-05-04	35.6492687879	35.68

## 2017-05-08	35.6438130812	34.700001
## 2017-05-22	28.0304879694333	27.780001
## 2017-05-24	27.7877535249667	28.07
## 2017-06-06	29.5704643650333	30.209999
## 2017-06-12	29.7665212178333	30.719999
## 2017-06-16	30.7348328096667	30.280001
## 2017-06-19	30.0871974354	29.440001
## 2017-06-29	30.1054529305333	30.02
## 2017-07-10	30.3899195192667	31.110001
## 2017-07-19	31.8290700288667	32.400002
## 2017-07-24	32.3836566608333	32
## 2017-07-26	33.0482213518667	32.759998
## 2017-07-28	33.1042488895333	32.529999
## 2017-08-02	31.6710965455	31.370001
## 2017-08-03	31.7454349386	40.049999
## 2017-08-08	41.2537903549667	41.549999
## 2017-08-11	42.1638968350666	42.529999
## 2017-08-23	41.9118787299334	41.75
## 2017-08-24	42.4163460176667	42.139999
## 2017-08-28	42.6095595983333	42.32
## 2017-08-30	42.6738821443667	42.599998
## 2017-09-06	43.4216693440333	43.740002
## 2017-09-07	44.3254763417333	43.75
## 2017-09-11	43.984417793	43.849998
## 2017-09-12	43.4349105629333	42.950001
## 2017-09-13	42.7985057822333	42.91
## 2017-09-18	43.6992640494	43.849998
## 2017-09-20	43.6427795983	43.610001
## 2017-09-28	43.0884552031666	43.299999
## 2017-09-29	43.8231679308667	44.09
## 2017-10-04	46.6173823131333	46.389999
## 2017-10-06	46.0560712852667	45.630001
## 2017-10-13	43.2262809260333	43.52
## 2017-10-16	43.0816176424333	43.200001
## 2017-10-20	44.3843392832333	43.599998
## 2017-10-23	44.0161719259	43.68
## 2017-10-24	44.4231753907333	44.02
## 2017-11-01	45.4640341523999	45.98
## 2017-11-02	46.1673044308	46.07
## 2017-11-03	45.7854566553666	45.650002
## 2017-11-10	46.1626605734333	45.900002
## 2017-11-13	45.8880630378667	45.91
## 2017-11-17	47.0179804364333	47.18
## 2017-11-27	47.9266441972333	47.439999
## 2017-12-06	41.8907206406333	40.790001
## 2017-12-14	42.8151442636666	42.43
## 2017-12-15	42.7461995556667	43.810001
## 2017-12-22	42.6438316837666	42.119999
## 2018-01-05	43.5407034658667	43.669998
## 2018-01-18	42.8167008075999	42.849998

## 2018-01-29	44.2327186624333	43.529999
## 2018-02-09	39.3399711700333	38.970001
## 2018-02-13	39.3896095277333	41.369999
## 2018-02-14	42.0635294677333	41.970001
## 2018-02-15	41.4461296332666	41.73
## 2018-02-23	43.2806616587333	43.830002
## 2018-02-27	43.2106511446	43.560001
## 2018-03-06	45.0483448459	45.68
## 2018-03-07	45.4995781416666	45.57
## 2018-03-08	46.4479525034999	46.619999
## 2018-03-09	46.7953825983	46.810001
## 2018-03-13	45.8607668761333	46.439999
## 2018-03-19	44.9346544822667	45.07
## 2018-03-28	42.5121654965333	41.75
## 2018-04-04	42.7583831406	42.330002
## 2018-04-11	44.5687436494667	44
## 2018-04-18	44.1303750879	44.650002
## 2018-04-23	43.9499105653	43.889999
## 2018-05-01	44.6980284445333	45.380001
## 2018-05-03	45.1665207322666	45.610001
## 2018-05-08	47.7147116944	47.919998
## 2018-05-15	43.7121456008666	44.029999
## 2018-05-18	46.8224380163666	46.450001
## 2018-05-24	43.0969455864667	42.59
## 2018-06-06	42.3575345983667	41.349998
## 2018-06-08	41.4282493332333	41.869999
## 2018-06-11	42.6780664160666	42.639999
## 2018-06-13	41.6597569755667	41.16
## 2018-06-14	41.0756023633667	40.93
## 2018-06-27	38.9194443278	39.119999
## 2018-06-28	39.7309657013333	39.18
## 2018-07-02	39.7395081555	39.299999
## 2018-07-06	40.6008053172334	40
## 2018-07-13	40.3994291523334	40.299999
## 2018-07-16	40.7761509518334	40.75
## 2018-07-18	40.2593876041	39.689999
## 2018-07-20	38.8351611649	38.639999
## 2018-07-24	39.0323091422333	38.990002
## 2018-07-25	38.8200710539	40.18
## 2018-07-27	38.1333702461	37.27
## 2018-08-03	38.1840204450667	38.75
## 2018-08-15	46.2143089855333	46.349998
## 2018-08-17	44.7856065894333	44.740002
## 2018-08-27	46.8061030620333	46.740002
## 2018-08-29	46.9253743193333	46.82
## 2018-09-07	45.2776713211	45.25
## 2018-09-11	45.7708692953666	45.720001
## 2018-09-12	46.6732847032	45.939999
## 2018-09-14	46.2531594792666	46.279999
## 2018-09-17	46.2684795933333	49.970001

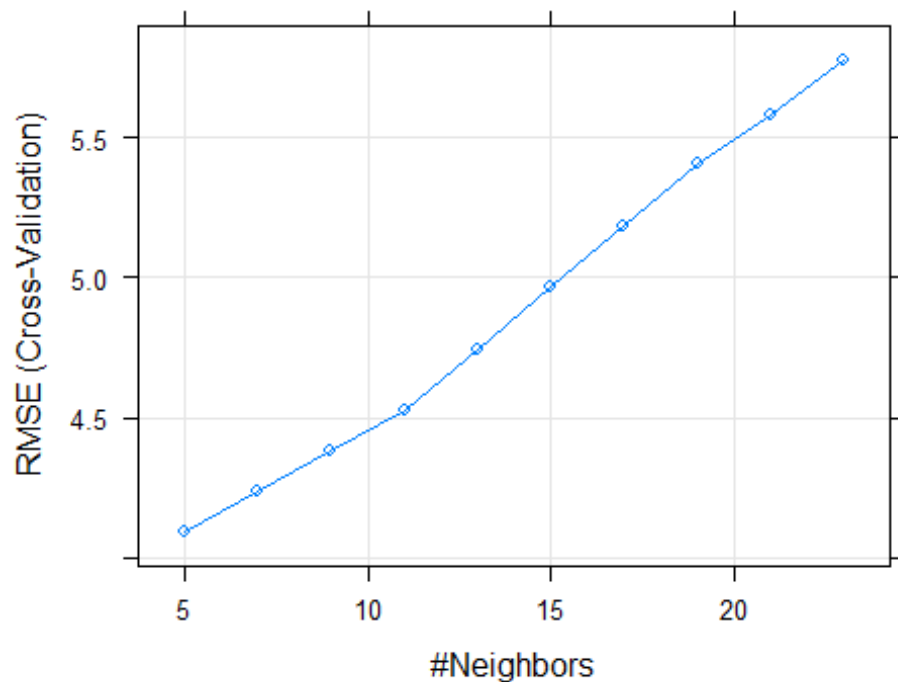
## 2018-10-08	44.7148083305667	44.630001
## 2018-10-12	43.2197146707	42.959999
## 2018-10-16	43.2267407343	43.93
## 2018-10-19	43.0584700147	42.990002
## 2018-11-01	43.4053022162667	43.099998
## 2018-11-08	43.1467147816333	31.93
## 2018-11-12	33.5188566511667	33.669998
## 2018-11-27	31.8606958323334	32.439999
## 2018-12-06	34.6911610665667	34.59
## 2018-12-07	34.8423074393	35.639999
## 2018-12-20	32.9450577369	32.099998
## 2018-12-24	32.8517891242667	34.139999
## 2018-12-26	34.1271275838333	34.950001
## 2018-12-31	34.6410875924	34.57
## 2019-01-04	34.7099007493	34.830002
## 2019-01-07	35.0039183698667	35.509998
## 2019-01-09	35.5395749920667	34.310001
## 2019-01-22	35.7123035104	35.470001
## 2019-01-28	36.5453075548667	36.220001
## 2019-02-06	36.8222760542334	36.25
## 2019-02-12	38.5996133954333	38.459999
## 2019-02-13	39.5325470510667	38.189999
## 2019-02-14	39.1435457192	39.939999
## 2019-02-21	38.4517349431	38.540001
## 2019-02-25	37.8764645422	37.900002
## 2019-02-28	36.8922532919667	37.130001
## 2019-03-01	36.6820683442667	36.740002
## 2019-03-07	33.7035373262334	34.740002
## 2019-03-12	33.7075281602	34.549999
## 2019-03-14	35.046143936	35.099998
## 2019-03-15	34.6748067784667	34.880001
## 2019-03-19	33.6832911792667	34.599998
## 2019-03-20	34.4260310592	34.889999
## 2019-03-21	34.5550579211667	34.360001
## 2019-03-22	34.7887182449666	34.709999
## 2019-03-27	34.9131786994	34.68
## 2019-03-28	34.5500433621	34.5
## 2019-03-29	34.8379426351667	35.029999
## 2019-04-01	35.3690906692667	35.360001
## 2019-04-10	35.5951285365	35.720001
## 2019-04-12	34.7022877006667	35.419998
## 2019-04-22	37.3173001746667	38.119999
## 2019-04-24	38.8628699139333	39.509998
## 2019-04-25	39.1744685882333	39.52
## 2019-04-26	40.3680247621667	40.060001
## 2019-05-01	41.0318609442	40.189999
## 2019-05-22	31.5745546807666	31.629999
## 2019-05-24	31.9832824192	31.459999
## 2019-05-29	31.0782489854667	31.23
## 2019-06-07	31.7694725817666	31.950001

##	2019-06-19	33.0247666014333	33.139999
##	2019-06-26	33.5823705827	33.950001
##	2019-06-27	34.3301201067667	34.18
##	2019-07-05	35.2819675846667	34.990002
##	2019-07-15	35.8974968747667	35.619999
##	2019-07-18	33.6901845211667	34.080002
##	2019-07-19	33.7039645195667	33.869999
##	2019-07-29	35.7399277024	35.549999
##	2019-07-30	35.3584035289667	35.049999
##	2019-07-31	34.3216057324667	34.93
##	2019-08-02	35.1032021761334	33.529999
##	2019-08-12	34.4349330378667	34.619999
##	2019-08-15	33.3900635439667	33.169998
##	2019-08-16	33.2184708256	32.919998
##	2019-08-23	32.3893620430334	32.029999
##	2019-08-30	33.1559627360334	33.209999
##	2019-09-03	32.7191237520334	32.84
##	2019-09-06	33.0777746438667	33.23
##	2019-09-10	34.0671280925	34.599998
##	2019-09-11	34.7403870230667	36.52
##	2019-09-12	36.5201211706333	37.439999
##	2019-09-24	34.4847866588666	34.959999
##	2019-10-07	32.8815217617667	32.75
##	2019-10-09	31.4892842014666	32.220001
##	2019-10-22	33.6139905427	33.529999
##	2019-10-23	32.9582594777333	33.509998
##	2019-10-30	34.4354641278333	34.509998
##	2019-11-01	34.6537170438667	34.240002
##	2019-11-05	32.9043422203	32.709999
##	2019-11-18	34.2441862604	34.349998
##	2019-11-21	34.2718121132	35.259998
##	2019-11-27	35.0509203790667	34.68
##	2019-12-02	33.8256945482	33.66
##	2019-12-11	32.9069079697	33.389999
##	2019-12-12	33.6417353716667	33.549999
##	2019-12-13	33.7639467200333	33.779999
##	2019-12-16	34.1272843226334	34
##	2019-12-20	34.0754916047333	34.209999
##	2019-12-23	34.3518455460333	34.060001
##	2019-12-26	34.7960519294667	34.849998
##	2019-12-31	34.1178770807667	34.77
##	2020-01-10	35.5319101971333	36.23
##	2020-01-29	34.6783671981667	34.77
##	2020-02-04	34.1530748402667	34.66
##	2020-02-07	34.3244970365666	34.200001
##	2020-02-11	34.9717566107	35.360001
##	2020-02-13	35.9938440144666	35.23
##	2020-02-19	34.0441333275667	34.639999
##	2020-02-20	34.0027201361333	34
##	2020-02-27	31.4351719537	31.27


```
## 2020-03-02 31.4662001675333      30.59
## 2020-03-04 30.7750547568333      29.139999
## 2020-03-09 27.3877826918      27.809999
## results      0      100

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

plot(knnMod)
```



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

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

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

predGLM <- predict(glmMod, testingSet)

length=length(testingSet$NextDayPrice)

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

sumGLM <- sum(predGLM==testingSet$NextDayPrice)
```

```

accuracy_KNN <- sumKNN/length
accuracy_RPART <- sumRPart/length

accuracy_GLM <- sumGLM/length

predDF2 <- data.frame(predRF,predKNN,predRPART,predGLM,
                      TYPE=testingSet$NextDayPrice)
colnames(predDF2) <- c('RandomForest','KNN','Rpart','GLM','TrueValue')

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','TrueValue')
Results <- rbind(predDF2, results)
Results

##           RandomForest           KNN           Rpart           GLM
## 2012-03-16 21.8527515231 23.6080002 20.9650825454545 21.7814565517811
## 2012-03-21 23.4433496296334      23.334 20.9650825454545 23.7786820694221
## 2012-03-23 23.5171571670001      30.818 20.9650825454545 24.4637223628292
## 2012-03-27 26.7315608579667 31.8979998 27.9981278173516 28.460641384726
## 2012-03-29 27.3648435893667 31.0059998 27.9981278173516 27.2643439441957
## 2012-04-02 26.9627240613667 27.9959992 27.9981278173516 25.939775591441
## 2012-04-12 26.5081473320333 28.3899998 27.9981278173516 26.9660616579355
## 2012-04-13 25.4969236192 30.8579998 27.9981278173516 25.8904877948612
## 2012-04-19 23.6269034890667 30.0299994 20.9650825454545 23.8634765600345
## 2012-04-24 20.5944217580667 22.6640004 20.9650825454545 20.8380706947259
## 2012-04-25 21.2889651799667      30.874 20.9650825454545 22.140347491964
## 2012-04-26 21.3916120998333      23.208 20.9650825454545 22.1386636235722
## 2012-05-04 21.3352766541238 22.1039996 20.9650825454545 21.9681765141924
## 2012-05-11 20.1766577361667 21.8099996 20.9650825454545 19.6286239164327
## 2012-05-22 19.6138927228333 22.9079998 20.9650825454545 19.4019427198856
## 2012-05-29 16.6515347609333 20.4500002 20.9650825454545 16.3579786851369
## 2012-06-20 20.0854815850334 21.2300008 20.9650825454545 20.2134185778226
## 2012-06-25 22.9155171123334 30.1120002 20.9650825454545 22.9454471998828
## 2012-06-26 22.7613093761001 26.5280004 20.9650825454545 23.0822933265096
## 2012-07-03 25.4344445799667      29.996 27.9981278173516 25.710234956902
## 2012-07-09 24.6087567422334 23.2060006 27.9981278173516 23.912832611038
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##	2015-05-01	39.1827986005334	43.7159988	42.6434158168317	38.3814728943381
##	2015-05-05	38.4112953912	37.336	35.1029891793478	38.0921016862077
##	2015-05-06	39.3201827098333	41.0920002	35.1029891793478	38.7090246511621
##	2015-05-07	46.5704773021	35.2759998	47.1672581370968	47.1552852262322
##	2015-05-08	48.6892760019	44.0180002	47.1672581370968	49.4561799141067
##	2015-05-13	47.1256631690667	42.4259994	47.1672581370968	47.0923134543408
##	2015-05-18	45.7512653332	41.9640002	47.1672581370968	45.9201428883039
##	2015-05-26	45.0927202392	42.5640008	47.1672581370968	44.833270890334
##	2015-05-28	47.7592878351857	47.4439992	47.1672581370968	48.3075099902653
##	2015-06-11	43.7267112617	42.2839998	42.6434158168317	43.5992167606478
##	2015-06-12	44.0367401383333	42.9720002	42.6434158168317	43.2731024551194
##	2015-06-16	44.0498289396	43.235999	42.6434158168317	44.0878425907165
##	2015-06-24	44.7882234547666	42.6200004	47.1672581370968	44.1667058060632
##	2015-06-26	43.9099725036	43.5040002	42.6434158168317	43.4186011076468
##	2015-07-01	42.0233834887	40.4699996	42.6434158168317	41.6839992873242
##	2015-07-09	33.9732830455	37.5440002	35.1029891793478	34.1744499561205
##	2015-07-13	35.6695994472334	33.7000008	35.1029891793478	36.1541092185688
##	2015-07-14	35.6788821704334	33.12	35.1029891793478	35.9181268713228
##	2015-07-20	34.3340242097334	33.8320002	35.1029891793478	34.7777306083915
##	2015-07-24	33.6885581813667	32.3460004	35.1029891793478	33.5140355322215
##	2015-07-28	33.1277435374667	32.5899998	35.1029891793478	32.6234344153884
##	2015-08-03	25.8823466009666	27.8339996	27.9981278173516	26.740608326181
##	2015-08-05	25.0205927633667	26.8060002	27.9981278173516	25.1606484359704
##	2015-08-19	24.7791323795	29.1739998	27.9981278173516	24.3968959467836
##	2015-08-20	23.1119829948334	28.5039996	20.9650825454545	23.3628056867176
##	2015-08-21	22.5882820487667	24.99	20.9650825454545	22.297739423595
##	2015-08-24	22.5869562741	26.9580004	20.9650825454545	22.2837372108744
##	2015-08-26	23.8129386720334	24.686	20.9650825454545	24.019928311668
##	2015-08-28	23.8451582437667	26.97	20.9650825454545	24.6322329821251
##	2015-09-01	23.9126613274	25.3399998	20.9650825454545	24.2862047318831
##	2015-09-02	24.0180529922999	25.5459998	20.9650825454545	23.5731949933127
##	2015-09-03	24.1631619231334	26.8359996	20.9650825454545	24.9766121655426
##	2015-09-17	24.5043477120334	27.197999	27.9981278173516	24.8244319279284
##	2015-09-18	24.3702057400667	21.7939996	27.9981278173516	24.3255696467179
##	2015-09-21	23.6663481987667	22.1059996	20.9650825454545	23.9472290790692
##	2015-09-24	21.9236992070667	27.197999	20.9650825454545	22.3001921024828
##	2015-10-09	24.7369388618666	24.5720002	27.9981278173516	24.1377772424591
##	2015-10-14	22.0475116643	26.118	20.9650825454545	22.5151048678742
##	2015-10-15	22.8785816314	22.8540002	20.9650825454545	23.4026202099423
##	2015-10-22	22.909979311	23.208	20.9650825454545	23.4503933748724
##	2015-10-23	23.0902839517334	24.7340002	20.9650825454545	23.3629918363181
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##	2015-11-05	25.3602021546334	26.456	27.9981278173516	25.9483309787509
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##	2015-11-23	30.6583609059334	32.3960002	27.9981278173516	31.2085294693053
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##	2016-01-04	26.7918211273334	25.6139998	27.9981278173516	27.625203624827
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##	2016-01-19	21.1402115496	25.55	20.9650825454545	21.8144342130216
##	2016-01-20	20.6808137274	22.286	20.9650825454545	20.4722971710895
##	2016-01-26	21.984939198	26.7459994	20.9650825454545	20.8443616676067
##	2016-01-28	21.5405266259667	23.7319994	20.9650825454545	21.5703765524371
##	2016-02-09	15.9692424345	21.0140004	20.9650825454545	14.9432153453414
##	2016-02-10	16.014248092	19.8380004	20.9650825454545	14.4244165672082
##	2016-02-17	18.6443882703667	22.1119996	20.9650825454545	17.6245329072646
##	2016-02-24	19.4507355625333	23.7239996	20.9650825454545	19.3291838338967
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##	2016-03-01	21.3161512297334	25.5080008	20.9650825454545	21.5735616834004
##	2016-03-03	21.6464346463667	23.5779998	20.9650825454545	21.6760912542383
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##	2016-03-18	20.6401687385	21.406	20.9650825454545	19.7529541823785
##	2016-03-21	20.2334393339334	22.0180004	20.9650825454545	19.625767445453
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##	2016-04-04	19.6280281349667	22.4819998	20.9650825454545	19.1103433426851
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##	2016-08-12	38.1514961105	33.7159996	35.1029891793478	38.3554524743579
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##	2016-10-03	42.6821035284999	42.5799996	42.6434158168317	42.755713590091
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##	2016-10-18	35.3831258819	35.5919998	35.1029891793478	34.9440118518344
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##	2016-10-21	33.4355452638001	36.33	35.1029891793478	33.3647890811987
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##	2016-10-26	33.0090786200333	32.8779998	35.1029891793478	32.4294751108957
##	2016-11-01	32.8223369827	34.3779998	35.1029891793478	33.2980546495325
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##	2016-12-16	35.6425103281	35.0260002	35.1029891793478	35.5973113978172
##	2016-12-22	39.2799594136667	36.5959998	35.1029891793478	37.471566691477
##	2017-01-09	40.4602259748	41.228	42.6434158168317	40.9498836184842
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##	2017-02-22	33.8705061330334	36.4679998	35.1029891793478	33.3491935987387
##	2017-02-27	33.9965704505	34.0819996	35.1029891793478	33.4753005979829
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##	2017-03-23	32.3594981685333	35.2739996	35.1029891793478	32.0702527713327
##	2017-03-27	32.1241395794333	36.282	35.1029891793478	31.6925123887608
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2014-02-18 90
2014-02-25 95.449997
2014-02-26 97.389999
2014-02-27 94.419998
2014-03-06 97.25
2014-03-12 87.370003
2014-03-17 90.110001
2014-03-20 83.43
2014-03-27 76.440002
2014-03-31 80.18
2014-04-01 75.629997
2014-04-02 70.610001
2014-04-04 66
2014-04-11 61.939999
2014-04-30 64.019997
2014-05-02 60.189999
2014-05-07 53.290001
2014-05-12 55.529999
2014-05-19 57.380001
2014-05-22 61.540001
2014-05-27 63.419998
2014-05-28 68.559998
2014-05-29 66.150002
2014-06-02 64.669998
2014-06-03 64.580002
2014-06-04 65
2014-06-11 65.839996
2014-06-17 77.010002
2014-06-23 75.830002
2014-06-27 76.68
2014-06-30 77.629997
2014-07-09 70.910004
2014-07-11 71.110001
2014-07-14 69.019997
2014-07-16 66.529999
2014-07-17 68.349998
2014-07-23 69.769997
2014-07-28 69.480003
2014-08-01 68.57
2014-08-07 68

2014-08-13 74.900002
2014-08-21 81.599998
2014-08-22 82.599998
2014-08-25 82.389999
2014-08-26 82.860001
2014-09-02 83.290001
2014-09-03 81.910004
2014-09-05 82.43
2014-09-11 81.779999
2014-09-17 76.07
2014-09-26 69.540001
2014-09-29 68.25
2014-09-30 67.110001
2014-10-01 69.07
2014-10-02 69.440002
2014-10-08 69.620003
2014-10-10 62.119999
2014-10-24 57.209999
2014-10-27 59.110001
2014-10-31 61.32
2014-11-05 58.779999
2014-11-14 58
2014-11-17 57.459999
2014-11-26 57.09
2014-12-16 51.900002
2014-12-17 52.490002
2014-12-24 52.939999
2014-12-29 54.240002
2015-01-02 52.529999
2015-01-06 52.209999
2015-01-07 53.830002
2015-01-09 54.02
2015-01-12 53.18
2015-01-14 50.119999
2015-01-15 51.389999
2015-01-22 55.189999
2015-01-28 52.93
2015-02-04 57.470001
2015-02-06 42.169998
2015-02-12 47.529999
2015-02-19 47.790001
2015-02-27 47.860001
2015-03-02 48.580002
2015-03-03 47.790001
2015-03-05 47.049999
2015-03-10 45.73
2015-03-13 46.709999
2015-03-16 47.220001
2015-03-18 45.18
2015-03-19 44.939999

2015-03-23 47.040001
2015-03-25 45.709999
2015-03-30 47.349998
2015-04-01 47.139999
2015-04-06 46.990002
2015-04-17 48.25
2015-05-01 39.610001
2015-05-05 38.220001
2015-05-06 47.009998
2015-05-07 49.93
2015-05-08 48.619999
2015-05-13 47.349998
2015-05-18 46.459999
2015-05-26 45.52
2015-05-28 47.91
2015-06-11 44.040001
2015-06-12 44
2015-06-16 44.599998
2015-06-24 44.880001
2015-06-26 42.470001
2015-07-01 38.18
2015-07-09 34.73
2015-07-13 35.990002
2015-07-14 35
2015-07-20 35.57
2015-07-24 33.73
2015-07-28 25.059999
2015-08-03 26.18
2015-08-05 25.379999
2015-08-19 24.01
2015-08-20 23.09
2015-08-21 22.98
2015-08-24 22.75
2015-08-26 23.98
2015-08-28 24.280001
2015-09-01 24.280001
2015-09-02 24.17
2015-09-03 24.209999
2015-09-17 24.75
2015-09-18 24.23
2015-09-21 23.35
2015-09-24 22.17
2015-10-09 22.74
2015-10-14 22.610001
2015-10-15 22.65
2015-10-22 22.559999
2015-10-23 24.43
2015-10-29 22.25
2015-11-02 24.120001
2015-11-05 25.5

