

# Stock Counts 52 Machine Learning

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This script takes the STOCK\_COUNTS\_52.csv table made in the matrix.Rmd script and runs known algorithms on it for machine learning results using the features in the table of counts from the time specified in making the table. It can predict with 100% accuracy what cycle you are in or how many days are increasing using the given data set and the random forest and generalized linear models for predictions. The file is at

[https://www.kaggle.com/janiscorona/stock-day-counts-increasing-and-decreasing-0720#STOCK\\_COUNTS\\_52.csv](https://www.kaggle.com/janiscorona/stock-day-counts-increasing-and-decreasing-0720#STOCK_COUNTS_52.csv)

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

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

```
stock_52 <- read.csv('STOCK_COUNTS_52.csv', sep=',', header=TRUE,
                    na.strings=c('', ' ', 'NA'))
```

```
head(stock_52)
```

```
##      stock
## 1    AAL
## 2    AAP
## 3 ADDYY
## 4    AMZN
## 5    ARWR
## 6      C
##
stockInfo
## 1    American Airlines Group Inc. (AAL)\nNasdaqGS - NasdaqGS Real Time Price. Currency in USD
## 2                Advance Auto Parts, Inc. (AAP)\nNYSE - NYSE Delayed Price. Currency in USD
## 3                adidas AG (ADDYY)\nOther OTC - Other OTC Delayed Price. Currency in USD
## 4                Amazon.com, Inc. (AMZN)\nNasdaqGS - NasdaqGS Real Time Price. Currency in USD
## 5 Arrowhead Pharmaceuticals, Inc. (ARWR)\nNasdaqGS - NasdaqGS Real Time Price. Currency in USD
## 6                Citigroup Inc. (C)\nNYSE - NYSE Delayed Price. Currency in USD
```

ice. Currency in USD

##	stockExchange	Date	DayOfWeek	Month	Year	MonthYear	stockDayValue	
lag7								
## 1	Nasdaq	2007-01-12	Friday	Jan	2007	Jan-2007	60.81	5
6.30								
## 2	NYSE	2007-01-12	Friday	Jan	2007	Jan-2007	36.20	3
5.58								
## 3	Other OTC	2007-01-12	Friday	Jan	2007	Jan-2007	24.40	2
5.00								
## 4	Nasdaq	2007-01-12	Friday	Jan	2007	Jan-2007	38.20	3
8.70								
## 5	Nasdaq	2007-01-12	Friday	Jan	2007	Jan-2007	40.27	4
4.00								
## 6	NYSE	2007-01-12	Friday	Jan	2007	Jan-2007	543.80	55
2.50								
##	today2lag7	todayGrtrThanLag7	cumulativeSumTodayGrtrThanLag7					
## 1	0.9258345	0	0					
## 2	0.9828730	0	0					
## 3	1.0245902	1	1					
## 4	1.0130890	1	1					
## 5	1.0926248	1	1					
## 6	1.0159986	1	1					
##	nRepeatsTodayGrtrThanLag7	decrDaysThisCycle	nTimesDecrDayCountsOccurs					
## 1	3	2	29					
## 2	11	10	8					
## 3	1	0	1191					
## 4	1	0	1162					
## 5	1	0	1407					
## 6	1	0	1340					
##	todayLessThanLag7	cumulativeSumTodayLessThanLag7	nRepeatsTodayLessThanLag7					
## 1	1	1						
## 2	1	1						
## 3	0	0						
## 4	0	0						
## 5	0	0						
## 6	0	0						
##	incrDaysThisCycle	nTimesIncrDayCountsOccurs						
## 1	0	1428						
## 2	0	1499						
## 3	2	44						
## 4	9	11						
## 5	9	18						
## 6	4	21						

```
colnames(stock_52)
```

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

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

```
stocks_52 <- stock_52[,c(1,4,9,12:21)]
sAAL <- subset(stocks_52, stocks_52$stock == 'AAL')
row.names(sAAL) <- sAAL$Date
sAAL <- sAAL[, -c(1:2)]
head(sAAL)
```

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

	4	9
## 2007-01-22		
##	incrDaysThisCycle	nTimesIncrDayCountsOccurs
## 2007-01-12	0	1428
## 2007-01-16	0	1428
## 2007-01-17	1	61
## 2007-01-18	1	61
## 2007-01-19	8	12
## 2007-01-22	8	12

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

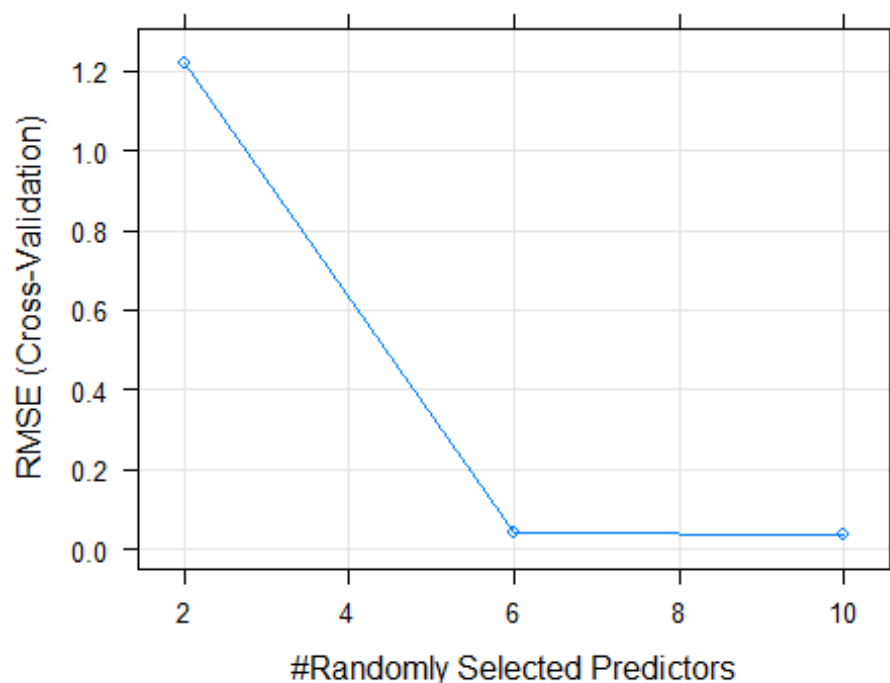
```
set.seed(12356789)

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

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

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

plot(rfMod)
```