##	2015-11-09	25.16
##	2015-11-10	24.98
##	2015-11-11	25.9
##	2015-11-12	27.1
##	2015-11-13	27.440001
##	2015-11-16	27.540001
##	2015-11-18	28.059999
##	2015-11-19	31.209999
##	2015-11-23	30.01
##	2015-11-25	30.18
##	2015-12-02	30.629999
##	2015-12-09	30.83
##	2015-12-11	29.58
##	2015-12-18	26.25
##	2015-12-21	27.93
##	2015-12-23	28.4
##	2016-01-04	26.620001
##	2016-01-05	25.91
##	2016-01-19	21.139999
##	2016-01-20	20.98
##	2016-01-26	21.59
##	2016-01-28	20.950001
##	2016-02-09	15.36
##	2016-02-10	15.23
##	2016-02-17	17.639999
##	2016-02-24	19
##	2016-02-25	19.860001
##	2016-03-01	21.200001
##	2016-03-03	21.620001
##	2016-03-10	20.629999
##	2016-03-14	19.92
##	2016-03-18	20.5
##	2016-03-21	20.309999
##	2016-03-22	19.299999
##	2016-03-23	19.540001
##	2016-03-24	18.969999
##	2016-04-04	19.42
##	2016-04-06	19.59
##	2016-04-08	19.49
##	2016-04-11	19.68
##	2016-04-13	20.639999
##	2016-04-19	21.15
##	2016-04-21	21.52
##	2016-04-25	21.15
##	2016-04-27	21.01
##	2016-05-05	26.5
##	2016-05-09	26.32
##	2016-05-12	25.32
##	2016-05-13	25.18
##	2016-05-17	24.98

##	2016-05-20	24.9
##	2016-05-23	25.379999
##	2016-05-25	25.66
##	2016-05-31	26.190001
##	2016-06-02	26.610001
##	2016-06-03	27.18
##	2016-06-15	26.77
##	2016-06-16	26.92
##	2016-06-17	28.440001
##	2016-06-21	28.299999
##	2016-06-22	29.73
##	2016-06-28	29.200001
##	2016-07-05	29.5
##	2016-07-06	30.040001
##	2016-07-26	30.290001
##	2016-08-12	37.369999
##	2016-08-18	38.560001
##	2016-08-19	37.849998
##	2016-08-24	37.25
##	2016-09-08	37.389999
##	2016-09-09	37.93
##	2016-09-12	36.900002
##	2016-09-14	38.139999
##	2016-09-15	37.950001
##	2016-09-20	38.52
##	2016-09-21	38.459999
##	2016-09-22	39.380001
##	2016-10-03	42.099998
##	2016-10-04	42.16
##	2016-10-07	41.110001
##	2016-10-11	38.82
##	2016-10-12	37.509998
##	2016-10-13	36.5
##	2016-10-17	35.799999
##	2016-10-18	35.080002
##	2016-10-19	34.349998
##	2016-10-21	34.48
##	2016-10-24	33.950001
##	2016-10-25	33.490002
##	2016-10-26	32.740002
##	2016-11-01	35.709999
##	2016-11-03	36.139999
##	2016-11-04	37.209999
##	2016-11-11	35.720001
##	2016-11-14	36.619999
##	2016-11-17	38.290001
##	2016-11-22	38.990002
##	2016-11-25	38.060001
##	2016-12-01	36.150002
##	2016-12-06	36.110001

2016-12-12 35.91
2016-12-15 35.830002
2016-12-16 35.610001
2016-12-22 38
2017-01-09 40.400002
2017-01-20 41.529999
2017-01-30 41.779999
2017-02-02 42.32
2017-02-08 41.490002
2017-02-09 35.830002
2017-02-22 33.470001
2017-02-27 33.700001
2017-03-08 34.380001
2017-03-13 33.77
2017-03-23 32.48
2017-03-27 31.809999
2017-03-31 32.630001
2017-04-06 33.23
2017-04-07 32.740002
2017-04-10 33.369999
2017-04-11 32.16
2017-04-12 32.029999
2017-04-20 33.490002
2017-04-21 33.889999
2017-04-26 36.009998
2017-05-01 35.98
2017-05-02 35.200001
2017-05-03 35.299999
2017-05-04 35.68
2017-05-08 34.700001
2017-05-22 27.780001
2017-05-24 28.07
2017-06-06 30.209999
2017-06-12 30.719999
2017-06-16 30.280001
2017-06-19 29.440001
2017-06-29 30.02
2017-07-10 31.110001
2017-07-19 32.400002
2017-07-24 32
2017-07-26 32.759998
2017-07-28 32.529999
2017-08-02 31.370001
2017-08-03 40.049999
2017-08-08 41.549999
2017-08-11 42.529999
2017-08-23 41.75
2017-08-24 42.139999
2017-08-28 42.32
2017-08-30 42.599998

2017-09-06 43.740002
2017-09-07 43.75
2017-09-11 43.849998
2017-09-12 42.950001
2017-09-13 42.91
2017-09-18 43.849998
2017-09-20 43.610001
2017-09-28 43.299999
2017-09-29 44.09
2017-10-04 46.389999
2017-10-06 45.630001
2017-10-13 43.52
2017-10-16 43.200001
2017-10-20 43.599998
2017-10-23 43.68
2017-10-24 44.02
2017-11-01 45.98
2017-11-02 46.07
2017-11-03 45.650002
2017-11-10 45.900002
2017-11-13 45.91
2017-11-17 47.18
2017-11-27 47.439999
2017-12-06 40.790001
2017-12-14 42.43
2017-12-15 43.810001
2017-12-22 42.119999
2018-01-05 43.669998
2018-01-18 42.849998
2018-01-29 43.529999
2018-02-09 38.970001
2018-02-13 41.369999
2018-02-14 41.970001
2018-02-15 41.73
2018-02-23 43.830002
2018-02-27 43.560001
2018-03-06 45.68
2018-03-07 45.57
2018-03-08 46.619999
2018-03-09 46.810001
2018-03-13 46.439999
2018-03-19 45.07
2018-03-28 41.75
2018-04-04 42.330002
2018-04-11 44
2018-04-18 44.650002
2018-04-23 43.889999
2018-05-01 45.380001
2018-05-03 45.610001
2018-05-08 47.919998

2018-05-15 44.029999
2018-05-18 46.450001
2018-05-24 42.59
2018-06-06 41.349998
2018-06-08 41.869999
2018-06-11 42.639999
2018-06-13 41.16
2018-06-14 40.93
2018-06-27 39.119999
2018-06-28 39.18
2018-07-02 39.299999
2018-07-06 40
2018-07-13 40.299999
2018-07-16 40.75
2018-07-18 39.689999
2018-07-20 38.639999
2018-07-24 38.990002
2018-07-25 40.18
2018-07-27 37.27
2018-08-03 38.75
2018-08-15 46.349998
2018-08-17 44.740002
2018-08-27 46.740002
2018-08-29 46.82
2018-09-07 45.25
2018-09-11 45.720001
2018-09-12 45.939999
2018-09-14 46.279999
2018-09-17 49.970001
2018-10-08 44.630001
2018-10-12 42.959999
2018-10-16 43.93
2018-10-19 42.990002
2018-11-01 43.099998
2018-11-08 31.93
2018-11-12 33.669998
2018-11-27 32.439999
2018-12-06 34.59
2018-12-07 35.639999
2018-12-20 32.099998
2018-12-24 34.139999
2018-12-26 34.950001
2018-12-31 34.57
2019-01-04 34.830002
2019-01-07 35.509998
2019-01-09 34.310001
2019-01-22 35.470001
2019-01-28 36.220001
2019-02-06 36.25
2019-02-12 38.459999

2019-02-13 38.189999
2019-02-14 39.939999
2019-02-21 38.540001
2019-02-25 37.900002
2019-02-28 37.130001
2019-03-01 36.740002
2019-03-07 34.740002
2019-03-12 34.549999
2019-03-14 35.099998
2019-03-15 34.880001
2019-03-19 34.599998
2019-03-20 34.889999
2019-03-21 34.360001
2019-03-22 34.709999
2019-03-27 34.68
2019-03-28 34.5
2019-03-29 35.029999
2019-04-01 35.360001
2019-04-10 35.720001
2019-04-12 35.419998
2019-04-22 38.119999
2019-04-24 39.509998
2019-04-25 39.52
2019-04-26 40.060001
2019-05-01 40.189999
2019-05-22 31.629999
2019-05-24 31.459999
2019-05-29 31.23
2019-06-07 31.950001
2019-06-19 33.139999
2019-06-26 33.950001
2019-06-27 34.18
2019-07-05 34.990002
2019-07-15 35.619999
2019-07-18 34.080002
2019-07-19 33.869999
2019-07-29 35.549999
2019-07-30 35.049999
2019-07-31 34.93
2019-08-02 33.529999
2019-08-12 34.619999
2019-08-15 33.169998
2019-08-16 32.919998
2019-08-23 32.029999
2019-08-30 33.209999
2019-09-03 32.84
2019-09-06 33.23
2019-09-10 34.599998
2019-09-11 36.52
2019-09-12 37.439999

```
## 2019-09-24 34.959999
## 2019-10-07 32.75
## 2019-10-09 32.220001
## 2019-10-22 33.529999
## 2019-10-23 33.509998
## 2019-10-30 34.509998
## 2019-11-01 34.240002
## 2019-11-05 32.709999
## 2019-11-18 34.349998
## 2019-11-21 35.259998
## 2019-11-27 34.68
## 2019-12-02 33.66
## 2019-12-11 33.389999
## 2019-12-12 33.549999
## 2019-12-13 33.779999
## 2019-12-16 34
## 2019-12-20 34.209999
## 2019-12-23 34.060001
## 2019-12-26 34.849998
## 2019-12-31 34.77
## 2020-01-10 36.23
## 2020-01-29 34.77
## 2020-02-04 34.66
## 2020-02-07 34.200001
## 2020-02-11 35.360001
## 2020-02-13 35.23
## 2020-02-19 34.639999
## 2020-02-20 34
## 2020-02-27 31.27
## 2020-03-02 30.59
## 2020-03-04 29.139999
## 2020-03-09 27.809999
## results 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. Lets round the NextDayPrice column too, for better accuracy in the testing and training set only.

```
sYELP1 <- sYELP[,c(4,5,9,14,15,19,20,21,24,25)]
sYELP1$NextDayPrice <- lead(sYELP1$stockDayValue,1)
sYELP1 <- sYELP1[complete.cases(sYELP1$NextDayPrice),]
row.names(sYELP1) <- as.factor(sYELP1$Date)
sYELP1 <- sYELP1[, -c(1)]

set.seed(12356789)
```

```

inTrain <- createDataPartition(y=sYELP1$NextDayPrice, p=0.7, list=FALSE)

trainingSet <- sYELP1[inTrain,]
testingSet <- sYELP1[-inTrain,]

trainingSet$NextDayPrice <- round(trainingSet$NextDayPrice,0)
testingSet$NextDayPrice <- round(testingSet$NextDayPrice,0)

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

predRF_round <- predict(rfMod, testingSet)

predRF_round <- ifelse(predRF_round<0,0,round(predRF,0))

predDF_round <- data.frame(predRF_round,
NextDayPrice=testingSet$NextDayPrice)
predDF_round

```

##	predRF_round	NextDayPrice
## 2012-03-16	22	23
## 2012-03-21	23	23
## 2012-03-23	24	25
## 2012-03-27	27	28
## 2012-03-29	27	27
## 2012-04-02	27	27
## 2012-04-12	27	26
## 2012-04-13	25	26
## 2012-04-19	24	23
## 2012-04-24	21	21
## 2012-04-25	21	21
## 2012-04-26	21	22
## 2012-05-04	21	21
## 2012-05-11	20	20
## 2012-05-22	20	18
## 2012-05-29	17	17
## 2012-06-20	20	21
## 2012-06-25	23	22
## 2012-06-26	23	23
## 2012-07-03	25	26
## 2012-07-09	25	23
## 2012-07-11	22	22
## 2012-07-12	22	22
## 2012-07-18	23	24
## 2012-07-23	23	23
## 2012-08-03	24	25
## 2012-08-07	26	26
## 2012-08-08	26	26
## 2012-08-22	18	18
## 2012-09-12	25	24

## 2012-09-25	26	26
## 2012-09-28	27	28
## 2012-10-03	28	29
## 2012-10-05	27	28
## 2012-10-08	27	27
## 2012-10-09	27	26
## 2012-10-10	27	26
## 2012-10-11	25	25
## 2012-10-18	25	25
## 2012-10-22	24	24
## 2012-10-23	24	26
## 2012-10-25	23	23
## 2012-11-05	19	18
## 2012-11-07	19	18
## 2012-11-12	17	17
## 2012-11-26	19	20
## 2012-12-05	19	18
## 2012-12-17	19	18
## 2012-12-21	19	18
## 2012-12-28	19	19
## 2012-12-31	19	20
## 2013-01-02	20	20
## 2013-01-09	21	22
## 2013-01-22	21	20
## 2013-01-29	21	20
## 2013-02-01	20	20
## 2013-02-05	21	22
## 2013-02-07	22	22
## 2013-02-22	22	22
## 2013-02-25	21	21
## 2013-02-26	22	22
## 2013-02-27	22	22
## 2013-03-04	23	23
## 2013-03-05	23	23
## 2013-03-15	25	24
## 2013-03-18	24	24
## 2013-03-20	23	24
## 2013-03-21	22	24
## 2013-03-26	24	24
## 2013-03-28	23	23
## 2013-04-02	23	23
## 2013-04-09	25	26
## 2013-04-18	27	26
## 2013-04-23	25	25
## 2013-04-25	26	25
## 2013-04-29	26	26
## 2013-05-02	31	31
## 2013-05-06	31	31
## 2013-05-07	30	30
## 2013-05-10	31	31

## 2013-05-23	29	29
## 2013-05-24	30	30
## 2013-05-31	30	28
## 2013-06-06	29	30
## 2013-06-13	30	31
## 2013-06-14	31	32
## 2013-06-27	35	35
## 2013-07-03	35	35
## 2013-07-08	35	37
## 2013-07-09	37	37
## 2013-07-17	40	40
## 2013-07-19	41	41
## 2013-07-24	40	42
## 2013-07-30	43	42
## 2013-08-01	51	57
## 2013-08-06	52	52
## 2013-08-16	49	49
## 2013-08-23	52	51
## 2013-08-27	51	52
## 2013-08-29	53	52
## 2013-09-12	63	63
## 2013-09-25	68	68
## 2013-09-26	67	68
## 2013-10-02	71	71
## 2013-10-04	71	70
## 2013-10-08	63	63
## 2013-10-24	68	68
## 2013-10-29	69	67
## 2013-11-15	69	64
## 2013-11-20	63	64
## 2013-11-22	62	58
## 2013-11-25	59	62
## 2013-11-26	60	62
## 2013-11-29	59	60
## 2013-12-04	62	63
## 2013-12-09	65	66
## 2013-12-10	66	63
## 2013-12-31	69	68
## 2014-01-02	67	68
## 2014-01-06	71	73
## 2014-01-07	73	78
## 2014-01-16	81	82
## 2014-01-17	81	82
## 2014-01-23	78	76
## 2014-01-27	74	76
## 2014-01-28	76	72
## 2014-02-04	77	75
## 2014-02-05	77	89
## 2014-02-06	83	89
## 2014-02-10	92	93

## 2014-02-12	92	92
## 2014-02-14	92	92
## 2014-02-18	91	90
## 2014-02-25	95	95
## 2014-02-26	95	97
## 2014-02-27	95	94
## 2014-03-06	94	97
## 2014-03-12	90	87
## 2014-03-17	91	90
## 2014-03-20	84	83
## 2014-03-27	79	76
## 2014-03-31	78	80
## 2014-04-01	79	76
## 2014-04-02	73	71
## 2014-04-04	68	66
## 2014-04-11	63	62
## 2014-04-30	58	64
## 2014-05-02	60	60
## 2014-05-07	55	53
## 2014-05-12	54	56
## 2014-05-19	57	57
## 2014-05-22	61	62
## 2014-05-27	64	63
## 2014-05-28	64	69
## 2014-05-29	67	66
## 2014-06-02	65	65
## 2014-06-03	64	65
## 2014-06-04	65	65
## 2014-06-11	67	66
## 2014-06-17	75	77
## 2014-06-23	77	76
## 2014-06-27	78	77
## 2014-06-30	77	78
## 2014-07-09	69	71
## 2014-07-11	71	71
## 2014-07-14	70	69
## 2014-07-16	64	67
## 2014-07-17	69	68
## 2014-07-23	70	70
## 2014-07-28	70	69
## 2014-08-01	69	69
## 2014-08-07	68	68
## 2014-08-13	73	75
## 2014-08-21	81	82
## 2014-08-22	80	83
## 2014-08-25	81	82
## 2014-08-26	82	83
## 2014-09-02	83	83
## 2014-09-03	81	82
## 2014-09-05	81	82

## 2014-09-11	80	82
## 2014-09-17	76	76
## 2014-09-26	71	70
## 2014-09-29	66	68
## 2014-09-30	67	67
## 2014-10-01	69	69
## 2014-10-02	70	69
## 2014-10-08	68	70
## 2014-10-10	65	62
## 2014-10-24	58	57
## 2014-10-27	57	59
## 2014-10-31	60	61
## 2014-11-05	57	59
## 2014-11-14	58	58
## 2014-11-17	57	57
## 2014-11-26	58	57
## 2014-12-16	51	52
## 2014-12-17	52	52
## 2014-12-24	52	53
## 2014-12-29	54	54
## 2015-01-02	54	53
## 2015-01-06	52	52
## 2015-01-07	52	54
## 2015-01-09	55	54
## 2015-01-12	53	53
## 2015-01-14	52	50
## 2015-01-15	50	51
## 2015-01-22	55	55
## 2015-01-28	53	53
## 2015-02-04	58	57
## 2015-02-06	49	42
## 2015-02-12	47	48
## 2015-02-19	48	48
## 2015-02-27	48	48
## 2015-03-02	48	49
## 2015-03-03	48	48
## 2015-03-05	47	47
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## 2015-03-30	47	47
## 2015-04-01	46	47
## 2015-04-06	47	47
## 2015-04-17	48	48
## 2015-05-01	39	40
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## 2015-07-28	33	25
## 2015-08-03	26	26
## 2015-08-05	25	25
## 2015-08-19	25	24
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## 2015-08-26	24	24
## 2015-08-28	24	24
## 2015-09-01	24	24
## 2015-09-02	24	24
## 2015-09-03	24	24
## 2015-09-17	25	25
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## 2015-09-24	22	22
## 2015-10-09	25	23
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## 2015-10-15	23	23
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## 2015-11-09	25	25
## 2015-11-10	25	25
## 2015-11-11	25	26
## 2015-11-12	26	27
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## 2015-11-16	28	28
## 2015-11-18	28	28
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## 2015-11-25	30	30
## 2015-12-02	31	31
## 2015-12-09	30	31
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## 2016-01-28	22	21
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## 2016-05-31	26	26
## 2016-06-02	27	27
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## 2018-09-17	46	50
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## 2018-11-01	43	43
## 2018-11-08	43	32
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## 2019-02-06	37	36
## 2019-02-12	39	38
## 2019-02-13	40	38
## 2019-02-14	39	40
## 2019-02-21	38	39
## 2019-02-25	38	38
## 2019-02-28	37	37
## 2019-03-01	37	37
## 2019-03-07	34	35
## 2019-03-12	34	35

## 2019-03-14	35	35
## 2019-03-15	35	35
## 2019-03-19	34	35
## 2019-03-20	34	35
## 2019-03-21	35	34
## 2019-03-22	35	35
## 2019-03-27	35	35
## 2019-03-28	35	34
## 2019-03-29	35	35
## 2019-04-01	35	35
## 2019-04-10	36	36
## 2019-04-12	35	35
## 2019-04-22	37	38
## 2019-04-24	39	40
## 2019-04-25	39	40
## 2019-04-26	40	40
## 2019-05-01	41	40
## 2019-05-22	32	32
## 2019-05-24	32	31
## 2019-05-29	31	31
## 2019-06-07	32	32
## 2019-06-19	33	33
## 2019-06-26	34	34
## 2019-06-27	34	34
## 2019-07-05	35	35
## 2019-07-15	36	36
## 2019-07-18	34	34
## 2019-07-19	34	34
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## 2019-07-30	35	35
## 2019-07-31	34	35
## 2019-08-02	35	34
## 2019-08-12	34	35
## 2019-08-15	33	33
## 2019-08-16	33	33
## 2019-08-23	32	32
## 2019-08-30	33	33
## 2019-09-03	33	33
## 2019-09-06	33	33
## 2019-09-10	34	35
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## 2019-09-12	37	37
## 2019-09-24	34	35
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## 2019-10-09	31	32
## 2019-10-22	34	34
## 2019-10-23	33	34
## 2019-10-30	34	35
## 2019-11-01	35	34
## 2019-11-05	33	33

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## 2019-11-18      34      34
## 2019-11-21      34      35
## 2019-11-27      35      35
## 2019-12-02      34      34
## 2019-12-11      33      33
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## 2019-12-13      34      34
## 2019-12-16      34      34
## 2019-12-20      34      34
## 2019-12-23      34      34
## 2019-12-26      35      35
## 2019-12-31      34      35
## 2020-01-10      36      36
## 2020-01-29      35      35
## 2020-02-04      34      35
## 2020-02-07      34      34
## 2020-02-11      35      35
## 2020-02-13      36      35
## 2020-02-19      34      35
## 2020-02-20      34      34
## 2020-02-27      31      31
## 2020-03-02      31      31
## 2020-03-04      31      29
## 2020-03-09      27      28
```

```
sum <- sum(predRF_round==testingSet$NextDayPrice)
length <- length(testingSet$NextDayPrice)
accuracy_rfMod_round <- (sum/length)
accuracy_rfMod_round
```

```
## [1] 0.513245
```

```
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 NextDayPrice
## 2012-03-16      22      23
## 2012-03-21      23      23
## 2012-03-23      24      25
## 2012-03-27      27      28
## 2012-03-29      27      27
## 2012-04-02      27      27
## 2012-04-12      27      26
## 2012-04-13      25      26
## 2012-04-19      24      23
## 2012-04-24      21      21
```

## 2012-04-25	21	21
## 2012-04-26	21	22
## 2012-05-04	21	21
## 2012-05-11	20	20
## 2012-05-22	20	18
## 2012-05-29	17	17
## 2012-06-20	20	21
## 2012-06-25	23	22
## 2012-06-26	23	23
## 2012-07-03	25	26
## 2012-07-09	25	23
## 2012-07-11	22	22
## 2012-07-12	22	22
## 2012-07-18	23	24
## 2012-07-23	23	23
## 2012-08-03	24	25
## 2012-08-07	26	26
## 2012-08-08	26	26
## 2012-08-22	18	18
## 2012-09-12	25	24
## 2012-09-25	26	26
## 2012-09-28	27	28
## 2012-10-03	28	29
## 2012-10-05	27	28
## 2012-10-08	27	27
## 2012-10-09	27	26
## 2012-10-10	27	26
## 2012-10-11	25	25
## 2012-10-18	25	25
## 2012-10-22	24	24
## 2012-10-23	24	26
## 2012-10-25	23	23
## 2012-11-05	19	18
## 2012-11-07	19	18
## 2012-11-12	17	17
## 2012-11-26	19	20
## 2012-12-05	19	18
## 2012-12-17	19	18
## 2012-12-21	19	18
## 2012-12-28	19	19
## 2012-12-31	19	20
## 2013-01-02	20	20
## 2013-01-09	21	22
## 2013-01-22	21	20
## 2013-01-29	21	20
## 2013-02-01	20	20
## 2013-02-05	21	22
## 2013-02-07	22	22
## 2013-02-22	22	22
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## 2013-02-26	22	22
## 2013-02-27	22	22
## 2013-03-04	23	23
## 2013-03-05	23	23
## 2013-03-15	25	24
## 2013-03-18	24	24
## 2013-03-20	23	24
## 2013-03-21	22	24
## 2013-03-26	24	24
## 2013-03-28	23	23
## 2013-04-02	23	23
## 2013-04-09	25	26
## 2013-04-18	27	26
## 2013-04-23	25	25
## 2013-04-25	26	25
## 2013-04-29	26	26
## 2013-05-02	31	31
## 2013-05-06	31	31
## 2013-05-07	30	30
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## 2013-05-23	29	29
## 2013-05-24	30	30
## 2013-05-31	30	28
## 2013-06-06	29	30
## 2013-06-13	30	31
## 2013-06-14	31	32
## 2013-06-27	35	35
## 2013-07-03	35	35
## 2013-07-08	35	37
## 2013-07-09	37	37
## 2013-07-17	40	40
## 2013-07-19	41	41
## 2013-07-24	40	42
## 2013-07-30	43	42
## 2013-08-01	51	57
## 2013-08-06	52	52
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## 2013-08-29	53	52
## 2013-09-12	63	63
## 2013-09-25	68	68
## 2013-09-26	67	68
## 2013-10-02	71	71
## 2013-10-04	71	70
## 2013-10-08	63	63
## 2013-10-24	68	68
## 2013-10-29	69	67
## 2013-11-15	69	64
## 2013-11-20	63	64

## 2013-11-22	62	58
## 2013-11-25	59	62
## 2013-11-26	60	62
## 2013-11-29	59	60
## 2013-12-04	62	63
## 2013-12-09	65	66
## 2013-12-10	66	63
## 2013-12-31	69	68
## 2014-01-02	67	68
## 2014-01-06	71	73
## 2014-01-07	73	78
## 2014-01-16	81	82
## 2014-01-17	81	82
## 2014-01-23	78	76
## 2014-01-27	74	76
## 2014-01-28	76	72
## 2014-02-04	77	75
## 2014-02-05	77	89
## 2014-02-06	83	89
## 2014-02-10	92	93
## 2014-02-12	92	92
## 2014-02-14	92	92
## 2014-02-18	91	90
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## 2014-03-27	79	76
## 2014-03-31	78	80
## 2014-04-01	79	76
## 2014-04-02	73	71
## 2014-04-04	68	66
## 2014-04-11	63	62
## 2014-04-30	58	64
## 2014-05-02	60	60
## 2014-05-07	55	53
## 2014-05-12	54	56
## 2014-05-19	57	57
## 2014-05-22	61	62
## 2014-05-27	64	63
## 2014-05-28	64	69
## 2014-05-29	67	66
## 2014-06-02	65	65
## 2014-06-03	64	65
## 2014-06-04	65	65
## 2014-06-11	67	66
## 2014-06-17	75	77

## 2014-06-23	77	76
## 2014-06-27	78	77
## 2014-06-30	77	78
## 2014-07-09	69	71
## 2014-07-11	71	71
## 2014-07-14	70	69
## 2014-07-16	64	67
## 2014-07-17	69	68
## 2014-07-23	70	70
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## 2014-08-01	69	69
## 2014-08-07	68	68
## 2014-08-13	73	75
## 2014-08-21	81	82
## 2014-08-22	80	83
## 2014-08-25	81	82
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## 2015-07-20	34	36
## 2015-07-24	34	34
## 2015-07-28	33	25
## 2015-08-03	26	26
## 2015-08-05	25	25
## 2015-08-19	25	24
## 2015-08-20	23	23
## 2015-08-21	23	23
## 2015-08-24	23	23
## 2015-08-26	24	24
## 2015-08-28	24	24
## 2015-09-01	24	24
## 2015-09-02	24	24
## 2015-09-03	24	24

## 2015-09-17	25	25
## 2015-09-18	24	24
## 2015-09-21	24	23
## 2015-09-24	22	22
## 2015-10-09	25	23
## 2015-10-14	22	23
## 2015-10-15	23	23
## 2015-10-22	23	23
## 2015-10-23	23	24
## 2015-10-29	22	22
## 2015-11-02	24	24
## 2015-11-05	25	26
## 2015-11-09	25	25
## 2015-11-10	25	25
## 2015-11-11	25	26
## 2015-11-12	26	27
## 2015-11-13	27	27
## 2015-11-16	28	28
## 2015-11-18	28	28
## 2015-11-19	28	31
## 2015-11-23	31	30
## 2015-11-25	30	30
## 2015-12-02	31	31
## 2015-12-09	30	31
## 2015-12-11	29	30
## 2015-12-18	27	26
## 2015-12-21	27	28
## 2015-12-23	29	28
## 2016-01-04	27	27
## 2016-01-05	26	26
## 2016-01-19	21	21
## 2016-01-20	21	21
## 2016-01-26	22	22
## 2016-01-28	22	21
## 2016-02-09	16	15
## 2016-02-10	16	15
## 2016-02-17	19	18
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## 2016-02-25	19	20
## 2016-03-01	21	21
## 2016-03-03	22	22
## 2016-03-10	21	21
## 2016-03-14	21	20
## 2016-03-18	21	20
## 2016-03-21	20	20
## 2016-03-22	20	19
## 2016-03-23	20	20
## 2016-03-24	19	19
## 2016-04-04	20	19
## 2016-04-06	20	20

## 2016-04-08	20	19
## 2016-04-11	20	20
## 2016-04-13	21	21
## 2016-04-19	21	21
## 2016-04-21	22	22
## 2016-04-25	21	21
## 2016-04-27	21	21
## 2016-05-05	22	26
## 2016-05-09	26	26
## 2016-05-12	25	25
## 2016-05-13	25	25
## 2016-05-17	25	25
## 2016-05-20	25	25
## 2016-05-23	25	25
## 2016-05-25	25	26
## 2016-05-31	26	26
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## 2016-06-03	27	27
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## 2016-06-16	27	27
## 2016-06-17	27	28
## 2016-06-21	28	28
## 2016-06-22	29	30
## 2016-06-28	28	29
## 2016-07-05	30	30
## 2016-07-06	30	30
## 2016-07-26	30	30
## 2016-08-12	38	37
## 2016-08-18	38	39
## 2016-08-19	38	38
## 2016-08-24	37	37
## 2016-09-08	38	37
## 2016-09-09	37	38
## 2016-09-12	38	37
## 2016-09-14	38	38
## 2016-09-15	38	38
## 2016-09-20	37	39
## 2016-09-21	38	38
## 2016-09-22	39	39
## 2016-10-03	43	42
## 2016-10-04	43	42
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## 2016-10-13	37	36
## 2016-10-17	37	36
## 2016-10-18	35	35
## 2016-10-19	34	34
## 2016-10-21	33	34
## 2016-10-24	34	34

## 2016-10-25	33	33
## 2016-10-26	33	33
## 2016-11-01	33	36
## 2016-11-03	36	36
## 2016-11-04	36	37
## 2016-11-11	36	36
## 2016-11-14	36	37
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## 2016-12-01	36	36
## 2016-12-06	36	36
## 2016-12-12	35	36
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## 2016-12-16	36	36
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## 2017-01-30	42	42
## 2017-02-02	42	42
## 2017-02-08	42	41
## 2017-02-09	41	36
## 2017-02-22	34	33
## 2017-02-27	34	34
## 2017-03-08	34	34
## 2017-03-13	35	34
## 2017-03-23	32	32
## 2017-03-27	32	32
## 2017-03-31	33	33
## 2017-04-06	33	33
## 2017-04-07	33	33
## 2017-04-10	33	33
## 2017-04-11	33	32
## 2017-04-12	32	32
## 2017-04-20	34	33
## 2017-04-21	34	34
## 2017-04-26	35	36
## 2017-05-01	36	36
## 2017-05-02	36	35
## 2017-05-03	35	35
## 2017-05-04	36	36
## 2017-05-08	36	35
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## 2017-05-24	28	28
## 2017-06-06	30	30
## 2017-06-12	30	31
## 2017-06-16	31	30
## 2017-06-19	30	29
## 2017-06-29	30	30
## 2017-07-10	30	31

## 2017-07-19	32	32
## 2017-07-24	32	32
## 2017-07-26	33	33
## 2017-07-28	33	33
## 2017-08-02	32	31
## 2017-08-03	32	40
## 2017-08-08	41	42
## 2017-08-11	42	43
## 2017-08-23	42	42
## 2017-08-24	42	42
## 2017-08-28	43	42
## 2017-08-30	43	43
## 2017-09-06	43	44
## 2017-09-07	44	44
## 2017-09-11	44	44
## 2017-09-12	43	43
## 2017-09-13	43	43
## 2017-09-18	44	44
## 2017-09-20	44	44
## 2017-09-28	43	43
## 2017-09-29	44	44
## 2017-10-04	47	46
## 2017-10-06	46	46
## 2017-10-13	43	44
## 2017-10-16	43	43
## 2017-10-20	44	44
## 2017-10-23	44	44
## 2017-10-24	44	44
## 2017-11-01	45	46
## 2017-11-02	46	46
## 2017-11-03	46	46
## 2017-11-10	46	46
## 2017-11-13	46	46
## 2017-11-17	47	47
## 2017-11-27	48	47
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## 2017-12-14	43	42
## 2017-12-15	43	44
## 2017-12-22	43	42
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## 2018-01-18	43	43
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## 2018-02-14	42	42
## 2018-02-15	41	42
## 2018-02-23	43	44
## 2018-02-27	43	44
## 2018-03-06	45	46
## 2018-03-07	45	46

## 2018-03-08	46	47
## 2018-03-09	47	47
## 2018-03-13	46	46
## 2018-03-19	45	45
## 2018-03-28	43	42
## 2018-04-04	43	42
## 2018-04-11	45	44
## 2018-04-18	44	45
## 2018-04-23	44	44
## 2018-05-01	45	45
## 2018-05-03	45	46
## 2018-05-08	48	48
## 2018-05-15	44	44
## 2018-05-18	47	46
## 2018-05-24	43	43
## 2018-06-06	42	41
## 2018-06-08	41	42
## 2018-06-11	43	43
## 2018-06-13	42	41
## 2018-06-14	41	41
## 2018-06-27	39	39
## 2018-06-28	40	39
## 2018-07-02	40	39
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## 2018-07-13	40	40
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## 2018-07-18	40	40
## 2018-07-20	39	39
## 2018-07-24	39	39
## 2018-07-25	39	40
## 2018-07-27	38	37
## 2018-08-03	38	39
## 2018-08-15	46	46
## 2018-08-17	45	45
## 2018-08-27	47	47
## 2018-08-29	47	47
## 2018-09-07	45	45
## 2018-09-11	46	46
## 2018-09-12	47	46
## 2018-09-14	46	46
## 2018-09-17	46	50
## 2018-10-08	45	45
## 2018-10-12	43	43
## 2018-10-16	43	44
## 2018-10-19	43	43
## 2018-11-01	43	43
## 2018-11-08	43	32
## 2018-11-12	34	34
## 2018-11-27	32	32
## 2018-12-06	35	35

## 2018-12-07	35	36
## 2018-12-20	33	32
## 2018-12-24	33	34
## 2018-12-26	34	35
## 2018-12-31	35	35
## 2019-01-04	35	35
## 2019-01-07	35	36
## 2019-01-09	36	34
## 2019-01-22	36	35
## 2019-01-28	37	36
## 2019-02-06	37	36
## 2019-02-12	39	38
## 2019-02-13	40	38
## 2019-02-14	39	40
## 2019-02-21	38	39
## 2019-02-25	38	38
## 2019-02-28	37	37
## 2019-03-01	37	37
## 2019-03-07	34	35
## 2019-03-12	34	35
## 2019-03-14	35	35
## 2019-03-15	35	35
## 2019-03-19	34	35
## 2019-03-20	34	35
## 2019-03-21	35	34
## 2019-03-22	35	35
## 2019-03-27	35	35
## 2019-03-28	35	34
## 2019-03-29	35	35
## 2019-04-01	35	35
## 2019-04-10	36	36
## 2019-04-12	35	35
## 2019-04-22	37	38
## 2019-04-24	39	40
## 2019-04-25	39	40
## 2019-04-26	40	40
## 2019-05-01	41	40
## 2019-05-22	32	32
## 2019-05-24	32	31
## 2019-05-29	31	31
## 2019-06-07	32	32
## 2019-06-19	33	33
## 2019-06-26	34	34
## 2019-06-27	34	34
## 2019-07-05	35	35
## 2019-07-15	36	36
## 2019-07-18	34	34
## 2019-07-19	34	34
## 2019-07-29	36	36
## 2019-07-30	35	35

## 2019-07-31	34	35
## 2019-08-02	35	34
## 2019-08-12	34	35
## 2019-08-15	33	33
## 2019-08-16	33	33
## 2019-08-23	32	32
## 2019-08-30	33	33
## 2019-09-03	33	33
## 2019-09-06	33	33
## 2019-09-10	34	35
## 2019-09-11	35	37
## 2019-09-12	37	37
## 2019-09-24	34	35
## 2019-10-07	33	33
## 2019-10-09	31	32
## 2019-10-22	34	34
## 2019-10-23	33	34
## 2019-10-30	34	35
## 2019-11-01	35	34
## 2019-11-05	33	33
## 2019-11-18	34	34
## 2019-11-21	34	35
## 2019-11-27	35	35
## 2019-12-02	34	34
## 2019-12-11	33	33
## 2019-12-12	34	34
## 2019-12-13	34	34
## 2019-12-16	34	34
## 2019-12-20	34	34
## 2019-12-23	34	34
## 2019-12-26	35	35
## 2019-12-31	34	35
## 2020-01-10	36	36
## 2020-01-29	35	35
## 2020-02-04	34	35
## 2020-02-07	34	34
## 2020-02-11	35	35
## 2020-02-13	36	35
## 2020-02-19	34	35
## 2020-02-20	34	34
## 2020-02-27	31	31
## 2020-03-02	31	31
## 2020-03-04	31	29
## 2020-03-09	27	28
## results_round	0.51	100

```

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

```

```

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

glmMod_round <- train(NextDayPrice ~ .,
                      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$NextDayPrice)

sumKNN_round <- sum(predKNN_round==testingSet$NextDayPrice)
sumRPart_round <- sum(predRPART_round==testingSet$NextDayPrice)

sumGLM_round <- sum(predGLM_round==testingSet$NextDayPrice)

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,
           NextDayPrice=testingSet$NextDayPrice)
colnames(predDF2_round) <-
c('RandomForest_round','KNN_round','Rpart_round','GLM_round','NextDayPrice')

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','NextDayPrice')
Results_round <- rbind(predDF2_round, results_round)
Results_round

##           RandomForest_round KNN_round Rpart_round GLM_round
NextDayPrice
## 2012-03-16                22        24          21         22
23
## 2012-03-21                23        23          21         24
23

```

## 2012-03-23 25	24	31	21	24
## 2012-03-27 28	27	32	28	29
## 2012-03-29 27	27	31	28	27
## 2012-04-02 27	27	28	28	26
## 2012-04-12 26	27	28	28	27
## 2012-04-13 26	25	31	28	26
## 2012-04-19 23	24	30	21	24
## 2012-04-24 21	21	23	21	21
## 2012-04-25 21	21	31	21	22
## 2012-04-26 22	21	23	21	22
## 2012-05-04 21	21	22	21	22
## 2012-05-11 20	20	22	21	20
## 2012-05-22 18	20	23	21	19
## 2012-05-29 17	17	20	21	16
## 2012-06-20 21	20	21	21	20
## 2012-06-25 22	23	30	21	23
## 2012-06-26 23	23	26	21	23
## 2012-07-03 26	25	30	28	26
## 2012-07-09 23	25	23	28	24
## 2012-07-11 22	22	24	21	21
## 2012-07-12 22	22	25	21	21
## 2012-07-18 24	23	27	21	24
## 2012-07-23 23	23	27	21	23
## 2012-08-03 25	24	22	21	24
## 2012-08-07 26	26	28	28	27

## 2012-08-08 26	26	30	28	26
## 2012-08-22 18	18	25	21	19
## 2012-09-12 24	25	23	28	25
## 2012-09-25 26	26	28	28	26
## 2012-09-28 28	27	27	28	28
## 2012-10-03 29	28	30	28	29
## 2012-10-05 28	27	29	28	27
## 2012-10-08 27	27	28	28	27
## 2012-10-09 26	27	26	28	27
## 2012-10-10 26	27	27	28	26
## 2012-10-11 25	25	30	28	25
## 2012-10-18 25	25	25	28	24
## 2012-10-22 24	24	23	21	23
## 2012-10-23 26	24	28	21	24
## 2012-10-25 23	23	22	21	23
## 2012-11-05 18	19	24	21	18
## 2012-11-07 18	19	24	21	17
## 2012-11-12 17	17	28	21	17
## 2012-11-26 20	19	28	21	20
## 2012-12-05 18	19	20	21	18
## 2012-12-17 18	19	20	21	18
## 2012-12-21 18	19	28	21	19
## 2012-12-28 19	19	28	21	19
## 2012-12-31 20	19	20	21	20
## 2013-01-02 20	20	24	21	20

## 2013-01-09	21	24	21	21
22				
## 2013-01-22	21	23	21	21
20				
## 2013-01-29	21	22	21	20
20				
## 2013-02-01	20	23	21	20
20				
## 2013-02-05	21	23	21	22
22				
## 2013-02-07	22	24	21	22
22				
## 2013-02-22	22	23	21	22
22				
## 2013-02-25	21	23	21	21
21				
## 2013-02-26	22	23	21	22
22				
## 2013-02-27	22	22	21	23
22				
## 2013-03-04	23	28	21	23
23				
## 2013-03-05	23	24	21	22
23				
## 2013-03-15	25	24	28	25
24				
## 2013-03-18	24	27	28	24
24				
## 2013-03-20	23	24	21	23
24				
## 2013-03-21	22	26	21	23
24				
## 2013-03-26	24	27	21	25
24				
## 2013-03-28	23	25	21	23
23				
## 2013-04-02	23	24	21	24
23				
## 2013-04-09	25	26	28	26
26				
## 2013-04-18	27	24	28	26
26				
## 2013-04-23	25	24	28	25
25				
## 2013-04-25	26	26	28	26
25				
## 2013-04-29	26	27	28	26
26				
## 2013-05-02	31	32	35	31
31				

## 2013-05-06 31	31	31	28	30
## 2013-05-07 30	30	32	28	30
## 2013-05-10 31	31	32	28	31
## 2013-05-23 29	29	31	28	29
## 2013-05-24 30	30	32	28	30
## 2013-05-31 28	30	29	28	29
## 2013-06-06 30	29	29	28	30
## 2013-06-13 31	30	30	28	30
## 2013-06-14 32	31	28	28	32
## 2013-06-27 35	35	35	35	35
## 2013-07-03 35	35	33	35	35
## 2013-07-08 37	35	34	35	36
## 2013-07-09 37	37	33	35	37
## 2013-07-17 40	40	38	43	40
## 2013-07-19 41	41	44	43	41
## 2013-07-24 42	40	43	43	40
## 2013-07-30 42	43	41	43	43
## 2013-08-01 57	51	35	55	52
## 2013-08-06 52	52	45	55	52
## 2013-08-16 49	49	45	47	49
## 2013-08-23 51	52	46	55	51
## 2013-08-27 52	51	53	55	52
## 2013-08-29 52	53	49	55	54
## 2013-09-12 63	63	64	67	63
## 2013-09-25 68	68	70	67	68

## 2013-09-26 68	67	69	67	67
## 2013-10-02 71	71	71	67	72
## 2013-10-04 70	71	69	77	72
## 2013-10-08 63	63	65	67	64
## 2013-10-24 68	68	67	67	67
## 2013-10-29 67	69	58	67	68
## 2013-11-15 64	69	62	67	70
## 2013-11-20 64	63	64	67	62
## 2013-11-22 58	62	63	67	61
## 2013-11-25 62	59	61	55	59
## 2013-11-26 62	60	61	67	60
## 2013-11-29 60	59	61	55	60
## 2013-12-04 63	62	63	67	63
## 2013-12-09 66	65	66	67	65
## 2013-12-10 63	66	66	67	65
## 2013-12-31 68	69	66	67	68
## 2014-01-02 68	67	69	67	67
## 2014-01-06 73	71	68	77	72
## 2014-01-07 78	73	74	77	73
## 2014-01-16 82	81	72	77	82
## 2014-01-17 82	81	78	77	81
## 2014-01-23 76	78	68	77	79
## 2014-01-27 76	74	68	77	73
## 2014-01-28 72	76	67	77	75
## 2014-02-04 75	77	68	77	77

## 2014-02-05 89	77	71	77	76
## 2014-02-06 89	83	66	92	87
## 2014-02-10 93	92	75	92	92
## 2014-02-12 92	92	81	92	91
## 2014-02-14 92	92	86	92	90
## 2014-02-18 90	91	83	92	91
## 2014-02-25 95	95	84	92	95
## 2014-02-26 97	95	80	92	96
## 2014-02-27 94	95	80	92	97
## 2014-03-06 97	94	81	92	96
## 2014-03-12 87	90	79	92	91
## 2014-03-17 90	91	75	92	89
## 2014-03-20 83	84	71	77	84
## 2014-03-27 76	79	73	77	77
## 2014-03-31 80	78	68	77	78
## 2014-04-01 76	79	69	77	79
## 2014-04-02 71	73	65	77	75
## 2014-04-04 66	68	67	67	67
## 2014-04-11 62	63	63	67	62
## 2014-04-30 64	58	58	55	59
## 2014-05-02 60	60	66	55	61
## 2014-05-07 53	55	50	55	53
## 2014-05-12 56	54	51	55	56
## 2014-05-19 57	57	55	55	58
## 2014-05-22 62	61	55	55	61

## 2014-05-27 63	64	64	67	63
## 2014-05-28 69	64	61	67	64
## 2014-05-29 66	67	59	67	67
## 2014-06-02 65	65	66	67	65
## 2014-06-03 65	64	53	67	64
## 2014-06-04 65	65	60	67	66
## 2014-06-11 66	67	60	67	66
## 2014-06-17 77	75	73	77	75
## 2014-06-23 76	77	66	77	77
## 2014-06-27 77	78	70	77	76
## 2014-06-30 78	77	71	77	78
## 2014-07-09 71	69	73	67	70
## 2014-07-11 71	71	70	67	71
## 2014-07-14 69	70	64	67	70
## 2014-07-16 67	64	61	67	67
## 2014-07-17 68	69	68	67	67
## 2014-07-23 70	70	63	67	69
## 2014-07-28 69	70	67	67	70
## 2014-08-01 69	69	70	67	66
## 2014-08-07 68	68	63	67	68
## 2014-08-13 75	73	68	77	74
## 2014-08-21 82	81	77	77	80
## 2014-08-22 83	80	77	77	81
## 2014-08-25 82	81	76	77	82
## 2014-08-26 83	82	74	77	83

## 2014-09-02	83	77	77	84
83				
## 2014-09-03	81	64	77	82
82				
## 2014-09-05	81	70	77	82
82				
## 2014-09-11	80	69	77	81
82				
## 2014-09-17	76	76	77	76
76				
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## 2020-02-27	31	29	28	31
31				
## 2020-03-02	31	28	35	31
31				

## 2020-03-04	31	32	28	30
29				
## 2020-03-09	27	29	28	27
28				
## results_round	0.51	0.13	0.17	0.48
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	GLM
## 2012-03-16	21.8527515231	23.6080002	20.9650825454545	21.7814565517811
## 2012-03-21	23.4433496296334	23.334	20.9650825454545	23.7786820694221
## 2012-03-23	23.5171571670001	30.818	20.9650825454545	24.4637223628292
## 2012-03-27	26.7315608579667	31.8979998	27.9981278173516	28.460641384726
## 2012-03-29	27.3648435893667	31.0059998	27.9981278173516	27.2643439441957
## 2012-04-02	26.9627240613667	27.9959992	27.9981278173516	25.939775591441
## 2012-04-12	26.5081473320333	28.3899998	27.9981278173516	26.9660616579355
## 2012-04-13	25.4969236192	30.8579998	27.9981278173516	25.8904877948612
## 2012-04-19	23.6269034890667	30.0299994	20.9650825454545	23.8634765600345
## 2012-04-24	20.5944217580667	22.6640004	20.9650825454545	20.8380706947259
## 2012-04-25	21.2889651799667	30.874	20.9650825454545	22.140347491964
## 2012-04-26	21.3916120998333	23.208	20.9650825454545	22.1386636235722
## 2012-05-04	21.3352766541238	22.1039996	20.9650825454545	21.9681765141924
## 2012-05-11	20.1766577361667	21.8099996	20.9650825454545	19.6286239164327
## 2012-05-22	19.6138927228333	22.9079998	20.9650825454545	19.4019427198856
## 2012-05-29	16.6515347609333	20.4500002	20.9650825454545	16.3579786851369
## 2012-06-20	20.0854815850334	21.2300008	20.9650825454545	20.2134185778226
## 2012-06-25	22.9155171123334	30.1120002	20.9650825454545	22.9454471998828
## 2012-06-26	22.7613093761001	26.5280004	20.9650825454545	23.0822933265096
## 2012-07-03	25.4344445799667	29.996	27.9981278173516	25.710234956902
## 2012-07-09	24.6087567422334	23.2060006	27.9981278173516	23.912832611038
## 2012-07-11	21.5286605817334	24.2220002	20.9650825454545	21.3538953933577
## 2012-07-12	21.7851445682333	24.9539998	20.9650825454545	21.0407264449663
## 2012-07-18	23.1684302918667	26.4740002	20.9650825454545	23.8639106956632
## 2012-07-23	22.5877293654667	27.0179996	20.9650825454545	22.5005757454607
## 2012-08-03	23.8215202886	22.33	20.9650825454545	24.1457172040362
## 2012-08-07	26.2130035106667	27.9540002	27.9981278173516	26.7850062385313
## 2012-08-08	26.1027298571667	30.512	27.9981278173516	26.3626289539162
## 2012-08-22	18.2162299556	24.8299998	20.9650825454545	18.8120435469584
## 2012-09-12	25.0343093901	23.1160004	27.9981278173516	24.9311136346292
## 2012-09-25	25.7020756728	28.0579992	27.9981278173516	26.4617836955097
## 2012-09-28	27.001871156	26.5300002	27.9981278173516	27.8628091553745
## 2012-10-03	28.3102780652333	30.3200004	27.9981278173516	28.7112283028014
## 2012-10-05	27.3545024159	28.5500004	27.9981278173516	27.3766615397148
## 2012-10-08	27.3111955584667	28.2480004	27.9981278173516	27.360520444061
## 2012-10-09	27.3259489885667	25.9879996	27.9981278173516	26.6005573077158
## 2012-10-10	26.7060549194333	26.7259998	27.9981278173516	25.6270693570103