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

predDF <- data.frame(predRF, IncreasingDaysThisCycle=testingSet$incrDaysThisC
```

ycle)  
predDF

##	predRF	IncreasingDaysThisCycle
## 2007-01-16	2.660000e-01	0
## 2007-01-17	1.188000e+00	1
## 2007-01-22	8.008000e+00	8
## 2007-01-23	8.024000e+00	8
## 2007-01-24	8.040000e+00	8
## 2007-01-26	8.040000e+00	8
## 2007-01-29	8.040000e+00	8
## 2007-01-31	8.008000e+00	8
## 2007-02-08	-1.556621e-14	0
## 2007-02-09	-2.046008e-14	0
## 2007-02-16	2.500000e+01	25
## 2007-02-27	2.500000e+01	25
## 2007-03-02	2.500000e+01	25
## 2007-03-07	2.500000e+01	25
## 2007-03-12	2.500000e+01	25
## 2007-03-14	2.500000e+01	25
## 2007-03-19	2.500000e+01	25
## 2007-03-21	2.480400e+01	25
## 2007-03-22	3.000000e-02	0
## 2007-03-29	3.994000e+00	4
## 2007-04-02	4.000000e+00	4
## 2007-04-04	1.034000e+00	1
## 2007-04-05	3.000000e-02	0
## 2007-04-09	3.000000e-02	0
## 2007-04-13	7.000000e+00	7
## 2007-04-16	7.000000e+00	7
## 2007-04-26	2.100000e+01	21
## 2007-04-27	2.100000e+01	21
## 2007-05-03	2.100000e+01	21
## 2007-05-11	2.100000e+01	21
## 2007-05-18	2.100000e+01	21
## 2007-05-29	-2.663825e-14	0
## 2007-06-04	1.200000e+01	12
## 2007-06-05	1.200000e+01	12
## 2007-06-12	1.200000e+01	12
## 2007-06-13	1.200000e+01	12
## 2007-06-15	1.200000e+01	12
## 2007-06-18	1.200000e+01	12
## 2007-06-20	3.200000e-02	0
## 2007-06-26	-2.889422e-14	0
## 2007-06-29	-2.989786e-14	0
## 2007-07-03	-2.934897e-14	0
## 2007-07-11	-2.902034e-14	0
## 2007-07-13	-2.951062e-14	0
## 2007-07-17	1.000000e+00	1
## 2007-07-18	1.038000e+00	1

## 2007-07-20	2.008000e+00	2
## 2007-07-23	2.012000e+00	2
## 2007-08-03	2.000000e+01	20
## 2007-08-08	2.000000e+01	20
## 2007-08-14	2.000000e+01	20
## 2007-08-16	2.000000e+01	20
## 2007-08-17	2.000000e+01	20
## 2007-08-20	2.000000e+01	20
## 2007-08-27	-3.124789e-14	0
## 2007-09-05	-3.143619e-14	0
## 2007-09-13	5.000000e+00	5
## 2007-09-20	9.000000e+00	9
## 2007-09-21	9.000000e+00	9
## 2007-09-24	9.000000e+00	9
## 2007-10-01	9.000000e+00	9
## 2007-10-02	8.960000e+00	9
## 2007-10-04	-3.169021e-14	0
## 2007-10-10	-3.172218e-14	0
## 2007-10-22	7.000000e+00	7
## 2007-10-24	3.000000e+00	3
## 2007-10-30	-2.930456e-14	0
## 2007-11-01	1.000000e+01	10
## 2007-11-06	1.000000e+01	10
## 2007-11-13	1.000000e+01	10
## 2007-11-19	9.000000e+00	9
## 2007-11-21	9.000000e+00	9
## 2007-11-26	9.000000e+00	9
## 2007-11-28	9.000000e+00	9
## 2007-11-30	1.400000e+01	14
## 2007-12-03	1.400000e+01	14
## 2007-12-04	1.400000e+01	14
## 2007-12-06	1.400000e+01	14
## 2007-12-10	1.400000e+01	14
## 2007-12-14	1.400000e+01	14
## 2007-12-17	1.400000e+01	14
## 2008-01-03	1.100000e+01	11
## 2008-01-07	1.100000e+01	11
## 2008-01-16	-3.123013e-14	0
## 2008-01-23	-2.903811e-14	0
## 2008-01-24	1.000000e+00	1
## 2008-01-28	-3.178613e-14	0
## 2008-01-31	-3.185718e-14	0
## 2008-02-07	-3.196199e-14	0
## 2008-02-11	1.000000e+00	1
## 2008-02-15	2.500000e+01	25
## 2008-02-28	2.500000e+01	25
## 2008-03-17	2.500800e+01	25
## 2008-03-19	2.500800e+01	25
## 2008-03-20	2.440200e+01	25
## 2008-03-31	-3.042366e-14	0

## 2008-04-03	-3.057288e-14	0
## 2008-04-07	-3.067591e-14	0
## 2008-04-08	1.296800e+01	13
## 2008-04-10	1.300000e+01	13
## 2008-04-22	1.300000e+01	13
## 2008-04-24	1.300000e+01	13
## 2008-04-28	-3.066170e-14	0
## 2008-05-06	7.000000e+00	7
## 2008-05-14	7.000000e+00	7
## 2008-05-19	9.996000e+00	10
## 2008-05-20	1.000000e+01	10
## 2008-05-29	1.000000e+01	10
## 2008-06-10	2.000000e+01	20
## 2008-06-13	2.000000e+01	20
## 2008-06-16	2.000000e+01	20
## 2008-06-20	2.000000e+01	20
## 2008-06-23	2.000000e+01	20
## 2008-06-25	2.000000e+01	20
## 2008-06-27	2.000000e+01	20
## 2008-07-08	-2.598632e-14	0
## 2008-07-09	5.992000e+00	6
## 2008-07-10	6.000000e+00	6
## 2008-07-11	6.000000e+00	6
## 2008-07-29	-3.040768e-14	0
## 2008-08-04	-3.054978e-14	0
## 2008-08-05	-3.062794e-14	0
## 2008-08-06	-3.062794e-14	0
## 2008-08-08	-3.094947e-14	0
## 2008-08-14	-3.110046e-14	0
## 2008-08-18	6.986000e+00	7
## 2008-09-02	-3.073097e-14	0
## 2008-09-03	1.000000e+00	1
## 2008-09-05	-2.927081e-14	0
## 2008-09-08	4.000000e+00	4
## 2008-09-09	4.000000e+00	4
## 2008-09-10	4.000000e+00	4
## 2008-09-11	4.000000e+00	4
## 2008-09-12	4.000000e+00	4
## 2008-09-16	1.400000e-02	0
## 2008-09-18	-3.104716e-14	0
## 2008-09-22	7.000000e+00	7
## 2008-09-25	7.000000e+00	7
## 2008-10-06	8.000000e+00	8
## 2008-10-13	8.000000e+00	8
## 2008-10-14	8.000000e+00	8
## 2008-10-17	-3.076828e-14	0
## 2008-10-21	-3.101164e-14	0
## 2008-10-24	-3.101164e-14	0
## 2008-10-28	-3.109157e-14	0
## 2008-10-30	-3.109157e-14	0

## 2008-11-07	1.300000e+01	13
## 2008-11-18	1.300000e+01	13
## 2008-11-20	1.297400e+01	13
## 2008-11-21	1.297400e+01	13
## 2008-11-25	2.014000e+00	2
## 2008-12-10	-3.142198e-14	0
## 2008-12-15	3.000000e+00	3
## 2008-12-23	-3.049294e-14	0
## 2008-12-24	-3.072742e-14	0
## 2008-12-30	-3.064926e-14	0
## 2008-12-31	-3.076650e-14	0
## 2009-01-02	-3.089440e-14	0
## 2009-01-06	-3.089440e-14	0
## 2009-01-13	8.000000e+00	8
## 2009-01-15	8.000000e+00	8
## 2009-01-21	8.000000e+00	8
## 2009-01-22	8.000000e+00	8
## 2009-02-02	3.000000e+01	30
## 2009-02-03	3.000000e+01	30
## 2009-02-11	3.000000e+01	30
## 2009-02-17	3.000000e+01	30
## 2009-02-19	3.000000e+01	30
## 2009-02-20	3.000000e+01	30
## 2009-02-25	3.000000e+01	30
## 2009-02-26	3.000000e+01	30
## 2009-03-04	3.000000e+01	30
## 2009-03-09	3.000000e+01	30
## 2009-03-12	-2.894929e-14	0
## 2009-03-18	-2.993872e-14	0
## 2009-03-20	7.000000e+00	7
## 2009-03-24	7.000000e+00	7
## 2009-03-26	7.000000e+00	7
## 2009-03-31	1.000000e+00	1
## 2009-04-01	1.000000e+00	1
## 2009-04-07	-2.920864e-14	0
## 2009-04-08	-2.928680e-14	0
## 2009-04-13	-2.974332e-14	0
## 2009-04-14	-2.959943e-14	0
## 2009-04-15	-2.974332e-14	0
## 2009-04-16	-2.989964e-14	0
## 2009-04-17	-2.997780e-14	0
## 2009-04-24	-3.072387e-14	0
## 2009-04-28	9.980000e-01	1
## 2009-05-01	3.000000e+00	3
## 2009-05-06	-3.027090e-14	0
## 2009-05-07	1.600000e+01	16
## 2009-05-08	1.600000e+01	16
## 2009-05-11	1.600000e+01	16
## 2009-05-14	1.600000e+01	16
## 2009-05-26	1.600000e+01	16



## 2009-05-28	1.600000e+01	16
## 2009-06-03	1.000000e+00	1
## 2009-06-05	-2.900435e-14	0
## 2009-06-16	1.600000e+01	16
## 2009-06-19	1.600000e+01	16
## 2009-06-23	1.600000e+01	16
## 2009-06-30	1.600000e+01	16
## 2009-07-09	1.000000e+01	10
## 2009-07-10	1.000000e+01	10
## 2009-08-06	-3.006129e-14	0
## 2009-08-12	-2.810374e-14	0
## 2009-08-18	4.000000e+00	4
## 2009-08-24	-3.047518e-14	0
## 2009-08-28	-3.070966e-14	0
## 2009-09-02	5.000000e+00	5
## 2009-09-30	1.000000e+01	10
## 2009-10-01	1.000000e+01	10
## 2009-10-07	1.000000e+01	10
## 2009-10-14	-3.064216e-14	0
## 2009-10-15	-3.068479e-14	0
## 2009-10-26	1.400000e+01	14
## 2009-11-02	1.400000e+01	14
## 2009-11-03	1.400000e+01	14
## 2009-11-04	1.400000e+01	14
## 2009-11-05	1.397200e+01	14
## 2009-11-10	-3.033840e-14	0
## 2009-11-11	-3.055334e-14	0
## 2009-11-16	-3.070966e-14	0
## 2009-11-25	-2.988543e-14	0
## 2009-11-30	-2.988543e-14	0
## 2009-12-01	-2.988543e-14	0
## 2009-12-03	-3.011991e-14	0
## 2009-12-08	-3.041833e-14	0
## 2009-12-10	-3.034017e-14	0
## 2009-12-11	-3.072209e-14	0
## 2009-12-14	-3.072209e-14	