##	2012-10-11	25.420298464	30.0359998	27.9981278173516	25.1989443543546
##	2012-10-18	24.8069210840334	25.0920002	27.9981278173516	23.9025368703918
##	2012-10-22	23.6132347371	22.8200006	20.9650825454545	23.3862558756113
##	2012-10-23	23.7388757895667	27.6180002	20.9650825454545	24.1296339131607
##	2012-10-25	23.4430023027334	22.0939998	20.9650825454545	23.3829178527853
##	2012-11-05	18.7958237824667	23.8319996	20.9650825454545	18.2840177365141
##	2012-11-07	18.5030689915	24.238	20.9650825454545	17.1130700955869
##	2012-11-12	16.8819036967	27.8400004	20.9650825454545	17.2818144885921
##	2012-11-26	19.2135751367333	28.1760004	20.9650825454545	19.9423503435242
##	2012-12-05	18.6102622804667	20.2900006	20.9650825454545	17.9053817680437
##	2012-12-17	18.6244979056	19.584	20.9650825454545	18.156600543574
##	2012-12-21	19.0728561936666	27.6079998	20.9650825454545	18.9763151502304
##	2012-12-28	19.0557485291333	27.6079998	20.9650825454545	18.8484865594128
##	2012-12-31	19.0161974055666	20.0039992	20.9650825454545	20.2837305274913
##	2013-01-02	19.7613138706	24.4299998	20.9650825454545	20.4720193752848
##	2013-01-09	20.9626635338	24.1139998	20.9650825454545	20.7905539490091
##	2013-01-22	20.8019539310333	22.7299998	20.9650825454545	21.3818085991857
##	2013-01-29	20.7830123604334	22.0259998	20.9650825454545	20.0862914379507
##	2013-02-01	19.7448611049333	23.2479994	20.9650825454545	19.6508019690073
##	2013-02-05	21.3322236462905	22.5280006	20.9650825454545	22.0140968523812
##	2013-02-07	21.6475249415333	24.3399996	20.9650825454545	22.2068869700472
##	2013-02-22	22.3878008825	23.254	20.9650825454545	21.58047941358
##	2013-02-25	21.4329193252334	22.7960002	20.9650825454545	20.9222060067743
##	2013-02-26	21.5069223587	22.8379996	20.9650825454545	22.2742714624965
##	2013-02-27	22.0819285846	22.2160002	20.9650825454545	22.6954472073551
##	2013-03-04	23.4717024681667	27.4120004	20.9650825454545	22.7770827063733
##	2013-03-05	22.6066412439667	24.3199996	20.9650825454545	22.3383725123655
##	2013-03-15	24.6768002346	24.1420006	27.9981278173516	24.5191834971961
##	2013-03-18	24.3336276279667	26.9580004	27.9981278173516	23.8215522183486
##	2013-03-20	23.3380781172333	23.814	20.9650825454545	23.2712432701707
##	2013-03-21	22.4287356807	25.7299998	20.9650825454545	23.2981319197384
##	2013-03-26	24.4902037373048	26.9360004	20.9650825454545	24.5261482907636
##	2013-03-28	22.5319182301334	24.996	20.9650825454545	22.8969596593817
##	2013-04-02	23.1994227932667	24.1	20.9650825454545	23.5908672118994
##	2013-04-09	25.1117647320667	26.3099996	27.9981278173516	25.5276804195466
##	2013-04-18	26.6258820097333	24.3399996	27.9981278173516	26.1652929053995
##	2013-04-23	25.1841714352667	24.1359996	27.9981278173516	24.5118381836682
##	2013-04-25	25.9446791177667	25.866	27.9981278173516	26.3222035872585
##	2013-04-29	25.6667451419667	26.3399998	27.9981278173516	26.0852461842042
##	2013-05-02	30.7511255153333	32.4019998	35.1029891793478	30.6051995454228
##	2013-05-06	30.5995976222333	31.2179996	27.9981278173516	29.78826001277
##	2013-05-07	30.4503846158333	31.6219996	27.9981278173516	29.7830306895422
##	2013-05-10	30.7931603901333	31.47	27.9981278173516	30.7278593694342
##	2013-05-23	29.4323400601	31.008	27.9981278173516	28.9160010023821
##	2013-05-24	29.6256425740334	32.0760002	27.9981278173516	30.4861321505503
##	2013-05-31	29.6442441480333	28.7420002	27.9981278173516	28.7641078619492
##	2013-06-06	29.2208351965666	28.852	27.9981278173516	29.9507788867742
##	2013-06-13	29.9824076059334	29.7359992	27.9981278173516	30.3819399964401
##	2013-06-14	30.7018042019333	27.9839996	27.9981278173516	31.534662070269
##	2013-06-27	34.8338152748333	35.4460006	35.1029891793478	35.1226456800167

##	2013-07-03	34.8428423935	33.4300004	35.1029891793478	35.06407650233
##	2013-07-08	35.0047855605667	34.1680002	35.1029891793478	35.6737994999952
##	2013-07-09	37.0285621747	33.3999992	35.1029891793478	36.5628825349185
##	2013-07-17	40.1779637575333	37.619999	42.6434158168317	39.6621586647269
##	2013-07-19	41.2300803368333	44.0359994	42.6434158168317	40.6082691257933
##	2013-07-24	39.9587846494667	43.4620004	42.6434158168317	40.4675174369466
##	2013-07-30	42.8743627331	41.5879998	42.6434158168317	43.1883962285027
##	2013-08-01	50.6650126915668	35.2759998	55.2323077307692	51.6576296470528
##	2013-08-06	52.4880494620999	44.8680008	55.2323077307692	52.3083625448619
##	2013-08-16	48.9155996030333	44.732001	47.1672581370968	49.202194401652
##	2013-08-23	51.5323901967333	46.3059998	55.2323077307692	50.869715514699
##	2013-08-27	50.8584459283	52.5960002	55.2323077307692	52.3104482433789
##	2013-08-29	52.8961819374667	48.95	55.2323077307692	53.6090580628145
##	2013-09-12	62.5798434800667	64.3420006	66.9224110178571	62.8529892212826
##	2013-09-25	67.9804589177666	70.513999	66.9224110178571	67.8038643005673
##	2013-09-26	66.8993887879	69.0000008	66.9224110178571	67.4882946658836
##	2013-10-02	71.0242509183667	71.4740006	66.9224110178571	71.6743878498491
##	2013-10-04	71.2900143811667	69.16	77.41711525	72.0414927091168
##	2013-10-08	63.1129649967668	65.0840014	66.9224110178571	64.0808102413485
##	2013-10-24	67.8035080304667	67.0800002	66.9224110178571	67.0615354301987
##	2013-10-29	69.0700246224666	57.668	66.9224110178571	68.0679405904157
##	2013-11-15	68.6468244290667	61.828	66.9224110178571	69.6841915601556
##	2013-11-20	62.6916251960334	63.856	66.9224110178571	62.2414860931837
##	2013-11-22	61.6479064736668	62.4559996	66.9224110178571	61.485887071857
##	2013-11-25	58.5337230737	61.06	55.2323077307692	58.6283539518698
##	2013-11-26	60.0273199920333	60.5880012	66.9224110178571	60.3622330445588
##	2013-11-29	58.9264837434333	60.635999	55.2323077307692	59.6571021860031
##	2013-12-04	62.4292272080667	63.5960008	66.9224110178571	62.5167036603795
##	2013-12-09	65.1528056931001	65.6740004	66.9224110178571	64.4839771908069
##	2013-12-10	65.6128383489666	66.0060014	66.9224110178571	65.3514590966909
##	2013-12-31	68.5174039968	65.6340012	66.9224110178571	67.9869795678658
##	2014-01-02	66.7808226841999	69.0000008	66.9224110178571	67.0855923082096
##	2014-01-06	70.5873192642	67.7399986	77.41711525	72.1324584860437
##	2014-01-07	72.9227634990333	73.5779998	77.41711525	73.3523892096385
##	2014-01-16	81.2817899251998	72.0179992	77.41711525	81.7069368339263
##	2014-01-17	80.9104458304667	78.3080004	77.41711525	81.2050193446648
##	2014-01-23	77.8423058809334	68.0280006	77.41711525	78.5396510838079
##	2014-01-27	73.9612341391001	68.1419998	77.41711525	72.6756357463787
##	2014-01-28	75.663785221	66.6460006	77.41711525	75.1029797081782
##	2014-02-04	77.4823876693333	68.1400008	77.41711525	76.8224336195716
##	2014-02-05	76.6325718782333	71.4740006	77.41711525	75.878814848395
##	2014-02-06	82.7718537667999	65.9199988	92.0127780555555	87.5196873138891
##	2014-02-10	91.7486408151334	74.7359986	92.0127780555555	91.5038162840196
##	2014-02-12	91.8631514175666	80.8980012	92.0127780555555	91.3053634917519
##	2014-02-14	91.6867760355332	85.9320006	92.0127780555555	90.3607041394763
##	2014-02-18	90.8530893478	83.0880006	92.0127780555555	90.816924942704
##	2014-02-25	94.9660390402001	84.1400008	92.0127780555555	95.2222166181112
##	2014-02-26	95.4258926340667	80.1220002	92.0127780555555	95.7197634720791
##	2014-02-27	95.2007289143667	79.7579986	92.0127780555555	96.859356673458
##	2014-03-06	94.4849443988668	81.4259994	92.0127780555555	96.3327453827091

##	2014-03-12	90.3277375169	79.215999	92.0127780555555	91.0464174353379
##	2014-03-17	90.9991580275334	74.7359986	92.0127780555555	89.3701189028288
##	2014-03-20	83.9286272508333	70.4000008	77.41711525	83.6432633699451
##	2014-03-27	78.7969283101998	72.5580002	77.41711525	77.3649880133014
##	2014-03-31	77.5431427005333	68.487999	77.41711525	77.4848854904669
##	2014-04-01	78.7725008654666	69.0600008	77.41711525	79.0558681169859
##	2014-04-02	72.9533523748667	65.3279992	77.41711525	74.8242523173924
##	2014-04-04	67.8831627321	67.4920012	66.9224110178571	66.6118871834039
##	2014-04-11	63.1083095072334	62.7080008	66.9224110178571	62.4195671181174
##	2014-04-30	58.2932876922001	57.8479996	55.2323077307692	58.8767736735731
##	2014-05-02	59.5567001411667	65.7220016	55.2323077307692	60.614341629919
##	2014-05-07	54.5660710398667	50.3199996	55.2323077307692	53.4245522820864
##	2014-05-12	54.0191070244334	50.8660004	55.2323077307692	55.8880831685293
##	2014-05-19	57.4782637652667	55.2159996	55.2323077307692	57.7585549704689
##	2014-05-22	61.3755099007	55.11	55.2323077307692	60.9157762588794
##	2014-05-27	64.0497927432667	63.6420006	66.9224110178571	63.2181897658048
##	2014-05-28	63.7932106822	61.1580002	66.9224110178571	63.920651541224
##	2014-05-29	66.5269070498668	58.9059996	66.9224110178571	66.8987234817985
##	2014-06-02	64.8852094369667	66.1480012	66.9224110178571	64.8081245806785
##	2014-06-03	64.4202650712667	53.1839994	66.9224110178571	64.0184860700825
##	2014-06-04	65.2965845244333	60.6920008	66.9224110178571	65.6793508708465
##	2014-06-11	66.7007944369334	59.777999	66.9224110178571	66.3172846111994
##	2014-06-17	75.1408064425666	73.1139998	77.41711525	75.1892337927387
##	2014-06-23	77.1374335425333	65.8480002	77.41711525	76.6819965646197
##	2014-06-27	77.7852263459332	70.1159996	77.41711525	76.3783454453889
##	2014-06-30	77.0804776074666	70.6060006	77.41711525	77.8042129118707
##	2014-07-09	69.4605588968001	72.896	66.9224110178571	69.8866842185217
##	2014-07-11	71.1574815726667	70.084001	66.9224110178571	70.5621403227865
##	2014-07-14	70.4809548679	63.6420004	66.9224110178571	69.7194051830442
##	2014-07-16	63.8736681531333	60.8299988	66.9224110178571	66.998882976262
##	2014-07-17	69.0279076522333	68.11	66.9224110178571	66.6374001622613
##	2014-07-23	69.6818058326001	63.441999	66.9224110178571	69.285033402072
##	2014-07-28	70.0852356115333	67.4379996	66.9224110178571	70.0215680939369
##	2014-08-01	68.5184230446333	69.7520002	66.9224110178571	66.3139566950694
##	2014-08-07	67.6646575027667	63.5840004	66.9224110178571	67.8499116196354
##	2014-08-13	72.5220304099334	68.0939994	77.41711525	74.0827403313444
##	2014-08-21	80.6067549330665	76.811998	77.41711525	80.4262404553936
##	2014-08-22	80.2882837258667	77.0319998	77.41711525	81.4667594164943
##	2014-08-25	80.9668336051	75.7219994	77.41711525	81.7780832744715
##	2014-08-26	82.3761986544333	73.8200014	77.41711525	83.0067920656472
##	2014-09-02	83.1042688434	77.0860002	77.41711525	83.9523601968507
##	2014-09-03	81.4093785009999	64.4079986	77.41711525	82.2996535150378
##	2014-09-05	81.2043803101999	70.1159996	77.41711525	81.7136393190853
##	2014-09-11	80.4707472005	69.0000008	77.41711525	80.935917705139
##	2014-09-17	76.0984796542667	75.815999	77.41711525	75.8633914409989
##	2014-09-26	70.5788178533667	64.418	66.9224110178571	69.3779910535655
##	2014-09-29	66.2791428704666	70.7839996	66.9224110178571	68.6463000345899
##	2014-09-30	66.8950538438332	64.368001	66.9224110178571	67.3940249284126
##	2014-10-01	68.613718151	63.2940004	66.9224110178571	67.5256625279708
##	2014-10-02	69.9486219094332	71.3300002	66.9224110178571	69.5407437194455

##	2014-10-08	68.3229943998	73.905999	66.9224110178571	68.5072494345081
##	2014-10-10	65.3684514875667	60.8459998	66.9224110178571	65.2221281635884
##	2014-10-24	57.6362332039001	55.2360002	55.2323077307692	58.453299387838
##	2014-10-27	57.2297470482667	50.814001	55.2323077307692	58.0449924364611
##	2014-10-31	60.4728152349668	63.1720008	55.2323077307692	60.4428956552749
##	2014-11-05	57.3194917683333	64.8939996	55.2323077307692	57.7936734129008
##	2014-11-14	57.8812598597668	49.613999	55.2323077307692	58.2516411522642
##	2014-11-17	56.7536549374334	48.8900004	55.2323077307692	57.1852419976679
##	2014-11-26	57.8869570365333	55.1139992	55.2323077307692	57.2397181799318
##	2014-12-16	50.9028405747333	42.3720002	47.1672581370968	51.6201825788466
##	2014-12-17	51.7888269159668	48.5539992	55.2323077307692	52.4302208737547
##	2014-12-24	52.4722989300001	48.632	55.2323077307692	52.0244067502817
##	2014-12-29	54.1552082354001	52.3800002	55.2323077307692	53.8835086991856
##	2015-01-02	53.7151117485334	49.400001	55.2323077307692	54.3754858793218
##	2015-01-06	52.1370425956667	49.2160004	55.2323077307692	51.5539714327993
##	2015-01-07	52.4279057323334	50.5160004	55.2323077307692	52.614438476083
##	2015-01-09	54.8853628953667	44.0359994	55.2323077307692	54.8859402049431
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##	2015-01-14	52.3884612837667	43.4160004	55.2323077307692	51.1060783351573
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##	2015-01-22	55.4977755047	49.3439996	55.2323077307692	55.2232215268348
##	2015-01-28	52.9438150363667	48.2900002	55.2323077307692	52.1136973408713
##	2015-02-04	57.6975713570667	57.7599998	55.2323077307692	57.3806647070955
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##	2015-02-19	47.5272702765001	45.25	47.1672581370968	47.5012260966481
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##	2015-03-13	46.1514349445333	42.9919998	47.1672581370968	47.5430523970468
##	2015-03-16	46.2701583098	44.6879998	47.1672581370968	47.4120397999075
##	2015-03-18	46.2325300199	43.3800002	47.1672581370968	45.7904497893931
##	2015-03-19	44.6791785103666	40.9519996	47.1672581370968	44.393444663686
##	2015-03-23	47.2119146600524	43.6559998	47.1672581370968	47.6031288578631
##	2015-03-25	45.3737066288333	45.9940004	47.1672581370968	44.8788121262965
##	2015-03-30	46.9107227972	41.8960006	47.1672581370968	46.6928953179516
##	2015-04-01	46.0916445176666	45.9240006	47.1672581370968	46.1286481909238
##	2015-04-06	47.0855356602	45.230001	47.1672581370968	47.1755462968183
##	2015-04-17	47.8956046296333	46.486	47.1672581370968	47.3304258010855
##	2015-05-01	39.1827986005334	43.7159988	42.6434158168317	38.3814728943381
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##	2015-05-06	39.3201827098333	41.0920002	35.1029891793478	38.7090246511621
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##	2015-05-26	45.0927202392	42.5640008	47.1672581370968	44.833270890334
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##	2015-07-13	35.6695994472334	33.7000008	35.1029891793478	36.1541092185688
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##	2015-07-20	34.3340242097334	33.8320002	35.1029891793478	34.7777306083915
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##	2017-03-27	32.1241395794333	36.282	35.1029891793478	31.6925123887608
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##	2017-05-03	35.2902984423333	36.8080002	35.1029891793478	36.4638313298913
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##	2012-12-05	18.09
##	2012-12-17	18.059999
##	2012-12-21	18.440001
##	2012-12-28	18.85
##	2012-12-31	19.700001
##	2013-01-02	20.15
##	2013-01-09	22.190001
##	2013-01-22	20.34
##	2013-01-29	20.459999
##	2013-02-01	20.34
##	2013-02-05	22.379999
##	2013-02-07	21.85
##	2013-02-22	21.620001
##	2013-02-25	21.290001
##	2013-02-26	21.860001
##	2013-02-27	22.190001
##	2013-03-04	23.02
##	2013-03-05	23.02
##	2013-03-15	24.5
##	2013-03-18	24.280001
##	2013-03-20	24
##	2013-03-21	23.790001
##	2013-03-26	23.719999
##	2013-03-28	22.889999
##	2013-04-02	23.049999
##	2013-04-09	25.75
##	2013-04-18	25.5
##	2013-04-23	24.969999
##	2013-04-25	25.450001
##	2013-04-29	26.030001
##	2013-05-02	31.120001
##	2013-05-06	30.67
##	2013-05-07	29.91
##	2013-05-10	30.92
##	2013-05-23	29.34

2013-05-24 29.950001
2013-05-31 28.15
2013-06-06 30.110001
2013-06-13 30.84
2013-06-14 31.75
2013-06-27 34.77
2013-07-03 34.990002
2013-07-08 37.240002
2013-07-09 36.900002
2013-07-17 39.75
2013-07-19 40.990002
2013-07-24 41.52
2013-07-30 41.799999
2013-08-01 57.02
2013-08-06 52.080002
2013-08-16 49.23
2013-08-23 51.259998
2013-08-27 51.669998
2013-08-29 51.98
2013-09-12 62.91
2013-09-25 68.449997
2013-09-26 68.050003
2013-10-02 71.019997
2013-10-04 69.93
2013-10-08 63.470001
2013-10-24 68
2013-10-29 67.050003
2013-11-15 64.43
2013-11-20 63.93
2013-11-22 58.200001
2013-11-25 61.919998
2013-11-26 61.540001
2013-11-29 59.959999
2013-12-04 62.619999
2013-12-09 65.529999
2013-12-10 63.099998
2013-12-31 67.919998
2014-01-02 67.660004
2014-01-06 72.660004
2014-01-07 78.419998
2014-01-16 82.360001
2014-01-17 82.209999
2014-01-23 75.989998
2014-01-27 76.089996
2014-01-28 71.949997
2014-02-04 75.230003
2014-02-05 89.459999
2014-02-06 89.410004
2014-02-10 92.779999
2014-02-12 91.970001

2014-02-14 91.739998
2014-02-18 90
2014-02-25 95.449997
2014-02-26 97.389999
2014-02-27 94.419998
2014-03-06 97.25
2014-03-12 87.370003
2014-03-17 90.110001
2014-03-20 83.43
2014-03-27 76.440002
2014-03-31 80.18
2014-04-01 75.629997
2014-04-02 70.610001
2014-04-04 66
2014-04-11 61.939999
2014-04-30 64.019997
2014-05-02 60.189999
2014-05-07 53.290001
2014-05-12 55.529999
2014-05-19 57.380001
2014-05-22 61.540001
2014-05-27 63.419998
2014-05-28 68.559998
2014-05-29 66.150002
2014-06-02 64.669998
2014-06-03 64.580002
2014-06-04 65
2014-06-11 65.839996
2014-06-17 77.010002
2014-06-23 75.830002
2014-06-27 76.68
2014-06-30 77.629997
2014-07-09 70.910004
2014-07-11 71.110001
2014-07-14 69.019997
2014-07-16 66.529999
2014-07-17 68.349998
2014-07-23 69.769997
2014-07-28 69.480003
2014-08-01 68.57
2014-08-07 68
2014-08-13 74.900002
2014-08-21 81.599998
2014-08-22 82.599998
2014-08-25 82.389999
2014-08-26 82.860001
2014-09-02 83.290001
2014-09-03 81.910004
2014-09-05 82.43
2014-09-11 81.779999

2014-09-17 76.07
2014-09-26 69.540001
2014-09-29 68.25
2014-09-30 67.110001
2014-10-01 69.07
2014-10-02 69.440002
2014-10-08 69.620003
2014-10-10 62.119999
2014-10-24 57.209999
2014-10-27 59.110001
2014-10-31 61.32
2014-11-05 58.779999
2014-11-14 58
2014-11-17 57.459999
2014-11-26 57.09
2014-12-16 51.900002
2014-12-17 52.490002
2014-12-24 52.939999
2014-12-29 54.240002
2015-01-02 52.529999
2015-01-06 52.209999
2015-01-07 53.830002
2015-01-09 54.02
2015-01-12 53.18
2015-01-14 50.119999
2015-01-15 51.389999
2015-01-22 55.189999
2015-01-28 52.93
2015-02-04 57.470001
2015-02-06 42.169998
2015-02-12 47.529999
2015-02-19 47.790001
2015-02-27 47.860001
2015-03-02 48.580002
2015-03-03 47.790001
2015-03-05 47.049999
2015-03-10 45.73
2015-03-13 46.709999
2015-03-16 47.220001
2015-03-18 45.18
2015-03-19 44.939999
2015-03-23 47.040001
2015-03-25 45.709999
2015-03-30 47.349998
2015-04-01 47.139999
2015-04-06 46.990002
2015-04-17 48.25
2015-05-01 39.610001
2015-05-05 38.220001
2015-05-06 47.009998

##	2015-05-07	49.93
##	2015-05-08	48.619999
##	2015-05-13	47.349998
##	2015-05-18	46.459999
##	2015-05-26	45.52
##	2015-05-28	47.91
##	2015-06-11	44.040001
##	2015-06-12	44
##	2015-06-16	44.599998
##	2015-06-24	44.880001
##	2015-06-26	42.470001
##	2015-07-01	38.18
##	2015-07-09	34.73
##	2015-07-13	35.990002
##	2015-07-14	35
##	2015-07-20	35.57
##	2015-07-24	33.73
##	2015-07-28	25.059999
##	2015-08-03	26.18
##	2015-08-05	25.379999
##	2015-08-19	24.01
##	2015-08-20	23.09
##	2015-08-21	22.98
##	2015-08-24	22.75
##	2015-08-26	23.98
##	2015-08-28	24.280001
##	2015-09-01	24.280001
##	2015-09-02	24.17
##	2015-09-03	24.209999
##	2015-09-17	24.75
##	2015-09-18	24.23
##	2015-09-21	23.35
##	2015-09-24	22.17
##	2015-10-09	22.74
##	2015-10-14	22.610001
##	2015-10-15	22.65
##	2015-10-22	22.559999
##	2015-10-23	24.43
##	2015-10-29	22.25
##	2015-11-02	24.120001
##	2015-11-05	25.5
##	2015-11-09	25.16
##	2015-11-10	24.98
##	2015-11-11	25.9
##	2015-11-12	27.1
##	2015-11-13	27.440001
##	2015-11-16	27.540001
##	2015-11-18	28.059999
##	2015-11-19	31.209999
##	2015-11-23	30.01

##	2015-11-25	30.18
##	2015-12-02	30.629999
##	2015-12-09	30.83
##	2015-12-11	29.58
##	2015-12-18	26.25
##	2015-12-21	27.93
##	2015-12-23	28.4
##	2016-01-04	26.620001
##	2016-01-05	25.91
##	2016-01-19	21.139999
##	2016-01-20	20.98
##	2016-01-26	21.59
##	2016-01-28	20.950001
##	2016-02-09	15.36
##	2016-02-10	15.23
##	2016-02-17	17.639999
##	2016-02-24	19
##	2016-02-25	19.860001
##	2016-03-01	21.200001
##	2016-03-03	21.620001
##	2016-03-10	20.629999
##	2016-03-14	19.92
##	2016-03-18	20.5
##	2016-03-21	20.309999
##	2016-03-22	19.299999
##	2016-03-23	19.540001
##	2016-03-24	18.969999
##	2016-04-04	19.42
##	2016-04-06	19.59
##	2016-04-08	19.49
##	2016-04-11	19.68
##	2016-04-13	20.639999
##	2016-04-19	21.15
##	2016-04-21	21.52
##	2016-04-25	21.15
##	2016-04-27	21.01
##	2016-05-05	26.5
##	2016-05-09	26.32
##	2016-05-12	25.32
##	2016-05-13	25.18
##	2016-05-17	24.98
##	2016-05-20	24.9
##	2016-05-23	25.379999
##	2016-05-25	25.66
##	2016-05-31	26.190001
##	2016-06-02	26.610001
##	2016-06-03	27.18
##	2016-06-15	26.77
##	2016-06-16	26.92
##	2016-06-17	28.440001

2016-06-21 28.299999
2016-06-22 29.73
2016-06-28 29.200001
2016-07-05 29.5
2016-07-06 30.040001
2016-07-26 30.290001
2016-08-12 37.369999
2016-08-18 38.560001
2016-08-19 37.849998
2016-08-24 37.25
2016-09-08 37.389999
2016-09-09 37.93
2016-09-12 36.900002
2016-09-14 38.139999
2016-09-15 37.950001
2016-09-20 38.52
2016-09-21 38.459999
2016-09-22 39.380001
2016-10-03 42.099998
2016-10-04 42.16
2016-10-07 41.110001
2016-10-11 38.82
2016-10-12 37.509998
2016-10-13 36.5
2016-10-17 35.799999
2016-10-18 35.080002
2016-10-19 34.349998
2016-10-21 34.48
2016-10-24 33.950001
2016-10-25 33.490002
2016-10-26 32.740002
2016-11-01 35.709999
2016-11-03 36.139999
2016-11-04 37.209999
2016-11-11 35.720001
2016-11-14 36.619999
2016-11-17 38.290001
2016-11-22 38.990002
2016-11-25 38.060001
2016-12-01 36.150002
2016-12-06 36.110001
2016-12-12 35.91
2016-12-15 35.830002
2016-12-16 35.610001
2016-12-22 38
2017-01-09 40.400002
2017-01-20 41.529999
2017-01-30 41.779999
2017-02-02 42.32
2017-02-08 41.490002

2017-02-09 35.830002
2017-02-22 33.470001
2017-02-27 33.700001
2017-03-08 34.380001
2017-03-13 33.77
2017-03-23 32.48
2017-03-27 31.809999
2017-03-31 32.630001
2017-04-06 33.23
2017-04-07 32.740002
2017-04-10 33.369999
2017-04-11 32.16
2017-04-12 32.029999
2017-04-20 33.490002
2017-04-21 33.889999
2017-04-26 36.009998
2017-05-01 35.98
2017-05-02 35.200001
2017-05-03 35.299999
2017-05-04 35.68
2017-05-08 34.700001
2017-05-22 27.780001
2017-05-24 28.07
2017-06-06 30.209999
2017-06-12 30.719999
2017-06-16 30.280001
2017-06-19 29.440001
2017-06-29 30.02
2017-07-10 31.110001
2017-07-19 32.400002
2017-07-24 32
2017-07-26 32.759998
2017-07-28 32.529999
2017-08-02 31.370001
2017-08-03 40.049999
2017-08-08 41.549999
2017-08-11 42.529999
2017-08-23 41.75
2017-08-24 42.139999
2017-08-28 42.32
2017-08-30 42.599998
2017-09-06 43.740002
2017-09-07 43.75
2017-09-11 43.849998
2017-09-12 42.950001
2017-09-13 42.91
2017-09-18 43.849998
2017-09-20 43.610001
2017-09-28 43.299999
2017-09-29 44.09

2017-10-04 46.389999
2017-10-06 45.630001
2017-10-13 43.52
2017-10-16 43.200001
2017-10-20 43.599998
2017-10-23 43.68
2017-10-24 44.02
2017-11-01 45.98
2017-11-02 46.07
2017-11-03 45.650002
2017-11-10 45.900002
2017-11-13 45.91
2017-11-17 47.18
2017-11-27 47.439999
2017-12-06 40.790001
2017-12-14 42.43
2017-12-15 43.810001
2017-12-22 42.119999
2018-01-05 43.669998
2018-01-18 42.849998
2018-01-29 43.529999
2018-02-09 38.970001
2018-02-13 41.369999
2018-02-14 41.970001
2018-02-15 41.73
2018-02-23 43.830002
2018-02-27 43.560001
2018-03-06 45.68
2018-03-07 45.57
2018-03-08 46.619999
2018-03-09 46.810001
2018-03-13 46.439999
2018-03-19 45.07
2018-03-28 41.75
2018-04-04 42.330002
2018-04-11 44
2018-04-18 44.650002
2018-04-23 43.889999
2018-05-01 45.380001
2018-05-03 45.610001
2018-05-08 47.919998
2018-05-15 44.029999
2018-05-18 46.450001
2018-05-24 42.59
2018-06-06 41.349998
2018-06-08 41.869999
2018-06-11 42.639999
2018-06-13 41.16
2018-06-14 40.93
2018-06-27 39.119999

##	2018-06-28	39.18
##	2018-07-02	39.299999
##	2018-07-06	40
##	2018-07-13	40.299999
##	2018-07-16	40.75
##	2018-07-18	39.689999
##	2018-07-20	38.639999
##	2018-07-24	38.990002
##	2018-07-25	40.18
##	2018-07-27	37.27
##	2018-08-03	38.75
##	2018-08-15	46.349998
##	2018-08-17	44.740002
##	2018-08-27	46.740002
##	2018-08-29	46.82
##	2018-09-07	45.25
##	2018-09-11	45.720001
##	2018-09-12	45.939999
##	2018-09-14	46.279999
##	2018-09-17	49.970001
##	2018-10-08	44.630001
##	2018-10-12	42.959999
##	2018-10-16	43.93
##	2018-10-19	42.990002
##	2018-11-01	43.099998
##	2018-11-08	31.93
##	2018-11-12	33.669998
##	2018-11-27	32.439999
##	2018-12-06	34.59
##	2018-12-07	35.639999
##	2018-12-20	32.099998
##	2018-12-24	34.139999
##	2018-12-26	34.950001
##	2018-12-31	34.57
##	2019-01-04	34.830002
##	2019-01-07	35.509998
##	2019-01-09	34.310001
##	2019-01-22	35.470001
##	2019-01-28	36.220001
##	2019-02-06	36.25
##	2019-02-12	38.459999
##	2019-02-13	38.189999
##	2019-02-14	39.939999
##	2019-02-21	38.540001
##	2019-02-25	37.900002
##	2019-02-28	37.130001
##	2019-03-01	36.740002
##	2019-03-07	34.740002
##	2019-03-12	34.549999
##	2019-03-14	35.099998

2019-03-15 34.880001
2019-03-19 34.599998
2019-03-20 34.889999
2019-03-21 34.360001
2019-03-22 34.709999
2019-03-27 34.68
2019-03-28 34.5
2019-03-29 35.029999
2019-04-01 35.360001
2019-04-10 35.720001
2019-04-12 35.419998
2019-04-22 38.119999
2019-04-24 39.509998
2019-04-25 39.52
2019-04-26 40.060001
2019-05-01 40.189999
2019-05-22 31.629999
2019-05-24 31.459999
2019-05-29 31.23
2019-06-07 31.950001
2019-06-19 33.139999
2019-06-26 33.950001
2019-06-27 34.18
2019-07-05 34.990002
2019-07-15 35.619999
2019-07-18 34.080002
2019-07-19 33.869999
2019-07-29 35.549999
2019-07-30 35.049999
2019-07-31 34.93
2019-08-02 33.529999
2019-08-12 34.619999
2019-08-15 33.169998
2019-08-16 32.919998
2019-08-23 32.029999
2019-08-30 33.209999
2019-09-03 32.84
2019-09-06 33.23
2019-09-10 34.599998
2019-09-11 36.52
2019-09-12 37.439999
2019-09-24 34.959999
2019-10-07 32.75
2019-10-09 32.220001
2019-10-22 33.529999
2019-10-23 33.509998
2019-10-30 34.509998
2019-11-01 34.240002
2019-11-05 32.709999
2019-11-18 34.349998

```
## 2019-11-21 35.259998
## 2019-11-27 34.68
## 2019-12-02 33.66
## 2019-12-11 33.389999
## 2019-12-12 33.549999
## 2019-12-13 33.779999
## 2019-12-16 34
## 2019-12-20 34.209999
## 2019-12-23 34.060001
## 2019-12-26 34.849998
## 2019-12-31 34.77
## 2020-01-10 36.23
## 2020-01-29 34.77
## 2020-02-04 34.66
## 2020-02-07 34.200001
## 2020-02-11 35.360001
## 2020-02-13 35.23
## 2020-02-19 34.639999
## 2020-02-20 34
## 2020-02-27 31.27
## 2020-03-02 30.59
## 2020-03-04 29.139999
## 2020-03-09 27.809999
## results 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.

```
sYELP1$Date <- row.names(sYELP1)
testingSet$Date <- row.names(testingSet)
Results_round$Date <- row.names(Results_round)

sYELP1 <- merge(testingSet, Results_round, by.x='Date', by.y='Date')
tbl <- rbind(head(sYELP1), tail(sYELP1))
tbl
```

##	Date	DayOfWeek	stockDayValue	lag1	today2lag1	decrDaysThisCycle
## 1	2012-03-16	Friday	21.74	21.75	0.9995402	3
## 2	2012-03-21	Wednesday	23.12	22.90	1.0096070	0
## 3	2012-03-23	Friday	23.18	23.22	0.9982774	1
## 4	2012-03-27	Tuesday	27.65	24.60	1.1239837	0
## 5	2012-03-29	Thursday	28.01	28.09	0.9971520	2
## 6	2012-04-02	Monday	27.12	26.89	1.0085534	3
## 599	2020-02-19	Wednesday	34.04	34.57	0.9846688	3
## 600	2020-02-20	Thursday	34.64	34.04	1.0176263	2

```
## 601 2020-02-27 Thursday 31.40 32.94 0.9532484 3
## 602 2020-03-02 Monday 31.65 31.27 1.0121522 1
## 603 2020-03-04 Wednesday 31.39 30.59 1.0261523 3
## 604 2020-03-09 Monday 26.40 28.94 0.9122322 3
## nTimesDecrDayCountsOccurs todayLessThanlag1 incrDaysThisCycle
## 1 74 1 1
## 2 485 0 2
## 3 273 1 3
## 4 485 0 3
## 5 122 1 0
## 6 74 0 1
## 599 74 1 1
## 600 122 0 1
## 601 74 1 0
## 602 273 0 1
## 603 74 0 1
## 604 74 1 1
## nTimesIncrDayCountsOccurs NextDayPrice.x RandomForest_round KNN_round
## 1 263 23 22 24
## 2 131 23 23 23
## 3 75 25 24 31
## 4 75 28 27 32
## 5 494 27 27 31
## 6 263 27 27 28
## 599 263 35 34 35
## 600 263 34 34 35
## 601 494 31 31 29
## 602 263 31 31 28
## 603 263 29 31 32
## 604 263 28 27 29
## Rpart_round GLM_round NextDayPrice.y
## 1 21 22 23
## 2 21 24 23
## 3 21 24 25
## 4 28 29 28
## 5 28 27 27
## 6 28 26 27
## 599 35 34 35
## 600 35 33 34
## 601 28 31 31
## 602 35 31 31
## 603 28 30 29
## 604 28 27 28
```

```
Results_round$RandomForest_round <-
  as.numeric(paste(Results_round$RandomForest_round))
Results_round$KNN_round <-
  as.numeric(paste(Results_round$KNN_round))
Results_round$Rpart_round <-
  as.numeric(paste(Results_round$Rpart_round))
```

```

Results_round$GLM_round <-
  as.numeric(paste(Results_round$GLM_round))
Results_round$NextDayPrice <-
  as.numeric(paste(Results_round$NextDayPrice))

Results_round$mostVoted <- ifelse(

  (Results_round$RandomForest_round==Results_round$KNN_round |
Results_round$RandomForest_round==Results_round$Rpart_round |
Results_round$RandomForest_round==Results_round$GLM_round),

  ifelse(Results_round$KNN_round==Results_round$Rpart_round |
Results_round$KNN_round==Results_round$GLM_round,
    Results_round$RandomForest_round,
    ifelse(Results_round$Rpart_round ==Results_round$GLM_round,
      Results_round$Rpart_round,
      Results_round$RandomForest_round)),

  ifelse(Results_round$KNN_round==Results_round$Rpart_round |
Results_round$KNN_round==Results_round$GLM_round,
    Results_round$KNN_round,
    ifelse(Results_round$Rpart_round==Results_round$GLM_round,
      Results_round$Rpart_round,
      Results_round$RandomForest_round)),

  ifelse(Results_round$Rpart_round>Results_round$RandomForest_round,
    Results_round$Rpart_round,
    Results_round$RandomForest_round))

)
)

sMost <- sum(Results_round$mostVoted==Results_round$NextDayPrice)
lMost <- length(Results_round$NextDayPrice)-1
accMost <- sMost/lMost
accMost