0
## 2009-12-22	-3.072209e-14	0
## 2009-12-28	-3.072209e-14	0
## 2010-01-04	9.980000e-01	1
## 2010-01-06	1.000000e+00	1
## 2010-01-13	-3.135270e-14	0
## 2010-01-14	-3.141842e-14	0
## 2010-01-21	-3.135270e-14	0
## 2010-01-22	5.000000e+00	5
## 2010-01-28	5.000000e+00	5
## 2010-02-02	-3.011635e-14	0
## 2010-02-03	-3.003819e-14	0
## 2010-02-11	-3.018918e-14	0
## 2010-02-12	-3.018918e-14	0
## 2010-02-16	-3.026734e-14	0

## 2010-02-18	-3.018918e-14	0
## 2010-02-19	-3.026734e-14	0
## 2010-02-25	-3.026734e-14	0
## 2010-03-02	-3.046274e-14	0
## 2010-03-04	-3.034550e-14	0
## 2010-03-11	-3.058886e-14	0
## 2010-03-16	-3.058886e-14	0
## 2010-03-30	-3.100276e-14	0
## 2010-04-07	3.000000e+00	3
## 2010-04-08	-3.142198e-14	0
## 2010-04-23	7.000000e+00	7
## 2010-04-28	-3.134382e-14	0
## 2010-05-03	-3.134382e-14	0
## 2010-05-04	-3.128164e-14	0
## 2010-05-05	-3.128164e-14	0
## 2010-05-06	4.000000e+00	4
## 2010-05-12	4.024000e+00	4
## 2010-05-17	-3.161027e-14	0
## 2010-05-20	2.060000e+00	2
## 2010-06-04	3.000000e+00	3
## 2010-06-07	3.000000e+00	3
## 2010-06-09	3.000000e+00	3
## 2010-06-11	-3.227285e-14	0
## 2010-06-16	-3.233502e-14	0
## 2010-06-18	-3.241318e-14	0
## 2010-06-25	1.000000e+01	10
## 2010-07-07	-3.167600e-14	0
## 2010-07-19	3.000000e+00	3
## 2010-07-20	3.000000e+00	3
## 2010-07-23	-3.258194e-14	0
## 2010-07-26	-3.235279e-14	0
## 2010-08-02	-3.251444e-14	0
## 2010-08-04	9.000000e+00	9
## 2010-08-16	9.000000e+00	9
## 2010-08-18	1.000000e+01	10
## 2010-08-20	1.000000e+01	10
## 2010-08-24	1.000000e+01	10
## 2010-08-25	1.000000e+01	10
## 2010-08-30	1.000000e+01	10
## 2010-08-31	1.000000e+01	10
## 2010-09-01	-3.195133e-14	0
## 2010-09-07	-3.195133e-14	0
## 2010-09-10	6.000000e+00	6
## 2010-09-13	6.000000e+00	6
## 2010-09-16	6.000000e+00	6
## 2010-10-08	1.000000e+00	1
## 2010-10-11	1.000000e+00	1
## 2010-10-18	-3.226930e-14	0
## 2010-10-21	-3.220535e-14	0
## 2010-10-25	-3.220002e-14	0

## 2010-10-28	-3.236167e-14	0
## 2010-10-29	-3.213074e-14	0
## 2010-11-08	1.000000e+01	10
## 2010-11-09	1.000000e+01	10
## 2010-11-22	-3.217338e-14	0
## 2010-11-24	-3.208456e-14	0
## 2010-11-30	-3.212541e-14	0
## 2010-12-02	1.800000e+01	18
## 2010-12-03	1.800000e+01	18
## 2010-12-08	1.800000e+01	18
## 2010-12-09	1.800000e+01	18
## 2010-12-15	1.800000e+01	18
## 2010-12-16	1.800000e+01	18
## 2011-01-06	-3.206679e-14	0
## 2011-01-11	-3.235989e-14	0
## 2011-01-12	-3.240075e-14	0
## 2011-01-13	6.986000e+00	7
## 2011-01-14	7.000000e+00	7
## 2011-01-28	1.026000e+00	1
## 2011-02-03	7.000000e+00	7
## 2011-02-04	7.000000e+00	7
## 2011-02-10	6.994000e+00	7
## 2011-02-11	-3.206679e-14	0
## 2011-02-22	1.100000e+01	11
## 2011-02-25	1.100000e+01	11
## 2011-02-28	1.100000e+01	11
## 2011-03-09	-3.170619e-14	0
## 2011-03-16	1.000000e+00	1
## 2011-03-23	3.000000e+00	3
## 2011-03-24	3.000000e+00	3
## 2011-03-31	3.000000e+00	3
## 2011-04-04	1.000000e+01	10
## 2011-04-05	1.000000e+01	10
## 2011-04-11	1.000000e+01	10
## 2011-04-13	1.000000e+01	10
## 2011-04-26	-3.167600e-14	0
## 2011-04-27	-3.167600e-14	0
## 2011-04-28	-3.175415e-14	0
## 2011-04-29	-3.175415e-14	0
## 2011-05-05	-3.208633e-14	0
## 2011-05-20	-3.193712e-14	0
## 2011-05-27	1.600000e+01	16
## 2011-06-03	1.600000e+01	16
## 2011-06-07	1.600000e+01	16
## 2011-06-08	1.600000e+01	16
## 2011-06-09	1.600000e+01	16
## 2011-06-14	1.600000e+01	16
## 2011-06-15	1.600000e+01	16
## 2011-06-20	-3.178080e-14	0
## 2011-06-22	-3.178080e-14	0

## 2011-06-28	-3.188028e-14	0
## 2011-06-29	-3.188028e-14	0
## 2011-07-01	2.899200e+01	29
## 2011-07-11	2.900000e+01	29
## 2011-07-13	2.900000e+01	29
## 2011-07-14	2.900000e+01	29
## 2011-07-22	2.900000e+01	29
## 2011-08-05	2.900000e+01	29
## 2011-08-11	2.900000e+01	29
## 2011-08-16	-3.046274e-14	0
## 2011-08-18	7.000000e+00	7
## 2011-08-25	7.000000e+00	7
## 2011-08-26	7.000000e+00	7
## 2011-08-29	-3.011991e-14	0
## 2011-09-02	7.000000e+00	7
## 2011-09-06	7.000000e+00	7
## 2011-09-21	-3.055156e-14	0
## 2011-09-30	7.000000e+00	7
## 2011-10-05	7.000000e+00	7
## 2011-10-13	-3.048939e-14	0
## 2011-10-17	-3.005241e-14	0
## 2011-10-24	5.000000e+00	5
## 2011-10-28	2.998000e+00	3
## 2011-11-03	1.600000e+01	16
## 2011-11-16	1.600000e+01	16
## 2011-11-21	1.600000e+01	16
## 2011-11-22	1.600000e+01	16
## 2011-11-25	1.600000e+01	16
## 2011-11-30	-2.970069e-14	0
## 2011-12-02	-2.985701e-14	0
## 2011-12-05	-2.996181e-14	0
## 2011-12-12	-2.983214e-14	0
## 2011-12-14	-2.983214e-14	0
## 2011-12-16	-3.004352e-14	0
## 2011-12-19	-2.980904e-14	0
## 2011-12-20	-2.981082e-14	0
## 2011-12-22	-2.965450e-14	0
## 2011-12-23	6.986000e+00	7
## 2011-12-27	7.000000e+00	7
## 2011-12-28	7.000000e+00	7
## 2012-01-10	-2.996003e-14	0
## 2012-01-11	-3.020695e-14	0
## 2012-01-18	-3.054801e-14	0
## 2012-01-20	-3.070255e-14	0
## 2012-01-31	-3.117862e-14	0
## 2012-02-02	-3.123546e-14	0
## 2012-02-22	2.000000e+01	20
## 2012-03-02	2.000000e+01	20
## 2012-03-07	2.000000e+01	20
## 2012-03-13	1.997000e+01	20

## 2012-03-15	-3.034195e-14	0
## 2012-03-28	-3.071321e-14	0
## 2012-04-11	-3.031708e-14	0
## 2012-04-13	-3.052314e-14	0
## 2012-04-20	-3.097256e-14	0
## 2012-04-25	-3.107559e-14	0
## 2012-05-03	-3.157652e-14	0
## 2012-05-04	-3.166534e-14	0
## 2012-05-10	-3.166178e-14	0
## 2012-05-14	-3.134737e-14	0
## 2012-05-17	5.000000e+00	5
## 2012-05-22	5.000000e+00	5
## 2012-06-04	6.000000e+00	6
## 2012-06-06	6.000000e+00	6
## 2012-06-12	5.992000e+00	6
## 2012-06-15	-3.268141e-14	0
## 2012-06-26	-3.291589e-14	0
## 2012-07-12	-3.283773e-14	0
## 2012-07-13	-3.283773e-14	0
## 2012-07-16	-3.283773e-14	0
## 2012-07-18	2.300000e+01	23
## 2012-07-23	2.300000e+01	23
## 2012-07-25	2.300000e+01	23
## 2012-07-26	2.300000e+01	23
## 2012-07-27	2.300000e+01	23
## 2012-07-31	2.300000e+01	23
## 2012-08-06	2.300000e+01	23
## 2012-08-07	2.300000e+01	23
## 2012-08-08	2.300000e+01	23
## 2012-08-22	-3.138467e-14	0
## 2012-08-29	4.000000e+00	4
## 2012-09-07	-3.171508e-14	0
## 2012-09-18	9.000000e+00	9
## 2012-09-20	9.000000e+00	9
## 2012-09-21	9.000000e+00	9
## 2012-09-25	9.000000e+00	9
## 2012-09-26	9.000000e+00	9
## 2012-09-27	1.000000e+00	1
## 2012-10-04	-3.169554e-14	0
## 2012-10-11	3.000000e+00	3
## 2012-10-23	-3.204903e-14	0
## 2012-10-24	-3.225331e-14	0
## 2012-11-02	-3.237410e-14	0
## 2012-11-12	1.000000e+00	1
## 2012-11-26	-3.225864e-14	0
## 2012-11-28	-3.225864e-14	0
## 2012-11-30	-3.225864e-14	0
## 2012-12-03	6.000000e+00	6
## 2012-12-10	6.000000e+00	6
## 2012-12-11	6.002000e+00	6

## 2012-12-12	-3.245049e-14	0
## 2012-12-21	-3.256950e-14	0
## 2012-12-28	1.000000e+00	1
## 2012-12-31	-3.276135e-14	0
## 2013-01-02	-3.276135e-14	0
## 2013-01-14	5.004000e+00	5
## 2013-01-18	5.000000e+00	5
## 2013-01-25	-3.222489e-14	0
## 2013-01-31	7.000000e+00	7
## 2013-02-05	7.000000e+00	7
## 2013-02-07	-3.252332e-14	0
## 2013-02-12	-3.241851e-14	0
## 2013-02-13	9.998000e+00	10
## 2013-02-14	1.000000e+01	10
## 2013-02-15	1.000000e+01	10
## 2013-02-26	1.000000e+01	10
## 2013-02-27	1.000000e+01	10
## 2013-03-01	-3.328893e-14	0
## 2013-03-04	-3.328893e-14	0
## 2013-03-05	-3.328893e-14	0
## 2013-03-06	-3.328893e-14	0
## 2013-03-11	-3.330669e-14	0
## 2013-03-12	-3.330669e-14	0
## 2013-03-21	-3.346301e-14	