## [1] 0.455298

Results_round

##           RandomForest_round KNN_round Rpart_round GLM_round
NextDayPrice
## 2012-03-16           22.00      24.00      21.00      22.00
23
## 2012-03-21           23.00      23.00      21.00      24.00
23
## 2012-03-23           24.00      31.00      21.00      24.00
25
## 2012-03-27           27.00      32.00      28.00      29.00

```

28				
##	2012-03-29	27.00	31.00	28.00 27.00
27				
##	2012-04-02	27.00	28.00	28.00 26.00
27				
##	2012-04-12	27.00	28.00	28.00 27.00
26				
##	2012-04-13	25.00	31.00	28.00 26.00
26				
##	2012-04-19	24.00	30.00	21.00 24.00
23				
##	2012-04-24	21.00	23.00	21.00 21.00
21				
##	2012-04-25	21.00	31.00	21.00 22.00
21				
##	2012-04-26	21.00	23.00	21.00 22.00
22				
##	2012-05-04	21.00	22.00	21.00 22.00
21				
##	2012-05-11	20.00	22.00	21.00 20.00
20				
##	2012-05-22	20.00	23.00	21.00 19.00
18				
##	2012-05-29	17.00	20.00	21.00 16.00
17				
##	2012-06-20	20.00	21.00	21.00 20.00
21				
##	2012-06-25	23.00	30.00	21.00 23.00
22				
##	2012-06-26	23.00	26.00	21.00 23.00
23				
##	2012-07-03	25.00	30.00	28.00 26.00
26				
##	2012-07-09	25.00	23.00	28.00 24.00
23				
##	2012-07-11	22.00	24.00	21.00 21.00
22				
##	2012-07-12	22.00	25.00	21.00 21.00
22				
##	2012-07-18	23.00	27.00	21.00 24.00
24				
##	2012-07-23	23.00	27.00	21.00 23.00
23				
##	2012-08-03	24.00	22.00	21.00 24.00
25				
##	2012-08-07	26.00	28.00	28.00 27.00
26				
##	2012-08-08	26.00	30.00	28.00 26.00
26				
##	2012-08-22	18.00	25.00	21.00 19.00

18				
##	2012-09-12	25.00	23.00	28.00
24				25.00
##	2012-09-25	26.00	28.00	28.00
26				26.00
##	2012-09-28	27.00	27.00	28.00
28				28.00
##	2012-10-03	28.00	30.00	28.00
29				29.00
##	2012-10-05	27.00	29.00	28.00
28				27.00
##	2012-10-08	27.00	28.00	28.00
27				27.00
##	2012-10-09	27.00	26.00	28.00
26				27.00
##	2012-10-10	27.00	27.00	28.00
26				26.00
##	2012-10-11	25.00	30.00	28.00
25				25.00
##	2012-10-18	25.00	25.00	28.00
25				24.00
##	2012-10-22	24.00	23.00	21.00
24				23.00
##	2012-10-23	24.00	28.00	21.00
26				24.00
##	2012-10-25	23.00	22.00	21.00
23				23.00
##	2012-11-05	19.00	24.00	21.00
18				18.00
##	2012-11-07	19.00	24.00	21.00
18				17.00
##	2012-11-12	17.00	28.00	21.00
17				17.00
##	2012-11-26	19.00	28.00	21.00
20				20.00
##	2012-12-05	19.00	20.00	21.00
18				18.00
##	2012-12-17	19.00	20.00	21.00
18				18.00
##	2012-12-21	19.00	28.00	21.00
18				19.00
##	2012-12-28	19.00	28.00	21.00
19				19.00
##	2012-12-31	19.00	20.00	21.00
20				20.00
##	2013-01-02	20.00	24.00	21.00
20				20.00
##	2013-01-09	21.00	24.00	21.00
22				21.00
##	2013-01-22	21.00	23.00	21.00
				21.00

20				
## 2013-01-29	21.00	22.00	21.00	20.00
20				
## 2013-02-01	20.00	23.00	21.00	20.00
20				
## 2013-02-05	21.00	23.00	21.00	22.00
22				
## 2013-02-07	22.00	24.00	21.00	22.00
22				
## 2013-02-22	22.00	23.00	21.00	22.00
22				
## 2013-02-25	21.00	23.00	21.00	21.00
21				
## 2013-02-26	22.00	23.00	21.00	22.00
22				
## 2013-02-27	22.00	22.00	21.00	23.00
22				
## 2013-03-04	23.00	28.00	21.00	23.00
23				
## 2013-03-05	23.00	24.00	21.00	22.00
23				
## 2013-03-15	25.00	24.00	28.00	25.00
24				
## 2013-03-18	24.00	27.00	28.00	24.00
24				
## 2013-03-20	23.00	24.00	21.00	23.00
24				
## 2013-03-21	22.00	26.00	21.00	23.00
24				
## 2013-03-26	24.00	27.00	21.00	25.00
24				
## 2013-03-28	23.00	25.00	21.00	23.00
23				
## 2013-04-02	23.00	24.00	21.00	24.00
23				
## 2013-04-09	25.00	26.00	28.00	26.00
26				
## 2013-04-18	27.00	24.00	28.00	26.00
26				
## 2013-04-23	25.00	24.00	28.00	25.00
25				
## 2013-04-25	26.00	26.00	28.00	26.00
25				
## 2013-04-29	26.00	27.00	28.00	26.00
26				
## 2013-05-02	31.00	32.00	35.00	31.00
31				
## 2013-05-06	31.00	31.00	28.00	30.00
31				
## 2013-05-07	30.00	32.00	28.00	30.00

30				
##	2013-05-10	31.00	32.00	28.00 31.00
31				
##	2013-05-23	29.00	31.00	28.00 29.00
29				
##	2013-05-24	30.00	32.00	28.00 30.00
30				
##	2013-05-31	30.00	29.00	28.00 29.00
28				
##	2013-06-06	29.00	29.00	28.00 30.00
30				
##	2013-06-13	30.00	30.00	28.00 30.00
31				
##	2013-06-14	31.00	28.00	28.00 32.00
32				
##	2013-06-27	35.00	35.00	35.00 35.00
35				
##	2013-07-03	35.00	33.00	35.00 35.00
35				
##	2013-07-08	35.00	34.00	35.00 36.00
37				
##	2013-07-09	37.00	33.00	35.00 37.00
37				
##	2013-07-17	40.00	38.00	43.00 40.00
40				
##	2013-07-19	41.00	44.00	43.00 41.00
41				
##	2013-07-24	40.00	43.00	43.00 40.00
42				
##	2013-07-30	43.00	41.00	43.00 43.00
42				
##	2013-08-01	51.00	35.00	55.00 52.00
57				
##	2013-08-06	52.00	45.00	55.00 52.00
52				
##	2013-08-16	49.00	45.00	47.00 49.00
49				
##	2013-08-23	52.00	46.00	55.00 51.00
51				
##	2013-08-27	51.00	53.00	55.00 52.00
52				
##	2013-08-29	53.00	49.00	55.00 54.00
52				
##	2013-09-12	63.00	64.00	67.00 63.00
63				
##	2013-09-25	68.00	70.00	67.00 68.00
68				
##	2013-09-26	67.00	69.00	67.00 67.00
68				
##	2013-10-02	71.00	71.00	67.00 72.00

71				
##	2013-10-04	71.00	69.00	77.00 72.00
70				
##	2013-10-08	63.00	65.00	67.00 64.00
63				
##	2013-10-24	68.00	67.00	67.00 67.00
68				
##	2013-10-29	69.00	58.00	67.00 68.00
67				
##	2013-11-15	69.00	62.00	67.00 70.00
64				
##	2013-11-20	63.00	64.00	67.00 62.00
64				
##	2013-11-22	62.00	63.00	67.00 61.00
58				
##	2013-11-25	59.00	61.00	55.00 59.00
62				
##	2013-11-26	60.00	61.00	67.00 60.00
62				
##	2013-11-29	59.00	61.00	55.00 60.00
60				
##	2013-12-04	62.00	63.00	67.00 63.00
63				
##	2013-12-09	65.00	66.00	67.00 65.00
66				
##	2013-12-10	66.00	66.00	67.00 65.00
63				
##	2013-12-31	69.00	66.00	67.00 68.00
68				
##	2014-01-02	67.00	69.00	67.00 67.00
68				
##	2014-01-06	71.00	68.00	77.00 72.00
73				
##	2014-01-07	73.00	74.00	77.00 73.00
78				
##	2014-01-16	81.00	72.00	77.00 82.00
82				
##	2014-01-17	81.00	78.00	77.00 81.00
82				
##	2014-01-23	78.00	68.00	77.00 79.00
76				
##	2014-01-27	74.00	68.00	77.00 73.00
76				
##	2014-01-28	76.00	67.00	77.00 75.00
72				
##	2014-02-04	77.00	68.00	77.00 77.00
75				
##	2014-02-05	77.00	71.00	77.00 76.00
89				
##	2014-02-06	83.00	66.00	92.00 87.00

89				
##	2014-02-10	92.00	75.00	92.00 92.00
93				
##	2014-02-12	92.00	81.00	92.00 91.00
92				
##	2014-02-14	92.00	86.00	92.00 90.00
92				
##	2014-02-18	91.00	83.00	92.00 91.00
90				
##	2014-02-25	95.00	84.00	92.00 95.00
95				
##	2014-02-26	95.00	80.00	92.00 96.00
97				
##	2014-02-27	95.00	80.00	92.00 97.00
94				
##	2014-03-06	94.00	81.00	92.00 96.00
97				
##	2014-03-12	90.00	79.00	92.00 91.00
87				
##	2014-03-17	91.00	75.00	92.00 89.00
90				
##	2014-03-20	84.00	71.00	77.00 84.00
83				
##	2014-03-27	79.00	73.00	77.00 77.00
76				
##	2014-03-31	78.00	68.00	77.00 78.00
80				
##	2014-04-01	79.00	69.00	77.00 79.00
76				
##	2014-04-02	73.00	65.00	77.00 75.00
71				
##	2014-04-04	68.00	67.00	67.00 67.00
66				
##	2014-04-11	63.00	63.00	67.00 62.00
62				
##	2014-04-30	58.00	58.00	55.00 59.00
64				
##	2014-05-02	60.00	66.00	55.00 61.00
60				
##	2014-05-07	55.00	50.00	55.00 53.00
53				
##	2014-05-12	54.00	51.00	55.00 56.00
56				
##	2014-05-19	57.00	55.00	55.00 58.00
57				
##	2014-05-22	61.00	55.00	55.00 61.00
62				
##	2014-05-27	64.00	64.00	67.00 63.00
63				
##	2014-05-28	64.00	61.00	67.00 64.00

69				
##	2014-05-29	67.00	59.00	67.00 67.00
66				
##	2014-06-02	65.00	66.00	67.00 65.00
65				
##	2014-06-03	64.00	53.00	67.00 64.00
65				
##	2014-06-04	65.00	60.00	67.00 66.00
65				
##	2014-06-11	67.00	60.00	67.00 66.00
66				
##	2014-06-17	75.00	73.00	77.00 75.00
77				
##	2014-06-23	77.00	66.00	77.00 77.00
76				
##	2014-06-27	78.00	70.00	77.00 76.00
77				
##	2014-06-30	77.00	71.00	77.00 78.00
78				
##	2014-07-09	69.00	73.00	67.00 70.00
71				
##	2014-07-11	71.00	70.00	67.00 71.00
71				
##	2014-07-14	70.00	64.00	67.00 70.00
69				
##	2014-07-16	64.00	61.00	67.00 67.00
67				
##	2014-07-17	69.00	68.00	67.00 67.00
68				
##	2014-07-23	70.00	63.00	67.00 69.00
70				
##	2014-07-28	70.00	67.00	67.00 70.00
69				
##	2014-08-01	69.00	70.00	67.00 66.00
69				
##	2014-08-07	68.00	63.00	67.00 68.00
68				
##	2014-08-13	73.00	68.00	77.00 74.00
75				
##	2014-08-21	81.00	77.00	77.00 80.00
82				
##	2014-08-22	80.00	77.00	77.00 81.00
83				
##	2014-08-25	81.00	76.00	77.00 82.00
82				
##	2014-08-26	82.00	74.00	77.00 83.00
83				
##	2014-09-02	83.00	77.00	77.00 84.00
83				
##	2014-09-03	81.00	64.00	77.00 82.00

82				
##	2014-09-05	81.00	70.00	77.00 82.00
82				
##	2014-09-11	80.00	69.00	77.00 81.00
82				
##	2014-09-17	76.00	76.00	77.00 76.00
76				
##	2014-09-26	71.00	64.00	67.00 69.00
70				
##	2014-09-29	66.00	71.00	67.00 69.00
68				
##	2014-09-30	67.00	64.00	67.00 67.00
67				
##	2014-10-01	69.00	63.00	67.00 68.00
69				
##	2014-10-02	70.00	71.00	67.00 70.00
69				
##	2014-10-08	68.00	74.00	67.00 68.00
70				
##	2014-10-10	65.00	61.00	67.00 65.00
62				
##	2014-10-24	58.00	55.00	55.00 58.00
57				
##	2014-10-27	57.00	51.00	55.00 58.00
59				
##	2014-10-31	60.00	63.00	55.00 60.00
61				
##	2014-11-05	57.00	65.00	55.00 58.00
59				
##	2014-11-14	58.00	50.00	55.00 58.00
58				
##	2014-11-17	57.00	49.00	55.00 57.00
57				
##	2014-11-26	58.00	55.00	55.00 57.00
57				
##	2014-12-16	51.00	42.00	47.00 52.00
52				
##	2014-12-17	52.00	49.00	55.00 52.00
52				
##	2014-12-24	52.00	49.00	55.00 52.00
53				
##	2014-12-29	54.00	52.00	55.00 54.00
54				
##	2015-01-02	54.00	49.00	55.00 54.00
53				
##	2015-01-06	52.00	49.00	55.00 52.00
52				
##	2015-01-07	52.00	51.00	55.00 53.00
54				
##	2015-01-09	55.00	44.00	55.00 55.00

54				
##	2015-01-12	53.00	46.00	55.00 53.00
53				
##	2015-01-14	52.00	44.00	55.00 51.00
50				
##	2015-01-15	50.00	39.00	47.00 51.00
51				
##	2015-01-22	55.00	49.00	55.00 55.00
55				
##	2015-01-28	53.00	48.00	55.00 52.00
53				
##	2015-02-04	58.00	58.00	55.00 57.00
57				
##	2015-02-06	49.00	40.00	47.00 45.00
42				
##	2015-02-12	47.00	41.00	47.00 48.00
48				
##	2015-02-19	48.00	45.00	47.00 47.00
48				
##	2015-02-27	48.00	46.00	47.00 48.00
48				
##	2015-03-02	48.00	47.00	47.00 49.00
49				
##	2015-03-03	48.00	49.00	47.00 48.00
48				
##	2015-03-05	47.00	43.00	47.00 47.00
47				
##	2015-03-10	46.00	44.00	47.00 46.00
46				
##	2015-03-13	46.00	43.00	47.00 48.00
47				
##	2015-03-16	46.00	45.00	47.00 47.00
47				
##	2015-03-18	46.00	43.00	47.00 46.00
45				
##	2015-03-19	45.00	41.00	47.00 44.00
45				
##	2015-03-23	47.00	44.00	47.00 48.00
47				
##	2015-03-25	45.00	46.00	47.00 45.00
46				
##	2015-03-30	47.00	42.00	47.00 47.00
47				
##	2015-04-01	46.00	46.00	47.00 46.00
47				
##	2015-04-06	47.00	45.00	47.00 47.00
47				
##	2015-04-17	48.00	47.00	47.00 47.00
48				
##	2015-05-01	39.00	44.00	43.00 38.00

40				
##	2015-05-05	38.00	37.00	35.00
38				38.00
##	2015-05-06	39.00	41.00	35.00
47				39.00
##	2015-05-07	47.00	35.00	47.00
50				47.00
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49				49.00
##	2015-05-13	47.00	43.00	47.00
47				47.00
##	2015-05-18	46.00	42.00	47.00
46				46.00
##	2015-05-26	45.00	43.00	47.00
46				45.00
##	2015-05-28	48.00	47.00	47.00
48				48.00
##	2015-06-11	44.00	42.00	43.00
44				44.00
##	2015-06-12	44.00	43.00	43.00
44				43.00
##	2015-06-16	44.00	43.00	43.00
45				44.00
##	2015-06-24	45.00	43.00	47.00
45				44.00
##	2015-06-26	44.00	44.00	43.00
42				43.00
##	2015-07-01	42.00	41.00	43.00
38				42.00
##	2015-07-09	34.00	37.00	35.00
35				34.00
##	2015-07-13	36.00	34.00	35.00
36				36.00
##	2015-07-14	36.00	33.00	35.00
35				36.00
##	2015-07-20	34.00	34.00	35.00
36				35.00
##	2015-07-24	34.00	32.00	35.00
34				34.00
##	2015-07-28	33.00	33.00	35.00
25				33.00
##	2015-08-03	26.00	28.00	28.00
26				27.00
##	2015-08-05	25.00	27.00	28.00
25				25.00
##	2015-08-19	25.00	29.00	28.00
24				24.00
##	2015-08-20	23.00	29.00	21.00
23				23.00
##	2015-08-21	23.00	25.00	21.00
				22.00

23				
## 2015-08-24	23.00	27.00	21.00	22.00
23				
## 2015-08-26	24.00	25.00	21.00	24.00
24				
## 2015-08-28	24.00	27.00	21.00	25.00
24				
## 2015-09-01	24.00	25.00	21.00	24.00
24				
## 2015-09-02	24.00	26.00	21.00	24.00
24				
## 2015-09-03	24.00	27.00	21.00	25.00
24				
## 2015-09-17	25.00	27.00	28.00	25.00
25				
## 2015-09-18	24.00	22.00	28.00	24.00
24				
## 2015-09-21	24.00	22.00	21.00	24.00
23				
## 2015-09-24	22.00	27.00	21.00	22.00
22				
## 2015-10-09	25.00	25.00	28.00	24.00
23				
## 2015-10-14	22.00	26.00	21.00	22.00
23				
## 2015-10-15	23.00	23.00	21.00	23.00
23				
## 2015-10-22	23.00	23.00	21.00	23.00
23				
## 2015-10-23	23.00	25.00	21.00	23.00
24				
## 2015-10-29	22.00	26.00	21.00	22.00
22				
## 2015-11-02	24.00	25.00	21.00	25.00
24				
## 2015-11-05	25.00	26.00	28.00	26.00
26				
## 2015-11-09	25.00	28.00	28.00	26.00
25				
## 2015-11-10	25.00	28.00	28.00	25.00
25				
## 2015-11-11	25.00	29.00	28.00	26.00
26				
## 2015-11-12	26.00	26.00	28.00	27.00
27				
## 2015-11-13	27.00	21.00	28.00	28.00
27				
## 2015-11-16	28.00	33.00	28.00	28.00
28				
## 2015-11-18	28.00	30.00	28.00	28.00

28				
## 2015-11-19	28.00	30.00	28.00	29.00
31				
## 2015-11-23	31.00	32.00	28.00	31.00
30				
## 2015-11-25	30.00	30.00	28.00	30.00
30				
## 2015-12-02	31.00	31.00	28.00	31.00
31				
## 2015-12-09	30.00	33.00	28.00	31.00
31				
## 2015-12-11	29.00	29.00	28.00	29.00
30				
## 2015-12-18	27.00	28.00	28.00	26.00
26				
## 2015-12-21	27.00	28.00	28.00	27.00
28				
## 2015-12-23	29.00	29.00	28.00	29.00
28				
## 2016-01-04	27.00	26.00	28.00	28.00
27				
## 2016-01-05	26.00	29.00	28.00	27.00
26				
## 2016-01-19	21.00	26.00	21.00	22.00
21				
## 2016-01-20	21.00	22.00	21.00	20.00
21				
## 2016-01-26	22.00	27.00	21.00	21.00
22				
## 2016-01-28	22.00	24.00	21.00	22.00
21				
## 2016-02-09	16.00	21.00	21.00	15.00
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18				
## 2016-02-24	19.00	24.00	21.00	19.00
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20				
## 2016-03-01	21.00	26.00	21.00	22.00
21				
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22				
## 2016-03-10	21.00	27.00	21.00	20.00
21				
## 2016-03-14	21.00	25.00	21.00	21.00
20				
## 2016-03-18	21.00	21.00	21.00	20.00

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##	2016-03-22	20.00	21.00	21.00
19				19.00
##	2016-03-23	20.00	22.00	21.00
20				19.00
##	2016-03-24	19.00	28.00	21.00
19				19.00
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19				19.00
##	2016-04-06	20.00	22.00	21.00
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19				20.00
##	2016-04-11	20.00	26.00	21.00
20				20.00
##	2016-04-13	21.00	25.00	21.00
21				21.00
##	2016-04-19	21.00	23.00	21.00
21				22.00
##	2016-04-21	22.00	22.00	21.00
22				22.00
##	2016-04-25	21.00	25.00	21.00
21				22.00
##	2016-04-27	21.00	22.00	21.00
21				20.00
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26				22.00
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26				27.00
##	2016-05-12	25.00	27.00	28.00
25				25.00
##	2016-05-13	25.00	23.00	28.00
25				25.00
##	2016-05-17	25.00	27.00	28.00
25				24.00
##	2016-05-20	25.00	24.00	28.00
25				25.00
##	2016-05-23	25.00	23.00	28.00
25				26.00
##	2016-05-25	25.00	29.00	28.00
26				26.00
##	2016-05-31	26.00	31.00	28.00
26				26.00
##	2016-06-02	27.00	26.00	28.00
27				27.00
##	2016-06-03	27.00	27.00	28.00
27				27.00
##	2016-06-15	26.00	26.00	28.00
				26.00

27				
## 2016-06-16	27.00	27.00	28.00	28.00
27				
## 2016-06-17	27.00	27.00	28.00	28.00
28				
## 2016-06-21	28.00	32.00	28.00	29.00
28				
## 2016-06-22	29.00	33.00	28.00	29.00
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29				
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30				
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39				
## 2016-08-19	38.00	34.00	35.00	38.00
38				
## 2016-08-24	37.00	35.00	35.00	37.00
37				
## 2016-09-08	38.00	37.00	35.00	37.00
37				
## 2016-09-09	37.00	38.00	35.00	37.00
38				
## 2016-09-12	38.00	38.00	35.00	37.00
37				
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38				
## 2016-09-22	39.00	37.00	35.00	40.00
39				
## 2016-10-03	43.00	43.00	43.00	43.00
42				
## 2016-10-04	43.00	41.00	43.00	43.00
42				
## 2016-10-07	41.00	41.00	43.00	41.00
41				
## 2016-10-11	39.00	38.00	35.00	39.00
39				
## 2016-10-12	39.00	39.00	35.00	38.00

38				
##	2016-10-13	37.00	34.00	35.00 37.00
36				
##	2016-10-17	37.00	37.00	35.00 35.00
36				
##	2016-10-18	35.00	36.00	35.00 35.00
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##	2016-10-19	34.00	34.00	35.00 34.00
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##	2016-10-21	33.00	36.00	35.00 33.00
34				
##	2016-10-24	34.00	36.00	35.00 33.00
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##	2016-10-25	33.00	33.00	35.00 33.00
33				
##	2016-10-26	33.00	33.00	35.00 32.00
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##	2016-11-01	33.00	34.00	35.00 33.00
36				
##	2016-11-03	36.00	34.00	35.00 37.00
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##	2016-11-04	36.00	37.00	35.00 37.00
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##	2016-11-11	36.00	36.00	35.00 36.00
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##	2016-11-14	36.00	35.00	35.00 37.00
37				
##	2016-11-17	38.00	40.00	35.00 38.00
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##	2016-11-22	39.00	36.00	35.00 39.00
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##	2016-11-25	39.00	37.00	35.00 38.00
38				
##	2016-12-01	36.00	35.00	35.00 35.00
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##	2016-12-06	36.00	36.00	35.00 36.00
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##	2016-12-12	35.00	34.00	35.00 35.00
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##	2016-12-15	36.00	38.00	35.00 36.00
36				
##	2016-12-16	36.00	35.00	35.00 36.00
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##	2016-12-22	39.00	37.00	35.00 37.00
38				
##	2017-01-09	40.00	41.00	43.00 41.00
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##	2017-01-30	42.00	43.00	43.00 42.00

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##	2017-02-02	42.00	43.00	43.00
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##	2017-02-08	42.00	37.00	43.00
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##	2017-02-09	41.00	39.00	43.00
36				40.00
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33				33.00
##	2017-02-27	34.00	34.00	35.00
34				34.00
##	2017-03-08	34.00	34.00	35.00
34				35.00
##	2017-03-13	35.00	35.00	35.00
34				35.00
##	2017-03-23	32.00	35.00	35.00
32				32.00
##	2017-03-27	32.00	36.00	35.00
32				32.00
##	2017-03-31	33.00	33.00	35.00
33				32.00
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33				33.00
##	2017-04-07	33.00	33.00	35.00
33				32.00
##	2017-04-10	33.00	34.00	35.00
33				33.00
##	2017-04-11	33.00	30.00	35.00
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32				31.00
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33				34.00
##	2017-04-21	34.00	34.00	35.00
34				34.00
##	2017-04-26	35.00	40.00	35.00
36				35.00
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36				37.00
##	2017-05-02	36.00	33.00	35.00
35				36.00
##	2017-05-03	35.00	37.00	35.00
35				36.00
##	2017-05-04	36.00	36.00	35.00
36				36.00
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##	2017-05-22	28.00	28.00	28.00
28				27.00
##	2017-05-24	28.00	32.00	28.00
				28.00

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## 2017-06-06	30.00	30.00	28.00	31.00
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## 2017-07-28	33.00	32.00	35.00	33.00
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## 2017-08-23	42.00	41.00	43.00	42.00
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## 2017-08-24	42.00	43.00	43.00	42.00
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## 2017-09-18	44.00	42.00	43.00	45.00
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##	2017-09-28	43.00	40.00	43.00 44.00
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##	2017-09-29	44.00	43.00	43.00 44.00
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43				
##	2017-10-20	44.00	43.00	43.00 44.00
44				
##	2017-10-23	44.00	39.00	43.00 45.00
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##	2017-10-24	44.00	39.00	43.00 45.00
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##	2017-11-01	45.00	44.00	47.00 45.00
46				
##	2017-11-02	46.00	45.00	47.00 46.00
46				
##	2017-11-03	46.00	46.00	47.00 45.00
46				
##	2017-11-10	46.00	44.00	47.00 46.00
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##	2017-11-13	46.00	47.00	47.00 47.00
46				
##	2017-11-17	47.00	46.00	47.00 47.00
47				
##	2017-11-27	48.00	47.00	47.00 48.00
47				
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41				
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42				
##	2017-12-15	43.00	41.00	43.00 43.00
44				
##	2017-12-22	43.00	42.00	43.00 42.00
42				
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##	2018-01-18	43.00	41.00	43.00 42.00
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44				
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39				
##	2018-02-13	39.00	39.00	35.00 40.00

41				
##	2018-02-14	42.00	44.00	43.00 42.00
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##	2018-02-15	41.00	41.00	43.00 42.00
42				
##	2018-02-23	43.00	43.00	43.00 43.00
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##	2018-02-27	43.00	42.00	43.00 43.00
44				
##	2018-03-06	45.00	43.00	43.00 45.00
46				
##	2018-03-07	45.00	41.00	47.00 45.00
46				
##	2018-03-08	46.00	43.00	47.00 47.00
47				
##	2018-03-09	47.00	45.00	47.00 47.00
47				
##	2018-03-13	46.00	44.00	47.00 47.00
46				
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45				
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42				
##	2018-04-04	43.00	46.00	43.00 43.00
42				
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44				
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45				
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##	2018-05-03	45.00	41.00	43.00 46.00
46				
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44				
##	2018-05-18	47.00	43.00	47.00 47.00
46				
##	2018-05-24	43.00	41.00	43.00 43.00
43				
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41				
##	2018-06-08	41.00	42.00	43.00 41.00
42				
##	2018-06-11	43.00	41.00	43.00 43.00
43				
##	2018-06-13	42.00	44.00	43.00 42.00

41				
##	2018-06-14	41.00	39.00	43.00
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##	2018-06-27	39.00	36.00	35.00
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##	2018-06-28	40.00	40.00	35.00
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39				40.00
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41				41.00
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##	2018-07-27	38.00	36.00	35.00
37				37.00
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##	2018-09-07	45.00	46.00	47.00
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46				46.00
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##	2018-09-17	46.00	44.00	47.00
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##	2018-10-12	43.00	43.00	43.00
43				43.00
##	2018-10-16	43.00	45.00	43.00
				44.00

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##	2018-10-19	43.00	42.00	43.00 42.00
43				
##	2018-11-01	43.00	41.00	43.00 44.00
43				
##	2018-11-08	43.00	41.00	43.00 43.00
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##	2019-01-07	35.00	35.00	35.00 36.00
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##	2019-01-09	36.00	37.00	35.00 36.00
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37				
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##	2019-07-15	36.00	35.00	35.00
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##	2019-07-18	34.00	32.00	35.00
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##	2019-07-19	34.00	32.00	35.00
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##	2019-07-29	36.00	33.00	35.00
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##	2019-07-30	35.00	38.00	35.00
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##	2019-07-31	34.00	34.00	35.00
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##	2019-09-11	35.00	40.00	35.00
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##	2019-09-12	37.00	39.00	35.00
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##	2019-10-07	33.00	33.00	35.00
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##	2019-12-02	34.00	34.00	35.00 34.00
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33				
##	2019-12-12	34.00	35.00	35.00 34.00
34				
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35				
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36				
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35				
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35				
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31				
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31				
##	2020-03-04	31.00	32.00	28.00 30.00
29				
##	2020-03-09	27.00	29.00	28.00 27.00

28

results_round

0.51

0.13

0.17

0.48

100

##

Date mostVoted

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## 2017-08-23	2017-08-23	42.00
## 2017-08-24	2017-08-24	42.00
## 2017-08-28	2017-08-28	43.00
## 2017-08-30	2017-08-30	43.00
## 2017-09-06	2017-09-06	43.00
## 2017-09-07	2017-09-07	44.00
## 2017-09-11	2017-09-11	44.00
## 2017-09-12	2017-09-12	43.00
## 2017-09-13	2017-09-13	43.00
## 2017-09-18	2017-09-18	44.00
## 2017-09-20	2017-09-20	43.00
## 2017-09-28	2017-09-28	43.00
## 2017-09-29	2017-09-29	44.00
## 2017-10-04	2017-10-04	47.00
## 2017-10-06	2017-10-06	46.00
## 2017-10-13	2017-10-13	43.00
## 2017-10-16	2017-10-16	43.00
## 2017-10-20	2017-10-20	44.00
## 2017-10-23	2017-10-23	44.00
## 2017-10-24	2017-10-24	44.00
## 2017-11-01	2017-11-01	45.00
## 2017-11-02	2017-11-02	46.00
## 2017-11-03	2017-11-03	46.00
## 2017-11-10	2017-11-10	46.00
## 2017-11-13	2017-11-13	47.00
## 2017-11-17	2017-11-17	47.00
## 2017-11-27	2017-11-27	48.00
## 2017-12-06	2017-12-06	43.00

## 2017-12-14	2017-12-14	43.00
## 2017-12-15	2017-12-15	43.00
## 2017-12-22	2017-12-22	43.00
## 2018-01-05	2018-01-05	44.00
## 2018-01-18	2018-01-18	43.00
## 2018-01-29	2018-01-29	44.00
## 2018-02-09	2018-02-09	39.00
## 2018-02-13	2018-02-13	39.00
## 2018-02-14	2018-02-14	42.00
## 2018-02-15	2018-02-15	41.00
## 2018-02-23	2018-02-23	43.00
## 2018-02-27	2018-02-27	43.00
## 2018-03-06	2018-03-06	45.00
## 2018-03-07	2018-03-07	45.00
## 2018-03-08	2018-03-08	47.00
## 2018-03-09	2018-03-09	47.00
## 2018-03-13	2018-03-13	47.00
## 2018-03-19	2018-03-19	45.00
## 2018-03-28	2018-03-28	43.00
## 2018-04-04	2018-04-04	43.00
## 2018-04-11	2018-04-11	45.00
## 2018-04-18	2018-04-18	44.00
## 2018-04-23	2018-04-23	43.00
## 2018-05-01	2018-05-01	45.00
## 2018-05-03	2018-05-03	45.00
## 2018-05-08	2018-05-08	48.00
## 2018-05-15	2018-05-15	44.00
## 2018-05-18	2018-05-18	47.00
## 2018-05-24	2018-05-24	43.00
## 2018-06-06	2018-06-06	43.00
## 2018-06-08	2018-06-08	41.00
## 2018-06-11	2018-06-11	43.00
## 2018-06-13	2018-06-13	42.00
## 2018-06-14	2018-06-14	41.00
## 2018-06-27	2018-06-27	39.00
## 2018-06-28	2018-06-28	40.00
## 2018-07-02	2018-07-02	40.00
## 2018-07-06	2018-07-06	41.00
## 2018-07-13	2018-07-13	43.00
## 2018-07-16	2018-07-16	41.00
## 2018-07-18	2018-07-18	40.00
## 2018-07-20	2018-07-20	38.00
## 2018-07-24	2018-07-24	39.00
## 2018-07-25	2018-07-25	39.00
## 2018-07-27	2018-07-27	38.00
## 2018-08-03	2018-08-03	38.00
## 2018-08-15	2018-08-15	46.00
## 2018-08-17	2018-08-17	44.00
## 2018-08-27	2018-08-27	47.00
## 2018-08-29	2018-08-29	47.00

## 2018-09-07	2018-09-07	47.00
## 2018-09-11	2018-09-11	46.00
## 2018-09-12	2018-09-12	47.00
## 2018-09-14	2018-09-14	47.00
## 2018-09-17	2018-09-17	47.00
## 2018-10-08	2018-10-08	45.00
## 2018-10-12	2018-10-12	43.00
## 2018-10-16	2018-10-16	43.00
## 2018-10-19	2018-10-19	43.00
## 2018-11-01	2018-11-01	43.00
## 2018-11-08	2018-11-08	43.00
## 2018-11-12	2018-11-12	35.00
## 2018-11-27	2018-11-27	32.00
## 2018-12-06	2018-12-06	35.00
## 2018-12-07	2018-12-07	35.00
## 2018-12-20	2018-12-20	33.00
## 2018-12-24	2018-12-24	33.00
## 2018-12-26	2018-12-26	35.00
## 2018-12-31	2018-12-31	35.00
## 2019-01-04	2019-01-04	35.00
## 2019-01-07	2019-01-07	35.00
## 2019-01-09	2019-01-09	36.00
## 2019-01-22	2019-01-22	36.00
## 2019-01-28	2019-01-28	35.00
## 2019-02-06	2019-02-06	36.00
## 2019-02-12	2019-02-12	35.00
## 2019-02-13	2019-02-13	38.00
## 2019-02-14	2019-02-14	39.00
## 2019-02-21	2019-02-21	38.00
## 2019-02-25	2019-02-25	38.00
## 2019-02-28	2019-02-28	37.00
## 2019-03-01	2019-03-01	37.00
## 2019-03-07	2019-03-07	35.00
## 2019-03-12	2019-03-12	34.00
## 2019-03-14	2019-03-14	35.00
## 2019-03-15	2019-03-15	35.00
## 2019-03-19	2019-03-19	34.00
## 2019-03-20	2019-03-20	35.00
## 2019-03-21	2019-03-21	35.00
## 2019-03-22	2019-03-22	35.00
## 2019-03-27	2019-03-27	35.00
## 2019-03-28	2019-03-28	35.00
## 2019-03-29	2019-03-29	35.00
## 2019-04-01	2019-04-01	35.00
## 2019-04-10	2019-04-10	35.00
## 2019-04-12	2019-04-12	35.00
## 2019-04-22	2019-04-22	37.00
## 2019-04-24	2019-04-24	39.00
## 2019-04-25	2019-04-25	39.00
## 2019-04-26	2019-04-26	40.00

## 2019-05-01	2019-05-01	41.00
## 2019-05-22	2019-05-22	32.00
## 2019-05-24	2019-05-24	31.00
## 2019-05-29	2019-05-29	31.00
## 2019-06-07	2019-06-07	32.00
## 2019-06-19	2019-06-19	33.00
## 2019-06-26	2019-06-26	35.00
## 2019-06-27	2019-06-27	34.00
## 2019-07-05	2019-07-05	35.00
## 2019-07-15	2019-07-15	36.00
## 2019-07-18	2019-07-18	34.00
## 2019-07-19	2019-07-19	35.00
## 2019-07-29	2019-07-29	36.00
## 2019-07-30	2019-07-30	35.00
## 2019-07-31	2019-07-31	34.00
## 2019-08-02	2019-08-02	35.00
## 2019-08-12	2019-08-12	34.00
## 2019-08-15	2019-08-15	35.00
## 2019-08-16	2019-08-16	35.00
## 2019-08-23	2019-08-23	33.00
## 2019-08-30	2019-08-30	33.00
## 2019-09-03	2019-09-03	33.00
## 2019-09-06	2019-09-06	35.00
## 2019-09-10	2019-09-10	35.00
## 2019-09-11	2019-09-11	35.00
## 2019-09-12	2019-09-12	37.00
## 2019-09-24	2019-09-24	35.00
## 2019-10-07	2019-10-07	33.00
## 2019-10-09	2019-10-09	35.00
## 2019-10-22	2019-10-22	35.00
## 2019-10-23	2019-10-23	33.00
## 2019-10-30	2019-10-30	34.00
## 2019-11-01	2019-11-01	35.00
## 2019-11-05	2019-11-05	33.00
## 2019-11-18	2019-11-18	34.00
## 2019-11-21	2019-11-21	34.00
## 2019-11-27	2019-11-27	35.00
## 2019-12-02	2019-12-02	34.00
## 2019-12-11	2019-12-11	33.00
## 2019-12-12	2019-12-12	34.00
## 2019-12-13	2019-12-13	34.00
## 2019-12-16	2019-12-16	35.00
## 2019-12-20	2019-12-20	34.00
## 2019-12-23	2019-12-23	34.00
## 2019-12-26	2019-12-26	35.00
## 2019-12-31	2019-12-31	34.00
## 2020-01-10	2020-01-10	36.00
## 2020-01-29	2020-01-29	35.00
## 2020-02-04	2020-02-04	35.00
## 2020-02-07	2020-02-07	35.00

```
## 2020-02-11      2020-02-11      35.00
## 2020-02-13      2020-02-13      36.00
## 2020-02-19      2020-02-19      34.00
## 2020-02-20      2020-02-20      35.00
## 2020-02-27      2020-02-27      31.00
## 2020-03-02      2020-03-02      31.00
## 2020-03-04      2020-03-04      31.00
## 2020-03-09      2020-03-09      27.00
## results_round results_round      0.51
```

Another modified machine could be to add a field that describes the increase or decrease the next day as whether or not the next day price increases by 2% and predict this as yes or no.

```
sYELP1 <- sYELP[,c(4,5,9,14,15,19,20,21,24,25)]
sYELP1$NextDayPrice <- lead(sYELP1$stockDayValue,1)
sYELP1 <- sYELP1[complete.cases(sYELP1$NextDayPrice),]
row.names(sYELP1) <- as.factor(sYELP1$Date)
sYELP1 <- sYELP1[, -c(1)]
sYELP1$NextDay2PercentIncrease <-
ifelse(sYELP1$NextDayPrice/sYELP1$stockDayValue >1.02, 1,0)
#sYELP1 <- sYELP1[, -10]
sYELP1$NextDay2PercentIncrease <- as.factor(sYELP1$NextDay2PercentIncrease)

set.seed(12356789)

inTrain <- createDataPartition(y=sYELP1$NextDay2PercentIncrease, p=0.7,
list=FALSE)

trainingSet <- sYELP1[inTrain,]
testingSet <- sYELP1[-inTrain,]

NextDayPrice <- testingSet$NextDayPrice

trainingSet <- trainingSet[, -10]
testingSet <- testingSet[, -10]
```

Some modifications to the data as a factor instead of numeric when copy and pasting the code above. The random forest is taking a tree approach to classification of the next day's value as 1 for increased by 2% or a 0 for didn't increase by 2%. Otherwise, the random forest would have done regression as done in previous two runs with the next day price value guess. Below is the caret random forest or you could use the random forest package. Make sure not to keep the round(,0) modification or all values will be NA. If you just run this, then no worries.

```
rfMod <- train(NextDay2PercentIncrease ~ ., method='rf', data=(trainingSet),  
              trControl=trainControl(method='cv'), number=5)
```

```
#rfMod <- randomForest(NextDay2PercentIncrease ~ ., data=trainingSet,  
  #                      importance=TRUE,  
  #                      proximity=TRUE,)
```

```
predRF <- predict(rfMod, testingSet)
```

```
predDF <- data.frame(predRF,  
  NextDay2PercentIncrease=testingSet$NextDay2PercentIncrease)
```

```
predDF
```

##	predRF	NextDay2PercentIncrease
## 1	0	0
## 2	1	1
## 3	0	1
## 4	1	0
## 5	0	0
## 6	0	0
## 7	0	0
## 8	0	0
## 9	0	0
## 10	0	0
## 11	1	0
## 12	1	0
## 13	1	0
## 14	0	0
## 15	1	0
## 16	0	0
## 17	0	0
## 18	1	1
## 19	0	0
## 20	1	1
## 21	0	0
## 22	0	0
## 23	0	1
## 24	0	0
## 25	1	1
## 26	1	1
## 27	0	0
## 28	0	0
## 29	0	0
## 30	0	1
## 31	0	0
## 32	0	0
## 33	0	0
## 34	1	0
## 35	0	0

## 36	0	1
## 37	1	0
## 38	0	0
## 39	1	0
## 40	0	0
## 41	0	0
## 42	1	0
## 43	0	0
## 44	0	0
## 45	1	0
## 46	0	0
## 47	0	0
## 48	0	0
## 49	0	0
## 50	0	0
## 51	0	0
## 52	1	0
## 53	0	0
## 54	0	0
## 55	0	0
## 56	0	0
## 57	0	1
## 58	0	0
## 59	0	0
## 60	0	0
## 61	0	0
## 62	0	0
## 63	0	0
## 64	0	0
## 65	0	0
## 66	0	0
## 67	0	0
## 68	0	1
## 69	0	0
## 70	0	0
## 71	0	0
## 72	0	0
## 73	0	0
## 74	0	0
## 75	0	1
## 76	0	0
## 77	0	0
## 78	0	1
## 79	0	0
## 80	0	1
## 81	0	0
## 82	0	0
## 83	0	0
## 84	0	0
## 85	0	1

## 86	0	0
## 87	0	0
## 88	0	1
## 89	0	1
## 90	0	0
## 91	0	1
## 92	0	0
## 93	0	1
## 94	0	0
## 95	0	0
## 96	0	1
## 97	0	0
## 98	0	0
## 99	0	0
## 100	0	1
## 101	0	0
## 102	0	1
## 103	0	0
## 104	0	1
## 105	0	0
## 106	0	0
## 107	0	0
## 108	0	0
## 109	0	1
## 110	0	1
## 111	0	0
## 112	0	0
## 113	0	0
## 114	0	1
## 115	0	0
## 116	0	1
## 117	0	0
## 118	0	0
## 119	0	1
## 120	0	0
## 121	0	0
## 122	0	1
## 123	0	1
## 124	0	0
## 125	0	0
## 126	0	0
## 127	0	0
## 128	0	1
## 129	0	0
## 130	0	0
## 131	0	0
## 132	0	1
## 133	0	0
## 134	0	0
## 135	0	1

## 136	0	0
## 137	0	1
## 138	0	0
## 139	0	0
## 140	0	1
## 141	0	0
## 142	0	0
## 143	0	0
## 144	0	0
## 145	0	0
## 146	0	0
## 147	0	0
## 148	0	0
## 149	0	1
## 150	0	1
## 151	0	0
## 152	0	0
## 153	0	0
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## 155	0	0
## 156	0	0
## 157	0	0
## 158	0	0
## 159	0	0
## 160	0	0
## 161	0	0
## 162	0	0
## 163	0	1
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## 165	0	0
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## 169	0	0
## 170	0	0
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## 172	0	0
## 173	0	0
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## 177	0	0
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## 179	0	0
## 180	0	0
## 181	0	0
## 182	1	0
## 183	0	0
## 184	0	0
## 185	0	1

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## 187	0	1
## 188	0	1
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## 190	0	0
## 191	0	0
## 192	0	1
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## 194	0	0
## 195	0	0
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## 515	0	0
## 516	0	0
## 517	0	0
## 518	0	0
## 519	0	1
## 520	0	0
## 521	0	1
## 522	0	0
## 523	0	0
## 524	0	0
## 525	0	0
## 526	0	0
## 527	0	0
## 528	0	0
## 529	0	0
## 530	0	0
## 531	0	0
## 532	0	0
## 533	0	0
## 534	0	0
## 535	0	0

## 536	0	0
## 537	0	0
## 538	0	1
## 539	0	1
## 540	0	0
## 541	0	0
## 542	0	0
## 543	0	0
## 544	0	0
## 545	0	0
## 546	0	0
## 547	0	0
## 548	0	0
## 549	0	1
## 550	0	0
## 551	0	0
## 552	0	0
## 553	0	0
## 554	0	0
## 555	0	0
## 556	0	0
## 557	0	0
## 558	0	1
## 559	0	0
## 560	0	0
## 561	0	0
## 562	0	0
## 563	0	0
## 564	0	0
## 565	0	0
## 566	0	0
## 567	0	0
## 568	0	0
## 569	0	0
## 570	0	0
## 571	0	0
## 572	0	0
## 573	0	0
## 574	0	0
## 575	0	0
## 576	0	0
## 577	0	0
## 578	0	0
## 579	0	1
## 580	0	0
## 581	0	0
## 582	0	0
## 583	0	0
## 584	0	0
## 585	0	0


```
## 586      0      1
## 587      0      0
## 588      0      0
## 589      0      0
## 590      0      0
## 591      0      0
## 592      0      0
## 593      0      0
## 594      0      0
## 595      0      0
## 596      0      0
## 597      0      0
## 598      0      0
## 599      0      0
## 600      0      0
## 601      0      0
## 602      0      0
## 603      0      0
## 604      1      1
## 605      1      1
```

```
sum <- sum(predRF==testingSet$NextDay2PercentIncrease)
length <- length(testingSet$NextDay2PercentIncrease)
accuracy_rfMod <- (sum/length)
accuracy_rfMod
```

```
## [1] 0.8
```

```
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 NextDay2PercentIncrease
## 1         0              0
## 2         1              1
## 3         0              1
## 4         1              0
## 5         0              0
## 6         0              0
## 7         0              0
## 8         0              0
## 9         0              0
## 10        0              0
## 11        1              0
## 12        1              0
## 13        1              0
## 14        0              0
```

## 15	1	0
## 16	0	0
## 17	0	0
## 18	1	1
## 19	0	0
## 20	1	1
## 21	0	0
## 22	0	0
## 23	0	1
## 24	0	0
## 25	1	1
## 26	1	1
## 27	0	0
## 28	0	0
## 29	0	0
## 30	0	1
## 31	0	0
## 32	0	0
## 33	0	0
## 34	1	0
## 35	0	0
## 36	0	1
## 37	1	0
## 38	0	0
## 39	1	0
## 40	0	0
## 41	0	0
## 42	1	0
## 43	0	0
## 44	0	0
## 45	1	0
## 46	0	0
## 47	0	0
## 48	0	0
## 49	0	0
## 50	0	0
## 51	0	0
## 52	1	0
## 53	0	0
## 54	0	0
## 55	0	0
## 56	0	0
## 57	0	1
## 58	0	0
## 59	0	0
## 60	0	0
## 61	0	0
## 62	0	0
## 63	0	0
## 64	0	0

## 65	0	0
## 66	0	0
## 67	0	0
## 68	0	1
## 69	0	0
## 70	0	0
## 71	0	0
## 72	0	0
## 73	0	0
## 74	0	0
## 75	0	1
## 76	0	0
## 77	0	0
## 78	0	1
## 79	0	0
## 80	0	1
## 81	0	0
## 82	0	0
## 83	0	0
## 84	0	0
## 85	0	1
## 86	0	0
## 87	0	0
## 88	0	1
## 89	0	1
## 90	0	0
## 91	0	1
## 92	0	0
## 93	0	1
## 94	0	0
## 95	0	0
## 96	0	1
## 97	0	0
## 98	0	0
## 99	0	0
## 100	0	1
## 101	0	0
## 102	0	1
## 103	0	0
## 104	0	1
## 105	0	0
## 106	0	0
## 107	0	0
## 108	0	0
## 109	0	1
## 110	0	1
## 111	0	0
## 112	0	0
## 113	0	0
## 114	0	1

## 115	0	0
## 116	0	1
## 117	0	0
## 118	0	0
## 119	0	1
## 120	0	0
## 121	0	0
## 122	0	1
## 123	0	1
## 124	0	0
## 125	0	0
## 126	0	0
## 127	0	0
## 128	0	1
## 129	0	0
## 130	0	0
## 131	0	0
## 132	0	1
## 133	0	0
## 134	0	0
## 135	0	1
## 136	0	0
## 137	0	1
## 138	0	0
## 139	0	0
## 140	0	1
## 141	0	0
## 142	0	0
## 143	0	0
## 144	0	0
## 145	0	0
## 146	0	0
## 147	0	0
## 148	0	0
## 149	0	1
## 150	0	1
## 151	0	0
## 152	0	0
## 153	0	0
## 154	0	0
## 155	0	0
## 156	0	0
## 157	0	0
## 158	0	0
## 159	0	0
## 160	0	0
## 161	0	0
## 162	0	0
## 163	0	1
## 164	0	0

## 165	0	0
## 166	0	1
## 167	0	0
## 168	0	1
## 169	0	0
## 170	0	0
## 171	0	0
## 172	0	0
## 173	0	0
## 174	0	0
## 175	0	0
## 176	0	0
## 177	0	0
## 178	0	0
## 179	0	0
## 180	0	0
## 181	0	0
## 182	1	0
## 183	0	0
## 184	0	0
## 185	0	1
## 186	0	0
## 187	0	1
## 188	0	1
## 189	0	0
## 190	0	0
## 191	0	0
## 192	0	1
## 193	0	0
## 194	0	0
## 195	0	0
## 196	0	0
## 197	0	1
## 198	0	0
## 199	0	0
## 200	0	0
## 201	0	0
## 202	0	1
## 203	0	0
## 204	0	0
## 205	0	1
## 206	0	0
## 207	0	0
## 208	0	1
## 209	0	0
## 210	0	0
## 211	0	0
## 212	0	0
## 213	0	0
## 214	0	0

## 215	0	1
## 216	0	1
## 217	0	0
## 218	0	0
## 219	0	0
## 220	0	0
## 221	0	1
## 222	0	0
## 223	0	1
## 224	0	0
## 225	0	0
## 226	0	0
## 227	0	1
## 228	0	0
## 229	0	0
## 230	0	1
## 231	0	0
## 232	0	0
## 233	0	1
## 234	0	0
## 235	0	0
## 236	0	0
## 237	0	0
## 238	0	0
## 239	0	0
## 240	0	0
## 241	0	0
## 242	0	0
## 243	0	0
## 244	0	0
## 245	0	0
## 246	0	0
## 247	0	1
## 248	0	0
## 249	0	0
## 250	0	1
## 251	0	0
## 252	0	0
## 253	0	0
## 254	0	0
## 255	0	0
## 256	0	0
## 257	0	0
## 258	1	1
## 259	0	0
## 260	0	0
## 261	0	1
## 262	0	0
## 263	0	1
## 264	0	0

## 265	0	1
## 266	0	0
## 267	0	0
## 268	0	1
## 269	0	0
## 270	0	0
## 271	0	0
## 272	0	0
## 273	0	0
## 274	0	0
## 275	0	0
## 276	0	1
## 277	0	0
## 278	0	0
## 279	0	0
## 280	0	0
## 281	0	0
## 282	1	0
## 283	0	0
## 284	0	0
## 285	0	0
## 286	0	0
## 287	0	0
## 288	1	1
## 289	1	1
## 290	1	1
## 291	0	0
## 292	0	0
## 293	0	1
## 294	0	0
## 295	0	1
## 296	0	0
## 297	0	1
## 298	0	0
## 299	0	1
## 300	0	0
## 301	1	0
## 302	0	0
## 303	0	1
## 304	0	0
## 305	0	0
## 306	0	0
## 307	0	0
## 308	0	0
## 309	1	1
## 310	0	0
## 311	0	0
## 312	0	0
## 313	0	0
## 314	0	1

## 315	0	1
## 316	0	0
## 317	0	0
## 318	0	0
## 319	0	1
## 320	0	1
## 321	0	0
## 322	0	0
## 323	0	0
## 324	0	0
## 325	0	0
## 326	0	1
## 327	0	1
## 328	0	0
## 329	0	0
## 330	0	1
## 331	0	1
## 332	0	0
## 333	0	1
## 334	0	0
## 335	0	0
## 336	0	0
## 337	0	1
## 338	0	0
## 339	0	0
## 340	0	0
## 341	0	0
## 342	0	0
## 343	0	0
## 344	0	0
## 345	0	0
## 346	0	0
## 347	0	1
## 348	0	0
## 349	0	1
## 350	0	0
## 351	0	1
## 352	0	1
## 353	0	0
## 354	0	0
## 355	0	0
## 356	0	0
## 357	0	0
## 358	0	0
## 359	0	1
## 360	0	1
## 361	0	0
## 362	0	0
## 363	0	0
## 364	0	0

## 365	0	0
## 366	0	0
## 367	0	0
## 368	0	0
## 369	0	0
## 370	0	0
## 371	0	0
## 372	0	0
## 373	0	0
## 374	0	0
## 375	0	0
## 376	0	0
## 377	0	1
## 378	0	0
## 379	0	0
## 380	0	0
## 381	0	0
## 382	1	1
## 383	0	0
## 384	0	1
## 385	0	1
## 386	0	0
## 387	0	1
## 388	0	0
## 389	0	0
## 390	0	0
## 391	0	1
## 392	0	0
## 393	0	1
## 394	0	0
## 395	0	0
## 396	0	1
## 397	0	0
## 398	0	0
## 399	0	0
## 400	0	0
## 401	0	0
## 402	0	0
## 403	0	0
## 404	0	0
## 405	0	0
## 406	0	0
## 407	0	0
## 408	0	0
## 409	0	0
## 410	0	0
## 411	0	0
## 412	0	1
## 413	0	0
## 414	0	1

## 415	0	0
## 416	0	0
## 417	0	0
## 418	0	0
## 419	0	0
## 420	0	0
## 421	0	0
## 422	0	0
## 423	0	0
## 424	0	0
## 425	0	1
## 426	0	0
## 427	0	0
## 428	0	0
## 429	0	0
## 430	0	0
## 431	0	0
## 432	0	0
## 433	0	0
## 434	0	0
## 435	0	1
## 436	0	0
## 437	0	0
## 438	0	0
## 439	0	0
## 440	0	0
## 441	0	0
## 442	0	0
## 443	0	0
## 444	0	0
## 445	0	0
## 446	0	0
## 447	0	0
## 448	0	0
## 449	0	1
## 450	0	0
## 451	0	0
## 452	0	0
## 453	0	0
## 454	0	0
## 455	0	0
## 456	0	0
## 457	0	0
## 458	0	0
## 459	0	0
## 460	0	0
## 461	0	0
## 462	0	0
## 463	0	1
## 464	0	1

## 465	0	0
## 466	0	0
## 467	0	0
## 468	0	0
## 469	0	0
## 470	0	0
## 471	0	0
## 472	0	0
## 473	0	0
## 474	0	0
## 475	0	0
## 476	0	0
## 477	0	1
## 478	0	0
## 479	0	0
## 480	0	0
## 481	0	0
## 482	0	0
## 483	0	0
## 484	0	1
## 485	0	0
## 486	0	0
## 487	0	0
## 488	0	0
## 489	0	0
## 490	0	0
## 491	0	0
## 492	0	1
## 493	0	0
## 494	0	0
## 495	0	0
## 496	0	0
## 497	0	0
## 498	0	0
## 499	0	1
## 500	0	0
## 501	0	0
## 502	0	1
## 503	0	1
## 504	0	0
## 505	0	0
## 506	0	0
## 507	0	0
## 508	0	0
## 509	0	1
## 510	0	0
## 511	0	0
## 512	0	0
## 513	0	0
## 514	0	0

## 515	0	0
## 516	0	0
## 517	0	0
## 518	0	0
## 519	0	1
## 520	0	0
## 521	0	1
## 522	0	0
## 523	0	0
## 524	0	0
## 525	0	0
## 526	0	0
## 527	0	0
## 528	0	0
## 529	0	0
## 530	0	0
## 531	0	0
## 532	0	0
## 533	0	0
## 534	0	0
## 535	0	0
## 536	0	0
## 537	0	0
## 538	0	1
## 539	0	1
## 540	0	0
## 541	0	0
## 542	0	0
## 543	0	0
## 544	0	0
## 545	0	0
## 546	0	0
## 547	0	0
## 548	0	0
## 549	0	1
## 550	0	0
## 551	0	0
## 552	0	0
## 553	0	0
## 554	0	0
## 555	0	0
## 556	0	0
## 557	0	0
## 558	0	1
## 559	0	0
## 560	0	0
## 561	0	0
## 562	0	0
## 563	0	0
## 564	0	0

## 565	0	0
## 566	0	0
## 567	0	0
## 568	0	0
## 569	0	0
## 570	0	0
## 571	0	0
## 572	0	0
## 573	0	0
## 574	0	0
## 575	0	0
## 576	0	0
## 577	0	0
## 578	0	0
## 579	0	1
## 580	0	0
## 581	0	0
## 582	0	0
## 583	0	0
## 584	0	0
## 585	0	0
## 586	0	1
## 587	0	0
## 588	0	0
## 589	0	0
## 590	0	0
## 591	0	0
## 592	0	0
## 593	0	0
## 594	0	0
## 595	0	0
## 596	0	0
## 597	0	0
## 598	0	0
## 599	0	0
## 600	0	0
## 601	0	0
## 602	0	0
## 603	0	0
## 604	1	1
## 605	1	1
## results	0.8	100

From the above, 80% is not bad. You could run this program just using the random forest for if the next day value will increase by 2% and be right 4 out of 5 days. Lets see the rest using the caret package for the classification. The metric was changed to 'Accuracy' or 'Kappa' to use the train() of the caret package to classify instead of regress the features on the target as was done earlier.