0
## 2013-04-03	8.000000e+00	8
## 2013-04-05	8.000000e+00	8
## 2013-04-11	-2.951595e-14	0
## 2013-04-12	1.000000e+00	1
## 2013-04-17	-3.256950e-14	0
## 2013-04-19	1.020000e+00	1
## 2013-04-26	-3.356249e-14	0
## 2013-05-06	-3.353406e-14	0
## 2013-05-08	-3.353406e-14	0
## 2013-05-16	-3.363887e-14	0
## 2013-05-17	-3.363887e-14	0
## 2013-05-20	-3.357137e-14	0
## 2013-05-23	1.500000e+01	15
## 2013-06-06	1.500000e+01	15
## 2013-06-12	1.500000e+01	15
## 2013-06-13	1.500000e+01	15
## 2013-06-14	1.500000e+01	15
## 2013-06-18	8.002000e+00	8
## 2013-06-20	8.000000e+00	8
## 2013-06-21	8.000000e+00	8
## 2013-06-24	8.000000e+00	8
## 2013-06-25	7.998000e+00	8
## 2013-07-01	-3.318412e-14	0
## 2013-07-10	-3.324985e-14	0
## 2013-07-16	-3.333156e-14	0
## 2013-07-18	-3.338485e-14	0

## 2013-07-19	-3.338485e-14	0
## 2013-07-23	-3.332978e-14	0
## 2013-07-30	-3.345590e-14	0
## 2013-08-05	1.377200e+01	14
## 2013-08-08	1.400000e+01	14
## 2013-08-12	1.400000e+01	14
## 2013-08-28	2.000000e+00	2
## 2013-09-06	-3.349676e-14	0
## 2013-09-10	-3.358736e-14	0
## 2013-09-12	-3.356249e-14	0
## 2013-09-17	-3.365308e-14	0
## 2013-09-18	-3.365308e-14	0
## 2013-09-19	-3.366374e-14	0
## 2013-09-20	-3.366374e-14	0
## 2013-09-26	-3.366374e-14	0
## 2013-10-02	-3.297806e-14	0
## 2013-10-03	-3.303668e-14	0
## 2013-10-04	-3.303668e-14	0
## 2013-10-10	-3.303668e-14	0
## 2013-10-14	1.020000e+00	1
## 2013-10-25	-3.333511e-14	0
## 2013-11-01	-3.306511e-14	0
## 2013-11-05	-3.311484e-14	0
## 2013-11-06	1.004000e+00	1
## 2013-11-07	1.000000e+00	1
## 2013-11-13	-3.353762e-14	0
## 2013-11-15	-3.362466e-14	0
## 2013-11-20	-3.351452e-14	0
## 2013-11-26	8.000000e+00	8
## 2013-11-27	8.000000e+00	8
## 2013-12-03	8.000000e+00	8
## 2013-12-04	8.000000e+00	8
## 2013-12-06	8.000000e+00	8
## 2013-12-10	-3.356604e-14	0
## 2013-12-16	-3.349321e-14	0
## 2013-12-18	-3.342926e-14	0
## 2013-12-19	-3.342926e-14	0
## 2013-12-26	5.000000e+00	5
## 2013-12-27	5.000000e+00	5
## 2013-12-31	5.000000e+00	5
## 2014-01-02	5.012000e+00	5
## 2014-01-07	-3.282352e-14	0
## 2014-01-10	-3.270095e-14	0
## 2014-01-13	-3.282352e-14	0
## 2014-01-21	-3.276135e-14	0
## 2014-01-24	-3.272049e-14	0
## 2014-02-04	-3.247180e-14	0
## 2014-02-06	-3.234391e-14	0
## 2014-02-11	-3.176304e-14	0
## 2014-02-18	2.000000e+00	2

## 2014-02-25	-3.146461e-14	0
## 2014-02-28	-3.150902e-14	0
## 2014-03-03	-3.209522e-14	0
## 2014-03-04	-3.159784e-14	0
## 2014-03-07	-3.202949e-14	0
## 2014-03-11	-3.189093e-14	0
## 2014-03-14	7.000000e+00	7
## 2014-04-10	7.000000e+00	7
## 2014-04-17	7.000000e+00	7
## 2014-04-24	-3.199041e-14	0
## 2014-05-01	2.000000e+00	2
## 2014-05-13	-3.300649e-14	0
## 2014-05-16	-3.281109e-14	0
## 2014-05-21	3.000000e+00	3
## 2014-05-27	-3.306333e-14	0
## 2014-06-02	-3.298339e-14	0
## 2014-06-03	-3.295675e-14	0
## 2014-06-10	-3.260681e-14	0
## 2014-06-16	6.000000e+00	6
## 2014-06-23	-3.215916e-14	0
## 2014-06-24	-3.223732e-14	0
## 2014-06-25	-3.223732e-14	0
## 2014-06-26	-3.215916e-14	0
## 2014-07-10	8.988000e+00	9
## 2014-07-15	-3.222134e-14	0
## 2014-07-21	1.996000e+00	2
## 2014-07-29	1.500000e+01	15
## 2014-07-31	1.500000e+01	15
## 2014-08-08	1.500000e+01	15
## 2014-08-12	1.500000e+01	15
## 2014-08-15	-3.315925e-14	0
## 2014-08-20	-3.303491e-14	0
## 2014-08-26	5.000000e+00	5
## 2014-09-03	9.000000e+00	9
## 2014-09-04	9.000000e+00	9
## 2014-09-05	9.000000e+00	9
## 2014-09-15	9.000000e+00	9
## 2014-09-17	1.000000e+00	1
## 2014-09-29	1.000000e+01	10
## 2014-10-08	9.000000e+00	9
## 2014-10-10	9.000000e+00	9
## 2014-10-15	9.000000e+00	9
## 2014-10-21	-3.278089e-14	0
## 2014-10-22	-3.244160e-14	0
## 2014-10-24	-3.325340e-14	0
## 2014-10-30	-3.316991e-14	0
## 2014-10-31	-3.308998e-14	0
## 2014-11-12	-3.251444e-14	0
## 2014-11-14	-3.215561e-14	0
## 2014-11-28	-3.246647e-14	0



## 2014-12-04	-3.218936e-14	0
## 2014-12-08	1.000000e+00	1
## 2014-12-12	-3.153211e-14	0
## 2014-12-16	2.000000e+00	2
## 2014-12-22	-3.164224e-14	0
## 2014-12-24	-3.109868e-14	0
## 2015-01-02	-2.841993e-14	0
## 2015-01-08	6.972000e+00	7
## 2015-01-27	-3.042544e-14	0
## 2015-02-02	1.000000e+01	10
## 2015-02-09	1.000000e+01	10
## 2015-02-12	2.000000e+00	2
## 2015-02-24	-3.121059e-14	0
## 2015-02-25	-3.184297e-14	0
## 2015-03-03	1.000000e+01	10
## 2015-03-09	1.000000e+01	10
## 2015-03-10	1.000000e+01	10
## 2015-03-12	1.000000e+01	10
## 2015-03-19	-2.712319e-14	0
## 2015-03-24	-2.929390e-14	0
## 2015-03-26	1.400000e+01	14
## 2015-04-20	-3.158362e-14	0
## 2015-04-22	-3.106493e-14	0
## 2015-04-23	-3.110223e-14	0
## 2015-04-24	-3.027267e-14	0
## 2015-05-08	-2.926903e-14	0
## 2015-05-13	2.014000e+00	2
## 2015-05-18	9.000000e+00	9
## 2015-05-22	9.000000e+00	9
## 2015-05-26	8.982000e+00	9
## 2015-05-29	8.982000e+00	9
## 2015-06-05	8.000000e+00	8
## 2015-06-08	8.000000e+00	8
## 2015-06-11	8.000000e+00	8
## 2015-06-29	8.000000e+00	8
## 2015-06-30	8.000000e+00	8
## 2015-07-07	8.000000e+00	8
## 2015-07-13	-3.137579e-14	0
## 2015-07-15	-3.139888e-14	0
## 2015-07-24	3.000000e+00	3
## 2015-08-04	-3.116618e-14	0
## 2015-08-05	-3.103295e-14	0
## 2015-08-06	-3.125500e-14	0
## 2015-08-12	1.996000e+00	2
## 2015-08-21	9.000000e+00	9
## 2015-08-24	9.000000e+00	9
## 2015-08-25	9.000000e+00	9
## 2015-08-27	9.000000e+00	9
## 2015-09-01	9.002000e+00	9
## 2015-09-15	-3.226575e-14	0

## 2015-09-16	-3.234568e-14	0
## 2015-09-18	-3.234568e-14	0
## 2015-09-23	1.100000e+01	11
## 2015-10-02	1.100000e+01	11
## 2015-10-19	-3.235101e-14	0
## 2015-10-22	-3.256773e-14	0
## 2015-10-23	-3.247891e-14	0
## 2015-11-04	1.800000e+01	18
## 2015-11-05	1.800000e+01	18
## 2015-11-09	1.800000e+01	18
## 2015-11-11	1.800000e+01	18
## 2015-11-13	1.800000e+01	18
## 2015-11-17	1.800000e+01	18
## 2015-11-18	1.800000e+01	18
## 2015-11-19	1.800000e+01	18
## 2015-11-30	1.781200e+01	18
## 2015-12-01	-3.318945e-14	0
## 2015-12-02	-3.319123e-14	0
## 2015-12-07	-3.319123e-14	0
## 2015-12-08	-3.317524e-14	0
## 2015-12-11	7.000000e+00	7
## 2015-12-14	7.000000e+00	7
## 2015-12-29	-3.315215e-14	0
## 2016-01-06	9.000000e+00	9
## 2016-01-07	9.000000e+00	9
## 2016-01-14	6.986000e+00	7
## 2016-01-19	7.000000e+00	7
## 2016-01-21	7.000000e+00	7
## 2016-01-26	7.000000e+00	7
## 2016-02-08	1.100000e+01	11
## 2016-02-09	1.100000e+01	11
## 2016-02-11	1.104600e+01	11
## 2016-02-18	-3.372413e-14	0
## 2016-02-22	-3.366374e-14	0
## 2016-02-23	-3.374367e-14	0
## 2016-02-29	-3.366374e-14	0
## 2016-03-01	-3.344347e-14	0
## 2016-03-08	1.000000e+00	1
## 2016-03-11	-3.378631e-14	0
## 2016-03-16	-3.380940e-14	0
## 2016-03-22	1.400000e+01	14
## 2016-03-24	1.400000e+01	14
## 2016-03-31	1.400000e+01	14
## 2016-04-13	-3.421263e-14	0
## 2016-04-20	-3.395861e-14	0
## 2016-04-26	2.100000e+01	21
## 2016-04-27	2.100000e+01	21
## 2016-05-11	2.100000e+01	21
## 2016-05-16	2.100000e+01	21
## 2016-05-17	2.100000e+01	21

## 2016-05-18	2.100000e+01	21
## 2016-05-19	2.100000e+01	21
## 2016-05-26	7.000000e+00	7
## 2016-05-27	7.000000e+00	7
## 2016-06-01	7.000000e+00	7
## 2016-06-03	7.000000e+00	7
## 2016-06-08	-3.404033e-14	0
## 2016-06-16	1.500000e+01	15
## 2016-06-23	1.500000e+01	15
## 2016-06-28	1.500000e+01	15
## 2016-07-07	-3.360157e-14	0
## 2016-07-14	-3.364597e-14	0
## 2016-07-15	-3.362999e-14	0
## 2016-07-19	-3.345413e-14	0
## 2016-07-20	-3.355716e-14	0
## 2016-07-21	-3.361578e-14	0
## 2016-07-29	1.000000e+00	1
## 2016-08-03	7.000000e+00	7
## 2016-08-08	7.000000e+00	7
## 2016-08-11	-3.383605e-14	0
## 2016-08-17	-3.384670e-14	0
## 2016-08-30	-3.209522e-14	0
## 2016-09-07	-3.416645e-14	0
## 2016-09-13	9.014000e+00	9
## 2016-09-21	9.000000e+00	9
## 2016-09-26	9.002000e+00	9
## 2016-09-27	-3.378631e-14	0
## 2016-09-30	-3.378453e-14	0
## 2016-10-10	-3.457501e-14	0
## 2016-10-11	1.000000e+00	1
## 2016-10-12	1.000000e+00	1
## 2016-10-13	-3.438849e-14	0
## 2016-10-18	-3.434231e-14	0
## 2016-10-21	-3.431389e-14	0
## 2016-10-25	-3.431389e-14	0
## 2016-10-28	1.000000e+00	1
## 2016-10-31	3.000000e+00	3
## 2016-11-01	3.000000e+00	3
## 2016-11-04	-3.404743e-14	0
## 2016-11-07	-3.392309e-14	0
## 2016-11-17	-3.341505e-14	0
## 2016-11-18	-3.324629e-14	0
## 2016-11-22	-3.332445e-14	0
## 2016-11-28	-3.318767e-14	0
## 2016-11-30	1.046000e+00	1
## 2016-12-06	1.996000e+00	2
## 2016-12-13	-3.318767e-14	0
## 2016-12-16	1.000000e+00	1
## 2016-12-22	-3.312373e-14	0
## 2016-12-27	-3.312373e-14	0

## 2017-01-17	-3.318767e-14	0
## 2017-01-18	-3.318767e-14	0
## 2017-01-24	3.000000e+00	3
## 2017-01-26	8.002000e+00	8
## 2017-01-27	8.000000e+00	8
## 2017-01-31	8.000000e+00	8
## 2017-02-03	8.000000e+00	8
## 2017-02-06	8.000000e+00	8
## 2017-02-09	-3.338663e-14	0
## 2017-02-13	-3.338663e-14	0
## 2017-02-17	-3.338663e-14	0
## 2017-02-27	5.000000e+00	5
## 2017-03-03	1.300000e+01	13
## 2017-03-08	1.300000e+01	13
## 2017-03-09	1.300000e+01	13
## 2017-03-10	1.300000e+01	13
## 2017-03-14	1.300000e+01	13
## 2017-03-17	1.300000e+01	13
## 2017-03-21	1.300000e+01	13
## 2017-03-22	1.300000e+01	13
## 2017-03-29	-3.337952e-14	0
## 2017-04-04	5.000000e+00	5
## 2017-04-05	5.000000e+00	5
## 2017-04-10	5.020000e+00	5
## 2017-04-12	-3.385559e-14	0
## 2017-04-25	-3.377743e-14	0
## 2017-05-02	6.000000e+00	6
## 2017-05-08	-3.303846e-14	0
## 2017-05-19	4.000000e+00	4
## 2017-05-23	-3.343281e-14	0
## 2017-05-24	-3.343281e-14	0
## 2017-05-31	-3.335465e-14	0
## 2017-06-01	-3.335465e-14	0
## 2017-06-02	-3.335465e-14	0
## 2017-06-06	-3.335465e-14	0
## 2017-06-09	-3.321965e-14	0
## 2017-06-19	1.200000e+01	12
## 2017-06-23	1.200000e+01	12
## 2017-06-27	1.200000e+01	12
## 2017-06-30	-3.362999e-14	0
## 2017-07-06	-3.286260e-14	0
## 2017-07-11	-3.323919e-14	0
## 2017-07-18	1.000000e+00	1
## 2017-07-21	1.100000e+01	11
## 2017-08-07	1.800000e+01	18
## 2017-08-08	1.800000e+01	18
## 2017-08-10	1.800000e+01	18
## 2017-08-23	1.800000e+01	18
## 2017-08-28	1.800000e+01	18
## 2017-09-08	3.022000e+00	3

## 2017-09-26	-3.303313e-14	0
## 2017-09-27	-3.303313e-14	0
## 2017-10-02	-3.303313e-14	0
## 2017-10-04	-3.260503e-14	0
## 2017-10-11	-2.992095e-14	0
## 2017-10-12	-3.052847e-14	0
## 2017-10-17	-3.175948e-14	0
## 2017-10-19	2.000000e+01	20
## 2017-10-20	2.000000e+01	20
## 2017-10-24	2.000000e+01	20
## 2017-11-03	2.000000e+01	20
## 2017-11-07	2.000000e+01	20
## 2017-11-15	1.973800e+01	20
## 2017-11-27	-3.149658e-14	0
## 2017-12-07	-3.094947e-14	0
## 2017-12-08	-3.074518e-14	0
## 2017-12-15	-3.074518e-14	0
## 2017-12-19	-3.051071e-14	0
## 2017-12-21	-2.859224e-14	0
## 2018-01-02	1.000000e+00	1
## 2018-01-16	-2.482103e-14	0
## 2018-01-18	-1.932676e-14	0
## 2018-01-25	1.500000e+01	15
## 2018-01-26	1.500000e+01	15
## 2018-01-29	1.500000e+01	15
## 2018-01-30	1.500000e+01	15
## 2018-01-31	1.500000e+01	15
## 2018-02-05	1.500000e+01	15
## 2018-02-12	1.500000e+01	15
## 2018-02-16	-3.244338e-14	0
## 2018-02-23	-3.079137e-14	0
## 2018-03-02	-3.107736e-14	0
## 2018-03-07	1.000000e+00	1
## 2018-03-08	-2.772715e-14	0
## 2018-03-09	-2.605027e-14	0
## 2018-03-12	-2.578560e-14	0
## 2018-03-13	-2.584066e-14	0
## 2018-03-16	1.100000e+01	11
## 2018-03-27	1.100000e+01	11
## 2018-04-04	6.000000e-03	0
## 2018-04-09	1.000000e+01	10
## 2018-04-10	1.000000e+01	10
## 2018-05-08	3.000000e+00	3
## 2018-05-10	3.000000e+00	3
## 2018-05-11	-3.276135e-14	0
## 2018-05-14	-3.276135e-14	0
## 2018-05-16	-3.254463e-14	0
## 2018-05-17	-3.261746e-14	0
## 2018-05-23	-3.252687e-14	0
## 2018-06-06	1.000000e+00	1

## 2018-06-07	1.000000e+00	1
## 2018-06-08	1.000000e+00	1
## 2018-06-11	1.800000e+01	18
## 2018-06-12	1.800000e+01	18
## 2018-06-15	1.800000e+01	18
## 2018-06-18	1.800000e+01	18
## 2018-06-19	1.800000e+01	18
## 2018-06-22	1.800000e+01	18
## 2018-06-25	1.800000e+01	18
## 2018-06-26	1.800000e+01	18
## 2018-07-03	1.800000e+01	18
## 2018-07-06	1.800000e+01	18
## 2018-07-10	6.994000e+00	7
## 2018-07-12	7.000000e+00	7
## 2018-07-13	7.000000e+00	7
## 2018-07-16	7.000000e+00	7
## 2018-07-24	-3.236877e-14	0
## 2018-07-27	-3.278267e-14	0
## 2018-07-30	-3.280931e-14	0
## 2018-08-07	1.000000e+01	10
## 2018-08-16	1.000000e+01	10
## 2018-08-21	-3.266898e-14	0
## 2018-08-24	-3.264944e-14	0
## 2018-08-30	-3.243450e-14	0
## 2018-09-06	6.000000e+00	6
## 2018-09-12	6.000000e+00	6
## 2018-09-14	-3.135092e-14	0
## 2018-09-20	-3.084821e-14	0
## 2018-09-21	-3.057465e-14	0
## 2018-10-02	1.500000e+01	15
## 2018-10-04	1.500000e+01	15
## 2018-10-08	1.500000e+01	15
## 2018-10-18	1.500000e+01	15
## 2018-10-19	-3.245937e-14	0
## 2018-10-23	3.000000e+00	3
## 2018-10-24	3.000000e+00	3
## 2018-10-26	3.034000e+00	3
## 2018-10-31	-3.203837e-14	0
## 2018-11-02	-3.121770e-14	0
## 2018-11-07	-3.014833e-14	0
## 2018-11-12	-3.007017e-14	0
## 2018-11-14	-2.982681e-14	0
## 2018-11-26	1.000000e+00	1
## 2018-12-07	1.500000e+01	15
## 2018-12-12	1.500000e+01	15
## 2018-12-14	1.500000e+01	15
## 2018-12-18	1.500000e+01	15
## 2018-12-24	1.500000e+01	15
## 2019-01-03	1.000000e+00	1
## 2019-01-10	2.014000e+00	2

## 2019-01-14	-3.092460e-14	0
## 2019-01-15	1.000000e+00	1
## 2019-01-23	1.000000e+00	1
## 2019-01-28	-2.944667e-14	0
## 2019-01-29	-3.039702e-14	0
## 2019-01-30	-3.040412e-14	0
## 2019-02-01	-3.070255e-14	0
## 2019-02-05	-2.854961e-14	0
## 2019-02-15	9.000000e+00	9
## 2019-02-27	-3.081624e-14	0
## 2019-03-01	1.400000e+01	14
## 2019-03-08	1.400000e+01	14
## 2019-03-19	1.400000e+01	14
## 2019-03-21	5.000000e+00	5
## 2019-03-22	5.000000e+00	5
## 2019-03-29	-3.300116e-14	0
## 2019-04-02	-3.313794e-14	0
## 2019-04-18	6.994000e+00	7
## 2019-04-23	7.000000e+00	7
## 2019-04-26	7.000000e+00	7
## 2019-04-29	7.000000e+00	7
## 2019-04-30	7.000000e+00	7
## 2019-05-03	-3.147882e-14	0
## 2019-05-07	2.000000e+00	2
## 2019-05-09	2.000000e+00	2
## 2019-05-16	1.600000e+01	16
## 2019-05-20	1.600000e+01	16
## 2019-05-29	1.600000e+01	16
## 2019-05-31	1.600000e+01	16
## 2019-06-03	1.600000e+01	16
## 2019-06-07	-3.301537e-14	0
## 2019-06-28	5.008000e+00	5
## 2019-07-01	-3.207035e-14	0
## 2019-07-10	-3.193712e-14	0
## 2019-07-12	-3.164935e-14	0
## 2019-07-16	-3.134915e-14	0
## 2019-07-19	2.000000e+00	2
## 2019-07-30	2.500000e+01	25
## 2019-07-31	2.500000e+01	25
## 2019-08-01	2.500000e+01	25
## 2019-08-05	2.500000e+01	25
## 2019-08-07	2.500000e+01	25
## 2019-08-09	2.500000e+01	25
## 2019-08-14	2.500000e+01	25
## 2019-08-16	2.500000e+01	25
## 2019-08-19	2.500000e+01	25
## 2019-08-20	2.500000e+01	25
## 2019-08-22	2.500000e+01	25
## 2019-08-27	2.500000e+01	25
## 2019-08-30	2.000000e+00	2