```

knnMod <- train(NextDay2PercentIncrease ~ .,
                 method='knn', preProcess=c('center', 'scale'),
                 tuneLength=10, metric='Accuracy',
                 trControl=trainControl(method='cv'), data=trainingSet)

rpartMod <- train(NextDay2PercentIncrease ~ .,
                  method='rpart', tuneLength=9, metric='Accuracy',
                  data=trainingSet)

glmMod <- train(NextDay2PercentIncrease ~ ., metric='Kappa',
                method='glm', data=trainingSet)

predKNN <- predict(knnMod, testingSet)
predKNN

## [1] 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0 1 1
## [38] 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 1 0 0 0 1 1 0 1 0 1 0 0 0 0 0 1 0 0 1
0 0 1
## [75] 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0 0 0
## [112] 0 0 0 0 1 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [149] 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
0 0 0
## [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [260] 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0
0 0 0
## [297] 0 0 0 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [334] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [371] 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0
0 0 0
## [408] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0 0 0
## [445] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [482] 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [519] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [556] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [593] 0 0 0 0 0 0 0 0 0 0 0 0 1
## Levels: 0 1

```

```
predRPART <- predict(rpartMod, testingSet)
predRPART
```

```
##      [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
##    [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
##   [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
##  [112] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [260] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [297] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [334] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [371] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [408] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [445] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [482] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [519] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [556] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [593] 0 0 0 0 0 0 0 0 0 0 0 0 0
## Levels: 0 1
```

```
predGLM <- predict(glmMod, testingSet)
predGLM
```

```
## [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 1 0 0 0 1 0 0 0 0 0 0 0 1
0 0 1
## [38] 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [75] 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0
0 0 0
## [112] 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [149] 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```

0 0 0
## [186] 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [223] 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [260] 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0
0 0 0
## [297] 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 1
0 0 0
## [334] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0
0 0 0
## [371] 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [408] 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
0 0 1
## [445] 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0 0 0
## [482] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
0 0 0
## [519] 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0
0 0 0
## [556] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
## [593] 0 0 0 0 0 0 0 0 0 0 0 0 0
## Levels: 0 1

```

```

length=length(testingSet$NextDay2PercentIncrease)
length

```

```
## [1] 605
```

```

sumKNN <- sum(predKNN==testingSet$NextDay2PercentIncrease)
sumRPart <- sum(predRPart==testingSet$NextDay2PercentIncrease)
sumKNN

```

```
## [1] 487
```

```
sumRPart
```

```
## [1] 485
```

```

sumGLM <- sum(predGLM==testingSet$NextDay2PercentIncrease)
sumGLM

```

```
## [1] 471
```

```

accuracy_KNN <- sumKNN/length
accuracy_RPART <- sumRPart/length
accuracy_KNN

```

```
## [1] 0.8049587
```



```

accuracy_RPART

## [1] 0.8016529

accuracy_GLM <- sumGLM/length
accuracy_GLM

## [1] 0.7785124

predDF2 <- data.frame(predRF,predKNN,predRPART,predGLM,

NextDay2PercentIncrease=testingSet$NextDay2PercentIncrease)
colnames(predDF2) <-
c('RandomForest', 'KNN', 'Rpart', 'GLM', 'NextDay2PercentIncrease')

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',
                      'NextDay2PercentIncrease')
Results <- rbind(predDF2, results)
Results

##           RandomForest KNN Rpart  GLM NextDay2PercentIncrease
## 1                0    0    0    0                0
## 2                1    0    0    0                1
## 3                0    0    0    0                1
## 4                1    0    0    0                0
## 5                0    0    0    0                0
## 6                0    0    0    0                0
## 7                0    0    0    0                0
## 8                0    0    0    0                0
## 9                0    0    0    0                0
## 10               0    0    0    0                0
## 11               1    1    0    0                0
## 12               1    1    0    0                0
## 13               1    1    0    1                0
## 14               0    0    0    0                0
## 15               1    0    0    0                0
## 16               0    0    0    0                0
## 17               0    0    0    0                0
## 18               1    1    0    0                1
## 19               0    0    0    0                0
## 20               1    0    0    1                1
## 21               0    0    0    0                0
## 22               0    0    0    1                0

```

## 23	0	0	0	0	1
## 24	0	0	0	0	0
## 25	1	1	0	0	1
## 26	1	0	0	1	1
## 27	0	0	0	0	0
## 28	0	0	0	0	0
## 29	0	0	0	0	0
## 30	0	0	0	0	1
## 31	0	0	0	0	0
## 32	0	0	0	0	0
## 33	0	0	0	0	0
## 34	1	0	0	1	0
## 35	0	0	0	0	0
## 36	0	1	0	0	1
## 37	1	1	0	1	0
## 38	0	0	0	0	0
## 39	1	0	0	0	0
## 40	0	0	0	0	0
## 41	0	0	0	0	0
## 42	1	0	0	0	0
## 43	0	0	0	0	0
## 44	0	0	0	0	0
## 45	1	0	0	1	0
## 46	0	1	0	0	0
## 47	0	0	0	0	0
## 48	0	0	0	0	0
## 49	0	1	0	0	0
## 50	0	0	0	0	0
## 51	0	0	0	0	0
## 52	1	0	0	0	0
## 53	0	1	0	0	0
## 54	0	0	0	0	0
## 55	0	0	0	0	0
## 56	0	0	0	0	0
## 57	0	1	0	0	1
## 58	0	1	0	0	0
## 59	0	0	0	0	0
## 60	0	1	0	0	0
## 61	0	0	0	0	0
## 62	0	1	0	0	0
## 63	0	0	0	0	0
## 64	0	0	0	0	0
## 65	0	0	0	0	0
## 66	0	0	0	0	0
## 67	0	0	0	0	0
## 68	0	1	0	0	1
## 69	0	0	0	0	0
## 70	0	0	0	0	0
## 71	0	1	0	0	0
## 72	0	0	0	0	0

## 73	0	0	0	0	0
## 74	0	1	0	0	0
## 75	0	1	0	0	1
## 76	0	0	0	0	0
## 77	0	0	0	0	0
## 78	0	1	0	0	1
## 79	0	0	0	0	0
## 80	0	0	0	0	1
## 81	0	0	0	0	0
## 82	0	0	0	1	0
## 83	0	0	0	0	0
## 84	0	0	0	0	0
## 85	0	0	0	1	1
## 86	0	0	0	0	0
## 87	0	0	0	0	0
## 88	0	0	0	0	1
## 89	0	0	0	0	1
## 90	0	0	0	0	0
## 91	0	0	0	0	1
## 92	0	0	0	0	0
## 93	0	0	0	0	1
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## 95	0	0	0	0	0
## 96	0	0	0	0	1
## 97	0	0	0	0	0
## 98	0	0	0	0	0
## 99	0	0	0	0	0
## 100	0	1	0	0	1
## 101	0	0	0	0	0
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## 103	0	0	0	1	0
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## 105	0	0	0	0	0
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## 109	0	0	0	0	1
## 110	0	0	0	0	1
## 111	0	0	0	0	0
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## 113	0	0	0	0	0
## 114	0	0	0	0	1
## 115	0	0	0	0	0
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## 117	0	0	0	0	0
## 118	0	0	0	0	0
## 119	0	1	0	0	1
## 120	0	0	0	0	0
## 121	0	0	0	1	0
## 122	0	0	0	0	1

## 123	0	1	0	0	1
## 124	0	0	0	0	0
## 125	0	0	0	0	0
## 126	0	0	0	0	0
## 127	0	0	0	0	0
## 128	0	0	0	0	1
## 129	0	0	0	0	0
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## 131	0	0	0	0	0
## 132	0	0	0	0	1
## 133	0	0	0	0	0
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## 135	0	0	0	0	1
## 136	0	0	0	0	0
## 137	0	0	0	0	1
## 138	0	0	0	0	0
## 139	0	0	0	0	0
## 140	0	0	0	0	1
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## 144	0	0	0	0	0
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## 149	0	1	0	0	1
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## 153	0	0	0	0	0
## 154	0	0	0	0	0
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## 156	0	0	0	0	0
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## 175	0	0	0	0	0
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## 189	0	0	0	0	0
## 190	0	0	0	1	0
## 191	0	0	0	1	0
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## 200	0	0	0	0	0
## 201	0	0	0	0	0
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## 359	0	0	0	0	1
## 360	0	0	0	1	1
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## 364	0	0	0	0	0
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## 366	0	0	0	0	0
## 367	0	0	0	0	0
## 368	0	0	0	0	0
## 369	0	0	0	0	0
## 370	0	0	0	0	0
## 371	0	0	0	0	0
## 372	0	0	0	0	0

## 373	0	1	0	0	0
## 374	0	0	0	0	0
## 375	0	0	0	0	0
## 376	0	0	0	0	0
## 377	0	0	0	0	1
## 378	0	0	0	1	0
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## 424	0	0	0	0	0
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## 470	0	0	0	0	0
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## 478	0	0	0	0	0
## 479	0	0	0	0	0
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## 482	0	0	0	0	0
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## 488	0	0	0	0	0
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## 490	0	0	0	0	0
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## 492	0	1	0	0	1
## 493	0	0	0	0	0
## 494	0	0	0	0	0
## 495	0	0	0	0	0
## 496	0	0	0	0	0
## 497	0	0	0	0	0
## 498	0	0	0	0	0
## 499	0	0	0	0	1
## 500	0	0	0	0	0
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## 503	0	0	0	0	1
## 504	0	0	0	1	0
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## 513	0	0	0	0	0
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## 518	0	0	0	0	0
## 519	0	0	0	0	1
## 520	0	0	0	0	0
## 521	0	0	0	1	1
## 522	0	0	0	0	0

## 523	0	0	0	0	0
## 524	0	0	0	0	0
## 525	0	0	0	0	0
## 526	0	0	0	0	0
## 527	0	0	0	0	0
## 528	0	0	0	0	0
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## 531	0	0	0	0	0
## 532	0	0	0	0	0
## 533	0	0	0	0	0
## 534	0	0	0	0	0
## 535	0	0	0	1	0
## 536	0	0	0	0	0
## 537	0	0	0	0	0
## 538	0	0	0	0	1
## 539	0	0	0	0	1
## 540	0	0	0	0	0
## 541	0	0	0	0	0
## 542	0	0	0	0	0
## 543	0	0	0	0	0
## 544	0	0	0	0	0
## 545	0	0	0	0	0
## 546	0	0	0	0	0
## 547	0	0	0	0	0
## 548	0	0	0	1	0
## 549	0	0	0	0	1
## 550	0	0	0	0	0
## 551	0	0	0	0	0
## 552	0	0	0	0	0
## 553	0	0	0	0	0
## 554	0	0	0	0	0
## 555	0	0	0	0	0
## 556	0	0	0	0	0
## 557	0	0	0	0	0
## 558	0	0	0	0	1
## 559	0	0	0	0	0
## 560	0	0	0	0	0
## 561	0	0	0	0	0
## 562	0	0	0	0	0
## 563	0	0	0	0	0
## 564	0	0	0	0	0
## 565	0	0	0	0	0
## 566	0	0	0	0	0
## 567	0	0	0	0	0
## 568	0	0	0	0	0
## 569	0	0	0	0	0
## 570	0	0	0	0	0
## 571	0	1	0	0	0
## 572	0	0	0	0	0

## 573	0	0	0	0	0
## 574	0	0	0	0	0
## 575	0	0	0	0	0
## 576	0	0	0	0	0
## 577	0	0	0	0	0
## 578	0	0	0	0	0
## 579	0	0	0	0	1
## 580	0	0	0	0	0
## 581	0	0	0	0	0
## 582	0	0	0	0	0
## 583	0	0	0	0	0
## 584	0	0	0	0	0
## 585	0	0	0	0	0
## 586	0	0	0	0	1
## 587	0	0	0	0	0
## 588	0	0	0	0	0
## 589	0	0	0	0	0
## 590	0	0	0	0	0
## 591	0	0	0	0	0
## 592	0	0	0	0	0
## 593	0	0	0	0	0
## 594	0	0	0	0	0
## 595	0	0	0	0	0
## 596	0	0	0	0	0
## 597	0	0	0	0	0
## 598	0	0	0	0	0
## 599	0	0	0	0	0
## 600	0	0	0	0	0
## 601	0	0	0	0	0
## 602	0	0	0	0	0
## 603	0	0	0	0	0
## 604	1	0	0	0	1
## 605	1	1	0	0	1
## results	0.8	0.8	0.8	0.78	100

Lets now align these predicted values to the subset for the stock YELP made earlier.

```
sYELP1$Date <- row.names(sYELP1)
testingSet$Date <- row.names(testingSet)
predDF2$Date <- row.names(testingSet)

sYELP1 <- merge(testingSet,predDF2, by.x='Date', by.y='Date')
tbl <- rbind(head(sYELP1),tail(sYELP1))
tbl
```

##	Date	DayOfWeek	stockDayValue	lag1	today2lag1	decrDaysThisCycle
## 1	2012-03-06	Tuesday	20.50	20.99	0.9766556	4
## 2	2012-03-09	Friday	19.80	20.00	0.9899999	4
## 3	2012-03-16	Friday	21.74	21.75	0.9995402	3
## 4	2012-03-21	Wednesday	23.12	22.90	1.0096070	0

## 5	2012-03-22	Thursday	23.22	23.12	1.0043252		1
## 6	2012-03-28	Wednesday	28.09	27.65	1.0159132		2
## 600	2020-02-21	Friday	34.00	34.64	0.9815243		2
## 601	2020-02-26	Wednesday	32.94	33.51	0.9829902		3
## 602	2020-03-02	Monday	31.65	31.27	1.0121522		1
## 603	2020-03-05	Thursday	29.14	31.39	0.9283211		3
## 604	2020-03-09	Monday	26.40	28.94	0.9122322		3
## 605	2020-03-12	Thursday	21.46	24.00	0.8941666		2
##	nTimesDecrDayCountsOccurs todayLessThanlag1 incrDaysThisCycle						
## 1		25		1		0	
## 2		25		1		2	
## 3		74		1		1	
## 4		485		0		2	
## 5		273		0		2	
## 6		122		0		3	
## 600		122		1		0	
## 601		74		1		0	
## 602		273		0		1	
## 603		74		1		0	
## 604		74		1		1	
## 605		122		1		1	
##	nTimesIncrDayCountsOccurs NextDay2PercentIncrease.x RandomForest KNN						
Rpart							
## 1		494		0		0	0
0							
## 2		131		1		1	0
0							
## 3		263		1		0	0
0							
## 4		131		0		1	0
0							
## 5		131		0		0	0
0							
## 6		75		0		0	0
0							
## 600		494		0		0	0
0							
## 601		494		0		0	0
0							
## 602		263		0		0	0
0							
## 603		494		0		0	0
0							
## 604		263		1		1	0
0							
## 605		263		1		1	1
0							
##	GLM NextDay2PercentIncrease.y						
## 1	0			0			
## 2	0			1			

```

## 3      0      1
## 4      0      0
## 5      0      0
## 6      0      0
## 600    0      0
## 601    0      0
## 602    0      0
## 603    0      0
## 604    0      1
## 605    0      1

sYELP2 <- sYELP1

sYELP2$RandomForest <- as.numeric(paste(sYELP2$RandomForest))
sYELP2$Rpart <- as.numeric(paste(sYELP2$Rpart))
sYELP2$GLM <- as.numeric(paste(sYELP2$GLM))
sYELP2$NextDay2PercentIncrease.y <-
  as.numeric(paste(sYELP2$NextDay2PercentIncrease.y))
sYELP2$KNN <- as.numeric(paste(sYELP2$KNN))

sYELP2$mostVoted <- ifelse(rowSums(sYELP2[,12:15])>=2,1,0)

sMost <- sum(sYELP2$mostVoted==sYELP2$NextDay2PercentIncrease.y)
lMost <- length(sYELP2$NextDay2PercentIncrease.y)
accMost <- sMost/lMost
results <- as.data.frame(c(round(accuracy_rfMod,2),
  round(accuracy_KNN,2),
  round(accuracy_RPART,2),
  round(accuracy_GLM,2),
  round(accMost,2),
  round(100,2)))
colnames(results) <- 'Results'
row.names(results) <- c('RandomForest','KNN','Rpart','GLM','mostVoted',
  'NextDay2PercentIncrease')

results

##
## Results
## RandomForest      0.80
## KNN                0.80
## Rpart              0.80
## GLM                0.78
## mostVoted          0.80
## NextDay2PercentIncrease 100.00

```

The above accuracy measures for random forest, recursive partitioning trees, k-nearest neighbors, and generalized linear models show that 78-80% of the time the next day can be predicted as either having a two percent increase or not. The following is the table of the first 30 predicted results on the testing set of 605 samples. Also, add back in the

NextDayPrice extracted earlier so the results weren't dependent on the next day price when predicting whether the next day would be increased by 2%.

```
sYELP2$NextDayPrice <- NextDayPrice
head(sYELP2,30)
```

##	Date	DayOfWeek	stockDayValue	lag1	today2lag1	decrDaysThisCycle
## 1	2012-03-06	Tuesday	20.50	20.99	0.9766556	4
## 2	2012-03-09	Friday	19.80	20.00	0.9899999	4
## 3	2012-03-16	Friday	21.74	21.75	0.9995402	3
## 4	2012-03-21	Wednesday	23.12	22.90	1.0096070	0
## 5	2012-03-22	Thursday	23.22	23.12	1.0043252	1
## 6	2012-03-28	Wednesday	28.09	27.65	1.0159132	2
## 7	2012-04-10	Tuesday	25.81	25.22	1.0233941	1
## 8	2012-04-18	Wednesday	24.99	25.57	0.9773172	8
## 9	2012-04-23	Monday	22.27	23.10	0.9640693	8
## 10	2012-05-02	Wednesday	23.16	22.57	1.0261409	1
## 11	2012-05-08	Tuesday	20.81	21.41	0.9719757	1
## 12	2012-05-10	Thursday	20.05	20.98	0.9556720	1
## 13	2012-05-22	Tuesday	18.00	19.30	0.9326425	1
## 14	2012-05-25	Friday	18.19	18.89	0.9629435	3
## 15	2012-05-30	Wednesday	16.61	17.07	0.9730522	3
## 16	2012-05-31	Thursday	16.71	16.61	1.0060203	3
## 17	2012-06-04	Monday	15.22	15.69	0.9700446	3
## 18	2012-06-06	Wednesday	16.46	15.22	1.0814717	0
## 19	2012-06-08	Friday	19.64	17.52	1.1210045	1
## 20	2012-06-11	Monday	18.85	19.64	0.9597760	1
## 21	2012-06-18	Monday	21.15	21.13	1.0009466	0
## 22	2012-06-28	Thursday	22.51	22.79	0.9877139	1
## 23	2012-07-03	Tuesday	24.72	23.74	1.0412805	0
## 24	2012-07-12	Thursday	22.14	21.36	1.0365168	2
## 25	2012-07-16	Monday	21.43	21.64	0.9902958	2
## 26	2012-07-18	Wednesday	22.70	23.02	0.9860991	1
## 27	2012-07-20	Friday	24.05	24.00	1.0020833	5
## 28	2012-07-24	Tuesday	22.51	23.29	0.9665092	5
## 29	2012-07-31	Tuesday	19.96	20.62	0.9679921	2
## 30	2012-08-02	Thursday	22.00	18.82	1.1689692	0
##	nTimesDecrDayCountsOccurs		todayLessThanlag1		incrDaysThisCycle	
## 1	25		1		0	
## 2	25		1		2	
## 3	74		1		1	
## 4	485		0		2	
## 5	273		0		2	
## 6	122		0		3	
## 7	273		0		2	
## 8	3		1		0	
## 9	3		1		0	
## 10	273		0		1	
## 11	273		1		1	
## 12	273		1		1	

## 13	273	1	2	
## 14	74	1	0	
## 15	74	1	1	
## 16	74	0	1	
## 17	74	1	0	
## 18	485	0	3	
## 19	273	0	3	
## 20	273	1	6	
## 21	485	0	6	
## 22	273	1	4	
## 23	485	0	4	
## 24	122	0	1	
## 25	122	1	1	
## 26	273	1	2	
## 27	10	0	2	
## 28	10	1	0	
## 29	122	1	0	
## 30	485	0	5	
##	nTimesIncrDayCountsOccurs	NextDay2PercentIncrease.x	RandomForest	KNN
Rpart				
## 1	494	0	0	0
0				
## 2	131	1	1	0
0				
## 3	263	1	0	0
0				
## 4	131	0	1	0
0				
## 5	131	0	0	0
0				
## 6	75	0	0	0
0				
## 7	131	0	0	0
0				
## 8	494	0	0	0
0				
## 9	494	0	0	0
0				
## 10	263	0	0	0
0				
## 11	263	0	1	1
0				
## 12	263	0	1	1
0				
## 13	131	0	1	1
0				
## 14	494	0	0	0
0				
## 15	263	0	1	0
0				

## 16	263	0	0	0
0				
## 17	494	0	0	0
0				
## 18	75	1	1	1
0				
## 19	75	0	0	0
0				
## 20	9	1	1	0
0				
## 21	9	0	0	0
0				
## 22	29	0	0	0
0				
## 23	29	1	0	0
0				
## 24	263	0	0	0
0				
## 25	263	1	1	1
0				
## 26	131	1	1	0
0				
## 27	131	0	0	0
0				
## 28	494	0	0	0
0				
## 29	494	0	0	0
0				
## 30	10	1	0	0
0				

##	GLM	NextDay2PercentIncrease.y	mostVoted	NextDayPrice
## 1	0	0	0	20.25
## 2	0	1	0	22.49
## 3	0	1	0	22.99
## 4	0	0	0	23.22
## 5	0	0	0	23.18
## 6	0	0	0	28.01
## 7	0	0	0	25.43
## 8	0	0	0	24.27
## 9	0	0	0	21.18
## 10	0	0	0	20.64
## 11	0	0	1	20.98
## 12	0	0	1	20.27
## 13	1	0	1	18.32
## 14	0	0	0	17.07
## 15	0	0	0	16.71
## 16	0	0	0	15.69
## 17	0	0	0	15.22
## 18	0	1	1	17.52
## 19	0	0	0	18.85

## 20	1	1	1	19.65
## 21	0	0	0	21.39
## 22	1	0	0	22.73
## 23	0	1	0	26.16
## 24	0	0	0	21.64
## 25	0	1	1	23.02
## 26	1	1	1	24.00
## 27	0	0	0	23.29
## 28	0	0	0	21.50
## 29	0	0	0	18.82
## 30	0	1	0	23.40

`tail(sYELP2,30)`

##	Date	DayOfWeek	stockDayValue	lag1	today2lag1	decrDaysThisCycle
## 576	2019-10-25	Friday	34.69	33.51	1.0352134	0
## 577	2019-10-29	Tuesday	34.32	34.91	0.9830994	1
## 578	2019-10-31	Thursday	34.51	34.85	0.9902439	1
## 579	2019-11-08	Friday	34.77	30.12	1.1543824	0
## 580	2019-11-15	Friday	34.61	34.27	1.0099212	0
## 581	2019-11-27	Wednesday	35.21	35.13	1.0022772	2
## 582	2019-11-29	Friday	34.68	35.21	0.9849475	2
## 583	2019-12-04	Wednesday	34.18	33.66	1.0154486	5
## 584	2019-12-06	Friday	33.38	33.42	0.9988032	5
## 585	2019-12-10	Tuesday	33.03	33.08	0.9984884	5
## 586	2019-12-11	Wednesday	32.71	33.03	0.9903118	5
## 587	2019-12-12	Thursday	33.39	32.71	1.0207888	0
## 588	2019-12-13	Friday	33.55	33.39	1.0047919	0
## 589	2019-12-17	Tuesday	34.00	33.78	1.0065128	0
## 590	2019-12-20	Friday	34.03	34.11	0.9976546	2
## 591	2019-12-23	Monday	34.21	34.03	1.0052895	1
## 592	2019-12-26	Thursday	34.66	34.06	1.0176159	0
## 593	2019-12-30	Monday	34.58	34.85	0.9922526	1
## 594	2019-12-31	Tuesday	34.83	34.58	1.0072296	3
## 595	2020-01-06	Monday	34.44	34.72	0.9919354	3
## 596	2020-01-16	Thursday	37.24	36.95	1.0078485	2
## 597	2020-01-21	Tuesday	35.33	36.51	0.9676802	2
## 598	2020-01-27	Monday	35.35	36.12	0.9786821	1
## 599	2020-01-30	Thursday	34.77	35.39	0.9824810	3
## 600	2020-02-21	Friday	34.00	34.64	0.9815243	2
## 601	2020-02-26	Wednesday	32.94	33.51	0.9829902	3
## 602	2020-03-02	Monday	31.65	31.27	1.0121522	1
## 603	2020-03-05	Thursday	29.14	31.39	0.9283211	3
## 604	2020-03-09	Monday	26.40	28.94	0.9122322	3
## 605	2020-03-12	Thursday	21.46	24.00	0.8941666	2
##	nTimesDecrDayCountsOccurs		todayLessThanlag1	incrDaysThisCycle		
## 576	485		0	2		
## 577	273		1	1		
## 578	273		1	1		
## 579	485		0	2		

## 580	485	0	2	
## 581	122	0	2	
## 582	122	1	0	
## 583	10	0	2	
## 584	10	1	0	
## 585	10	1	0	
## 586	10	1	5	
## 587	485	0	5	
## 588	485	0	5	
## 589	485	0	5	
## 590	122	1	1	
## 591	273	0	1	
## 592	485	0	2	
## 593	273	1	1	
## 594	74	0	1	
## 595	74	1	2	
## 596	122	0	5	
## 597	122	1	3	
## 598	273	1	1	
## 599	74	1	0	
## 600	122	1	0	
## 601	74	1	0	
## 602	273	0	1	
## 603	74	1	0	
## 604	74	1	1	
## 605	122	1	1	
##	nTimesIncrDayCountsOccurs	NextDay2PercentIncrease.x	RandomForest	KNN
Rpart				
## 576	131	0	0	0
0				
## 577	263	0	0	0
0				
## 578	263	0	0	0
0				
## 579	131	1	0	0
0				
## 580	131	0	0	0
0				
## 581	131	0	0	0
0				
## 582	494	0	0	0
0				
## 583	131	0	0	0
0				
## 584	494	0	0	0
0				
## 585	494	0	0	0
0				
## 586	10	1	0	0
0				

## 587	10	0	0	0
0				
## 588	10	0	0	0
0				
## 589	10	0	0	0
0				
## 590	263	0	0	0
0				
## 591	263	0	0	0
0				
## 592	131	0	0	0
0				
## 593	263	0	0	0
0				
## 594	263	0	0	0
0				
## 595	131	0	0	0
0				
## 596	10	0	0	0
0				
## 597	75	0	0	0
0				
## 598	263	0	0	0
0				
## 599	494	0	0	0
0				
## 600	494	0	0	0
0				
## 601	494	0	0	0
0				
## 602	263	0	0	0
0				
## 603	494	0	0	0
0				
## 604	263	1	1	0
0				
## 605	263	1	1	1
0				
##	GLM	NextDay2PercentIncrease.y	mostVoted	NextDayPrice
## 576	0	0	0	34.91
## 577	0	0	0	34.85
## 578	0	0	0	35.06
## 579	0	1	0	36.06
## 580	0	0	0	34.78
## 581	0	0	0	34.68
## 582	0	0	0	33.47
## 583	0	0	0	33.42
## 584	0	0	0	33.08
## 585	0	0	0	32.71
## 586	0	1	0	33.39

## 587	0	0	0	33.55
## 588	0	0	0	33.78
## 589	0	0	0	34.14
## 590	0	0	0	34.21
## 591	0	0	0	34.06
## 592	0	0	0	34.85
## 593	0	0	0	34.83
## 594	0	0	0	34.77
## 595	0	0	0	34.57
## 596	0	0	0	36.51
## 597	0	0	0	35.81
## 598	0	0	0	35.41
## 599	0	0	0	32.60
## 600	0	0	0	32.42
## 601	0	0	0	31.40
## 602	0	0	0	30.59
## 603	0	0	0	28.94
## 604	0	1	0	27.81
## 605	0	1	1	23.54

The above is the last 30 of the 605 testing set samples with the next day predictions in predicting whether the value would be 2% more than the previous day.