```
## 2019-09-04 -3.052847e-14 0
## 2019-09-09 -3.161382e-14 0
## 2019-09-10 -3.178080e-14 0
## 2019-09-13 -3.162270e-14 0
## 2019-09-16 -3.062439e-14 0
## 2019-09-17 -3.154277e-14 0
## 2019-09-18 1.400000e+01 14
## 2019-09-23 1.400000e+01 14
## 2019-09-24 1.400000e+01 14
## 2019-09-25 1.400000e+01 14
## 2019-10-02 1.400000e+01 14
## 2019-10-08 1.400000e+01 14
## 2019-10-15 -3.063505e-14 0
## 2019-10-18 -3.023537e-14 0
## 2019-10-22 -3.018208e-14 0
## 2019-10-24 -3.059597e-14 0
## 2019-10-29 -3.024248e-14 0
## 2019-11-01 -2.912337e-14 0
## 2019-11-14 8.000000e+00 8
## 2019-11-19 8.000000e+00 8
## 2019-11-22 -2.948219e-14 0
## 2019-11-26 -2.956035e-14 0
## 2019-11-29 9.000000e+00 9
## 2019-12-02 9.000000e+00 9
## 2019-12-06 9.000000e+00 9
## 2019-12-11 8.980000e+00 9
## 2019-12-13 -2.887646e-14 0
## 2019-12-16 -2.907896e-14 0
## 2019-12-18 -2.892975e-14 0
## 2019-12-20 -2.959055e-14 0
## 2019-12-27 -2.755840e-14 0
## 2020-01-02 8.000000e+00 8
## 2020-01-03 8.000000e+00 8
## 2020-01-06 8.000000e+00 8
## 2020-01-09 8.000000e+00 8
## 2020-01-14 8.000000e+00 8
## 2020-01-17 2.000000e+00 2
## 2020-01-31 2.000000e+00 2
## 2020-02-03 2.000000e+00 2
## 2020-02-11 -2.237144e-14 0
## 2020-02-12 -2.030198e-14 0
## 2020-02-19 1.400000e+01 14
## 2020-02-20 1.400000e+01 14
## 2020-02-21 1.400000e+01 14
## 2020-02-28 1.400000e+01 14
## 2020-03-06 1.400000e+01 14
```

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



```

accuracy_rfMod <- (sum/length)
accuracy_rfMod

## [1] 0.3104839

results <- c(round(accuracy_rfMod,2), round(100,2))
results <- as.factor(results)
results <- t(data.frame(results))

colnames(results) <- colnames(predDF)
Results <- rbind(predDF, results)
Results

##               predRF IncreasingDaysThisCycle
## 2007-01-16      0.265999999999992           0
## 2007-01-17      1.188                1
## 2007-01-22      8.008                8
## 2007-01-23      8.024                8
## 2007-01-24      8.04                 8
## 2007-01-26      8.04                 8
## 2007-01-29      8.04                 8
## 2007-01-31      8.008                8
## 2007-02-08 -1.55662149836644e-14         0
## 2007-02-09 -2.04600780762121e-14         0
## 2007-02-16      25                  25
## 2007-02-27      25                  25
## 2007-03-02      25                  25
## 2007-03-07      25                  25
## 2007-03-12      25                  25
## 2007-03-14      25                  25
## 2007-03-19      25                  25
## 2007-03-21     24.804                25
## 2007-03-22      0.0299999999999766        0
## 2007-03-29      3.994                 4
## 2007-04-02       4                   4
## 2007-04-04      1.034                 1
## 2007-04-05      0.0299999999999765        0
## 2007-04-09      0.0299999999999767        0
## 2007-04-13       7                   7
## 2007-04-16       7                   7
## 2007-04-26      21                  21
## 2007-04-27      21                  21
## 2007-05-03      21                  21
## 2007-05-11      21                  21
## 2007-05-18      21                  21
## 2007-05-29 -2.66382471636462e-14         0
## 2007-06-04      12                  12
## 2007-06-05      12                  12
## 2007-06-12      12                  12
## 2007-06-13      12                  12

```

## 2007-06-15	12	12
## 2007-06-18	12	12
## 2007-06-20	0.0319999999999721	0
## 2007-06-26	-2.88942203496845e-14	0
## 2007-06-29	-2.98978619639456e-14	0
## 2007-07-03	-2.93489677005709e-14	0
## 2007-07-11	-2.90203416852819e-14	0
## 2007-07-13	-2.95106161729564e-14	0
## 2007-07-17	1	1
## 2007-07-18	1.038	1
## 2007-07-20	2.008	2
## 2007-07-23	2.012	2
## 2007-08-03	20	20
## 2007-08-08	20	20
## 2007-08-14	20	20
## 2007-08-16	20	20
## 2007-08-17	20	20
## 2007-08-20	20	20
## 2007-08-27	-3.12478931618898e-14	0
## 2007-09-05	-3.14361869868662e-14	0
## 2007-09-13	5	5
## 2007-09-20	9	9
## 2007-09-21	9	9
## 2007-09-24	9	9
## 2007-10-01	9	9
## 2007-10-02	8.96	9
## 2007-10-04	-3.16902060149005e-14	0
## 2007-10-10	-3.17221804380097e-14	0
## 2007-10-22	7	7
## 2007-10-24	3	3
## 2007-10-30	-2.93045587795859e-14	0
## 2007-11-01	10	10
## 2007-11-06	10	10
## 2007-11-13	10	10
## 2007-11-19	9	9
## 2007-11-21	9	9
## 2007-11-26	9	9
## 2007-11-28	9	9
## 2007-11-30	14	14
## 2007-12-03	14	14
## 2007-12-04	14	14
## 2007-12-06	14	14
## 2007-12-10	14	14
## 2007-12-14	14	14
## 2007-12-17	14	14
## 2008-01-03	11	11
## 2008-01-07	11	11
## 2008-01-16	-3.12301295934958e-14	0
## 2008-01-23	-2.90381052536759e-14	0
## 2008-01-24	1	1

## 2008-01-28	-3.17861292842281e-14	0
## 2008-01-31	-3.18571835578041e-14	0
## 2008-02-07	-3.19619886113287e-14	0
## 2008-02-11	1	1
## 2008-02-15	25	25
## 2008-02-28	25	25
## 2008-03-17	25.008	25
## 2008-03-19	25.008	25
## 2008-03-20	24.402	25
## 2008-03-31	-3.04236635884081e-14	0
## 2008-04-03	-3.05728775629177e-14	0
## 2008-04-07	-3.06759062596029e-14	0
## 2008-04-08	12.968	13
## 2008-04-10	13	13
## 2008-04-22	13	13
## 2008-04-24	13	13
## 2008-04-28	-3.06616954048877e-14	0
## 2008-05-06	7	7
## 2008-05-14	7	7
## 2008-05-19	9.996	10
## 2008-05-20	10	10
## 2008-05-29	10	10
## 2008-06-10	20	20
## 2008-06-13	20	20
## 2008-06-16	20	20
## 2008-06-20	20	20
## 2008-06-23	20	20
## 2008-06-25	20	20
## 2008-06-27	20	20
## 2008-07-08	-2.59863242035863e-14	0
## 2008-07-09	5.992	6
## 2008-07-10	6	6
## 2008-07-11	6	6
## 2008-07-29	-3.04076763768535e-14	0
## 2008-08-04	-3.05497849240055e-14	0
## 2008-08-05	-3.06279446249391e-14	0
## 2008-08-06	-3.06279446249391e-14	0
## 2008-08-08	-3.09494652128706e-14	0
## 2008-08-14	-3.11004555442196e-14	0
## 2008-08-18	6.986	7
## 2008-09-02	-3.07309733216243e-14	0
## 2008-09-03	1	1
## 2008-09-05	-2.92708079996373e-14	0
## 2008-09-08	4	4
## 2008-09-09	4	4
## 2008-09-10	4	4
## 2008-09-11	4	4
## 2008-09-12	4	4
## 2008-09-16	0.0139999999999689	0
## 2008-09-18	-3.10471648390376e-14	0

## 2008-09-22	7	7
## 2008-09-25	7	7
## 2008-10-06	8	8
## 2008-10-13	8	8
## 2008-10-14	8	8
## 2008-10-17 -3.07682768152517e-14		0
## 2008-10-21 -3.10116377022496e-14		0
## 2008-10-24 -3.10116377022496e-14		0
## 2008-10-28 -3.10915737600226e-14		0
## 2008-10-30 -3.10915737600226e-14		0
## 2008-11-07	13	13
## 2008-11-18	13	13
## 2008-11-20 12.974		13
## 2008-11-21 12.974		13
## 2008-11-25 2.014		2
## 2008-12-10 -3.1421976132151e-14		0
## 2008-12-15 3		3
## 2008-12-23 -3.04929415051447e-14		0
## 2008-12-24 -3.07274206079455e-14		0
## 2008-12-30 -3.06492609070119e-14		0
## 2008-12-31 -3.07665004584123e-14		0
## 2009-01-02 -3.08943981508492e-14		0
## 2009-01-06 -3.08943981508492e-14		0
## 2009-01-13 8		8
## 2009-01-15 8		8
## 2009-01-21 8		8
## 2009-01-22 8		8
## 2009-02-02 30		30
## 2009-02-03 30		30
## 2009-02-11 30		30
## 2009-02-17 30		30
## 2009-02-19 30		30
## 2009-02-20 30		30
## 2009-02-25 30		30
## 2009-02-26 30		30
## 2009-03-04 30		30
## 2009-03-09 30		30
## 2009-03-12 -2.89492874117059e-14		0
## 2009-03-18 -2.99387181712518e-14		0
## 2009-03-20 7		7
## 2009-03-24 7		7
## 2009-03-26 7		7
## 2009-03-31 1		1
## 2009-04-01 1		1
## 2009-04-07 -2.92086355102583e-14		0
## 2009-04-08 -2.92867952111919e-14		0
## 2009-04-13 -2.97433189189178e-14		0
## 2009-04-14 -2.95994340149264e-14		0
## 2009-04-15 -2.97433189189178e-14		0
## 2009-04-16 -2.9899638320785e-14		0

## 2009-04-17	-2.99777980217186e-14	0
## 2009-04-24	-3.07238678942667e-14	0
## 2009-04-28	0.998	1
## 2009-05-01	3	3
## 2009-05-06	-3.02708969002197e-14	0
## 2009-05-07	16	16
## 2009-05-08	16	16
## 2009-05-11	16	16
## 2009-05-14	16	16
## 2009-05-26	16	16
## 2009-05-28	16	16
## 2009-06-03	1	1
## 2009-06-05	-2.90043544737273e-14	0
## 2009-06-16	16	16
## 2009-06-19	16	16
## 2009-06-23	16	16
## 2009-06-30	16	16
## 2009-07-09	10	10
## 2009-07-10	10	10
## 2009-08-06	-3.00612867931704e-14	0
## 2009-08-12	-2.81037415561514e-14	0
## 2009-08-18	4	4
## 2009-08-24	-3.04751779367507e-14	0
## 2009-08-28	-3.07096570395515e-14	0
## 2009-09-02	5	5
## 2009-09-30	10	10
## 2009-10-01	10	10
## 2009-10-07	10	10
## 2009-10-14	-3.06421554796543e-14	0
## 2009-10-15	-3.06847880437999e-14	0
## 2009-10-26	14	14
## 2009-11-02	14	14
## 2009-11-03	14	14
## 2009-11-04	14	14
## 2009-11-05	13.972	14
## 2009-11-10	-3.03383984601169e-14	0
## 2009-11-11	-3.05533376376843e-14	0
## 2009-11-16	-3.07096570395515e-14	0
## 2009-11-25	-2.98854274660698e-14	0
## 2009-11-30	-2.98854274660698e-14	0
## 2009-12-01	-2.98854274660698e-14	0
## 2009-12-03	-3.01199065688706e-14	0
## 2009-12-08	-3.04183345178899e-14	0
## 2009-12-10	-3.03401748169563e-14	0
## 2009-12-11	-3.07220915374273e-14	0
## 2009-12-14	-3.07220915374273e-14	0
## 2009-12-22	-3.07220915374273e-14	0
## 2009-12-28	-3.07220915374273e-14	0
## 2010-01-04	0.998	1
## 2010-01-06	1	1

## 2010-01-13	-3.13526982154144e-14	0
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## 2010-01-21	-3.13526982154144e-14	0
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## 2016-06-28	15	15
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## 2016-07-14 -3.36459748950801e-14		0
## 2016-07-15 -3.36299876835255e-14		0
## 2016-07-19 -3.34541283564249e-14		0
## 2016-07-20 -3.35571570531101e-14		0
## 2016-07-21 -3.36157768288103e-14		0
## 2016-07-29	1	1
## 2016-08-03	7	7
## 2016-08-08	7	7
## 2016-08-11 -3.3836045076896e-14		0
## 2016-08-17 -3.38467032179324e-14		0
## 2016-08-30 -3.20952153742837e-14		0
## 2016-09-07 -3.41664474490244e-14		0
## 2016-09-13	9.014	9
## 2016-09-21	9	9
## 2016-09-26	9.002	9
## 2016-09-27 -3.37863070853928e-14		0
## 2016-09-30 -3.37845307285534e-14		0
## 2016-10-10 -3.45750095220865e-14		0
## 2016-10-11	1	1
## 2016-10-12	1	1
## 2016-10-13 -3.43884920539495e-14		0
## 2016-10-18 -3.4342306776125e-14		0
## 2016-10-21 -3.43138850666946e-14		0
## 2016-10-25 -3.43138850666946e-14		0
## 2016-10-28	1	1
## 2016-10-31	3	3
## 2016-11-01	3	3
## 2016-11-04 -3.40474315407846e-14		0
## 2016-11-07 -3.39230865620266e-14		0

## 2016-11-17	-3.34150485059581e-14	0
## 2016-11-18	-3.32462946062151e-14	0
## 2016-11-22	-3.33244543071487e-14	0
## 2016-11-28	-3.31876748305149e-14	0
## 2016-11-30	1.046	1
## 2016-12-06	1.996	2
## 2016-12-13	-3.31876748305149e-14	0
## 2016-12-16	1	1
## 2016-12-22	-3.31237259842965e-14	0
## 2016-12-27	-3.31237259842965e-14	0
## 2017-01-17	-3.31876748305149e-14	0
## 2017-01-18	-3.31876748305149e-14	0
## 2017-01-24	3	3
## 2017-01-26	8.002	8
## 2017-01-27	8	8
## 2017-01-31	8	8
## 2017-02-03	8	8
## 2017-02-06	8	8
## 2017-02-09	-3.33866267965277e-14	0
## 2017-02-13	-3.33866267965277e-14	0
## 2017-02-17	-3.33866267965277e-14	0
## 2017-02-27	5	5
## 2017-03-03	13	13
## 2017-03-08	13	13
## 2017-03-09	13	13
## 2017-03-10	13	13
## 2017-03-14	13	13
## 2017-03-17	13	13
## 2017-03-21	13	13
## 2017-03-22	13	13
## 2017-03-29	-3.33795213691701e-14	0
## 2017-04-04	5	5
## 2017-04-05	5	5
## 2017-04-10	5.02	5
## 2017-04-12	-3.38555850021294e-14	0
## 2017-04-25	-3.37774253011958e-14	0
## 2017-05-02	6	6
## 2017-05-08	-3.30384608560053e-14	0
## 2017-05-19	4	4
## 2017-05-23	-3.34328120743521e-14	0
## 2017-05-24	-3.34328120743521e-14	0
## 2017-05-31	-3.33546523734185e-14	0
## 2017-06-01	-3.33546523734185e-14	0
## 2017-06-02	-3.33546523734185e-14	0
## 2017-06-06	-3.33546523734185e-14	0
## 2017-06-09	-3.32196492536241e-14	0
## 2017-06-19	12	12
## 2017-06-23	12	12
## 2017-06-27	12	12
## 2017-06-30	-3.36299876835255e-14	0



## 2017-07-06	-3.28626015289046e-14	0
## 2017-07-11	-3.32391891788575e-14	0
## 2017-07-18	1	1
## 2017-07-21	11	11
## 2017-08-07	18	18
## 2017-08-08	18	18
## 2017-08-10	18	18
## 2017-08-23	18	18
## 2017-08-28	18	18
## 2017-09-08	3.022	3
## 2017-09-26	-3.30331317854871e-14	0
## 2017-09-27	-3.30331317854871e-14	0
## 2017-10-02	-3.30331317854871e-14	0
## 2017-10-04	-3.26050297871916e-14	0
## 2017-10-11	-2.99209546028578e-14	0
## 2017-10-12	-3.05284686419327e-14	0
## 2017-10-17	-3.17594839316371e-14	0
## 2017-10-19	20	20
## 2017-10-20	20	20
## 2017-10-24	20	20
## 2017-11-03	20	20
## 2017-11-07	20	20
## 2017-11-15	19.738	20
## 2017-11-27	-3.14965831194058e-14	0
## 2017-12-07	-3.09494652128706e-14	0
## 2017-12-08	-3.07451841763395e-14	0
## 2017-12-15	-3.07451841763395e-14	0
## 2017-12-19	-3.05107050735387e-14	0
## 2017-12-21	-2.85922396869864e-14	0
## 2018-01-02	1	1
## 2018-01-16	-2.48210341169397e-14	0
## 2018-01-18	-1.93267624126747e-14	0
## 2018-01-25	15	15
## 2018-01-26	15	15
## 2018-01-29	15	15
## 2018-01-30	15	15
## 2018-01-31	15	15
## 2018-02-05	15	15
## 2018-02-12	15	15
## 2018-02-16	-3.24433813148062e-14	0
## 2018-02-23	-3.07913694541639e-14	0
## 2018-03-02	-3.10773629053074e-14	0
## 2018-03-07	1	1
## 2018-03-08	-2.77271539061985e-14	0
## 2018-03-09	-2.60502730498047e-14	0
## 2018-03-12	-2.5785595880734e-14	0
## 2018-03-13	-2.58406629427554e-14	0
## 2018-03-16	11	11
## 2018-03-27	11	11
## 2018-04-04	0.00599999999997034	0

## 2018-04-09	10	10
## 2018-04-10	10	10
## 2018-05-08	3	3
## 2018-05-10	3	3
## 2018-05-11 -3.27613491890588e-14		0
## 2018-05-14 -3.27613491890588e-14		0
## 2018-05-16 -3.2544633654652e-14		0
## 2018-05-17 -3.26174642850674e-14		0
## 2018-05-23 -3.2526870086258e-14		0
## 2018-06-06	1	1
## 2018-06-07	1	1
## 2018-06-08	1	1
## 2018-06-11	18	18
## 2018-06-12	18	18
## 2018-06-15	18	18
## 2018-06-18	18	18
## 2018-06-19	18	18
## 2018-06-22	18	18
## 2018-06-25	18	18
## 2018-06-26	18	18
## 2018-07-03	18	18
## 2018-07-06	18	18
## 2018-07-10	6.994	7
## 2018-07-12	7	7
## 2018-07-13	7	7
## 2018-07-16	7	7
## 2018-07-24 -3.23687743275514e-14		0
## 2018-07-27 -3.27826654711316e-14		0
## 2018-07-30 -3.28093108237226e-14		0
## 2018-08-07	10	10
## 2018-08-16	10	10
## 2018-08-21 -3.266897863341e-14		0
## 2018-08-24 -3.26494387081766e-14		0
## 2018-08-30 -3.24344995306092e-14		0
## 2018-09-06	6	6
## 2018-09-12	6	6
## 2018-09-14 -3.1350921858575e-14		0
## 2018-09-20 -3.08482128730247e-14		0
## 2018-09-21 -3.05746539197571e-14		0
## 2018-10-02	15	15
## 2018-10-04	15	15
## 2018-10-08	15	15
## 2018-10-18	15	15
## 2018-10-19 -3.24593685263608e-14		0
## 2018-10-23	3	3
## 2018-10-24	3	3
## 2018-10-26	3.034	3
## 2018-10-31 -3.20383719554229e-14		0
## 2018-11-02 -3.121769509562e-14		0
## 2018-11-07 -3.01483282783011e-14		0

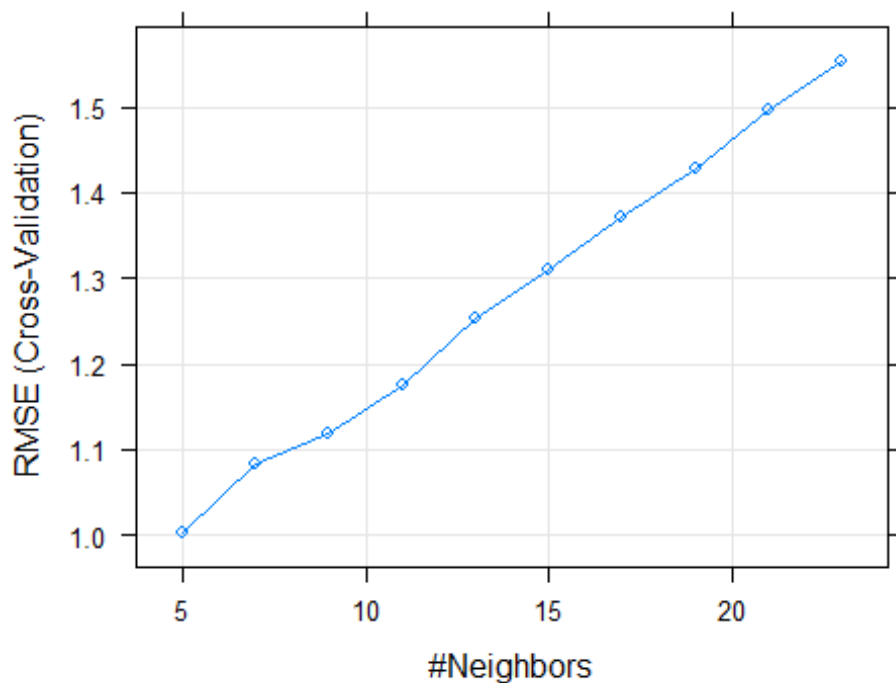
## 2018-11-12	-3.00701685773674e-14	0
## 2018-11-14	-2.98268076903696e-14	0
## 2018-11-26	1	1
## 2018-12-07	15	15
## 2018-12-12	15	15
## 2018-12-14	15	15
## 2018-12-18	15	15
## 2018-12-24	15	15
## 2019-01-03	1	1
## 2019-01-10	2.014	2
## 2019-01-14	-3.0924596217119e-14	0
## 2019-01-15	1	1
## 2019-01-23	1	1
## 2019-01-28	-2.9446667326738e-14	0
## 2019-01-29	-3.03970182358171e-14	0
## 2019-01-30	-3.04041236631747e-14	0
## 2019-02-01	-3.07025516121939e-14	0
## 2019-02-05	-2.85496071228408e-14	0
## 2019-02-15	9	9
## 2019-02-27	-3.08162384499155e-14	0
## 2019-03-01	14	14
## 2019-03-08	14	14
## 2019-03-19	14	14
## 2019-03-21	5	5
## 2019-03-22	5	5
## 2019-03-29	-3.30011573623779e-14	0
## 2019-04-02	-3.31379368390117e-14	0
## 2019-04-18	6.994	7
## 2019-04-23	7	7
## 2019-04-26	7	7
## 2019-04-29	7	7
## 2019-04-30	7	7
## 2019-05-03	-3.14788195510118e-14	0
## 2019-05-07	2	2
## 2019-05-09	2	2
## 2019-05-16	16	16
## 2019-05-20	16	16
## 2019-05-29	16	16
## 2019-05-31	16	16
## 2019-06-03	16	16
## 2019-06-07	-3.30153682170931e-14	0
## 2019-06-28	5.008	5
## 2019-07-01	-3.20703463785321e-14	0
## 2019-07-10	-3.19371196155771e-14	0
## 2019-07-12	-3.16493498075943e-14	0
## 2019-07-16	-3.13491455017356e-14	0
## 2019-07-19	2	2
## 2019-07-30	25	25
## 2019-07-31	25	25
## 2019-08-01	25	25

## 2019-08-05	25	25
## 2019-08-07	25	25
## 2019-08-09	25	25
## 2019-08-14	25	25
## 2019-08-16	25	25
## 2019-08-19	25	25
## 2019-08-20	25	25
## 2019-08-22	25	25
## 2019-08-27	25	25
## 2019-08-30	2	2
## 2019-09-04 -3.05284686419327e-14		0
## 2019-09-09 -3.16138226708063e-14		0
## 2019-09-10 -3.17808002137099e-14		0
## 2019-09-13 -3.16227044550033e-14		0
## 2019-09-16 -3.06243919112603e-14		0
## 2019-09-17 -3.15427683972303e-14		0
## 2019-09-18	14	14
## 2019-09-23	14	14
## 2019-09-24	14	14
## 2019-09-25	14	14
## 2019-10-02	14	14
## 2019-10-08	14	14
## 2019-10-15 -3.06350500522967e-14		0
## 2019-10-18 -3.02353697634317e-14		0
## 2019-10-22 -3.01820790582497e-14		0
## 2019-10-24 -3.05959702018299e-14		0
## 2019-10-29 -3.02424751907893e-14		0
## 2019-11-01 -2.91233703819671e-14		0
## 2019-11-14	8	8
## 2019-11-19	8	8
## 2019-11-22 -2.9482194463526e-14		0
## 2019-11-26 -2.95603541644596e-14		0
## 2019-11-29	9	9
## 2019-12-02	9	9
## 2019-12-06	9	9
## 2019-12-11	8.98	9
## 2019-12-13 -2.88764567812905e-14		0
## 2019-12-16 -2.90789614609821e-14		0
## 2019-12-18 -2.89297474864725e-14		0
## 2019-12-20 -2.95905522307294e-14		0
## 2019-12-27 -2.75584000064555e-14		0
## 2020-01-02	8	8
## 2020-01-03	8	8
## 2020-01-06	8	8
## 2020-01-09	8	8
## 2020-01-14	8	8
## 2020-01-17	2	2
## 2020-01-31	2	2
## 2020-02-03	2	2
## 2020-02-11 -2.23714380354068e-14		0

```
## 2020-02-12 -2.03019823175055e-14      0
## 2020-02-19      14      14
## 2020-02-20      14      14
## 2020-02-21      14      14
## 2020-02-28      14      14
## 2020-03-06      14      14
## results      0.31      100

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

plot(knnMod)
```



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

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

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

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

```

predGLM <- predict(glmMod, testingSet)

length=length(testingSet$incrDaysThisCycle)

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

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

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

accuracy_GLM <- sumGLM/length

predDF2 <- data.frame(predRF,predKNN,predRPART,predGLM,
                      IncreasingDaysThisCycle=testingSet$incrDaysThisCycle)
colnames(predDF2) <- c('RandomForest','KNN','Rpart','GLM','IncreasingDaysThis
Cycle')

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','IncreasingDaysThis
Cycle')
Results <- rbind(predDF2, results)
Results

```

##	RandomForest	KNN	Rpart
## 2007-01-16	0.2659999999999992	0 0.0725581395348837	
## 2007-01-17	1.188	4.4 0.0725581395348837	
## 2007-01-22	8.008	7.4 7.30805687203791	
## 2007-01-23	8.024	7.4 7.30805687203791	
## 2007-01-24	8.04	7.4 7.30805687203791	
## 2007-01-26	8.04	7.4 7.30805687203791	
## 2007-01-29	8.04	7.4 7.30805687203791	
## 2007-01-31	8.008	8.2 7.30805687203791	
## 2007-02-08	-1.55662149836644e-14	0 0.0725581395348837	
## 2007-02-09	-2.04600780762121e-14	0 0.0725581395348837	
## 2007-02-16	25	25	25
## 2007-02-27	25	25	25
## 2007-03-02	25	25	25
## 2007-03-07	25	25	25
## 2007-03-12	25	25	25
## 2007-03-14	25	25	25
## 2007-03-19	25	25	25
## 2007-03-21	24.804	23.5	25

## 2007-03-22	0.0299999999999766	0	0.0725581395348837
## 2007-03-29	3.994	5.8	5.08849557522124
## 2007-04-02	4	4.2	5.08849557522124
## 2007-04-04	1.034	3.4	0.0725581395348837
## 2007-04-05	0.0299999999999765	0	0.0725581395348837
## 2007-04-09	0.0299999999999767	0	0.0725581395348837
## 2007-04-13	7	6.4	7.30805687203791
## 2007-04-16	7	6.4	7.30805687203791
## 2007-04-26	21	21	19.9025974025974
## 2007-04-27	21	21	19.9025974025974
## 2007-05-03	21	21	19.9025974025974
## 2007-05-11	21	21	19.9025974025974
## 2007-05-18	21	21	19.9025974025974
## 2007-05-29	-2.66382471636462e-14	0	0.0725581395348837
## 2007-06-04	12	12	9.98606271777003
## 2007-06-05	12	12	9.98606271777003
## 2007-06-12	12	12	9.98606271777003
## 2007-06-13	12	12	9.98606271777003
## 2007-06-15	12	12	9.98606271777003
## 2007-06-18	12	11.6	9.98606271777003
## 2007-06-20	0.0319999999999721	0	0.0725581395348837
## 2007-06-26	-2.88942203496845e-14	0	0.0725581395348837
## 2007-06-29	-2.98978619639456e-14	0	0.0725581395348837
## 2007-07-03	-2.93489677005709e-14	0	0.0725581395348837
## 2007-07-11	-2.90203416852819e-14	0	0.0725581395348837
## 2007-07-13	-2.95106161729564e-14	0	0.0725581395348837
## 2007-07-17	1	0.2	0.0725581395348837
## 2007-07-18	1.038	4.6	0.0725581395348837
## 2007-07-20	2.008	4.2	2.4468085106383
## 2007-07-23	2.012	4.6	2.4468085106383
## 2007-08-03	20	20	19.9025974025974
## 2007-08-08	20	20	19.9025974025974
## 2007-08-14	20	20	19.9025974025974
## 2007-08-16	20	20	19.9025974025974
## 2007-08-17	20	20	19.9025974025974
## 2007-08-20	20	20	19.9025974025974
## 2007-08-27	-3.12478931618898e-14	0	0.0725581395348837
## 2007-09-05	-3.14361869868662e-14	0	0.0725581395348837
## 2007-09-13	5	5.8	5.08849557522124
## 2007-09-20	9	8.6	9.98606271777003
## 2007-09-21	9	9.2	9.98606271777003
## 2007-09-24	9	9.2	9.98606271777003
## 2007-10-01	9	9.2	9.98606271777003
## 2007-10-02	8.96	9	9.98606271777003
## 2007-10-04	-3.16902060149005e-14	0	0.0725581395348837
## 2007-10-10	-3.17221804380097e-14	0	0.0725581395348837
## 2007-10-22	7	7	7.30805687203791
## 2007-10-24	3	7	2.4468085106383
## 2007-10-30	-2.93045587795859e-14	0	0.0725581395348837
## 2007-11-01	10	9.4	9.98606271777003

## 2007-11-06	10	10	9.98606271777003
## 2007-11-13	10	10	9.98606271777003
## 2007-11-19	9	9.2	9.98606271777003
## 2007-11-21	9	9.2	9.98606271777003
## 2007-11-26	9	9.2	9.98606271777003
## 2007-11-28	9	9.2	9.98606271777003
## 2007-11-30	14	11.8	14.6610878661088
## 2007-12-03	14	14	14.6610878661088
## 2007-12-04	14	14	14.6610878661088
## 2007-12-06	14	14	14.6610878661088
## 2007-12-10	14	14	14.6610878661088
## 2007-12-14	14	14	14.6610878661088
## 2007-12-17	14	14	14.6610878661088
## 2008-01-03	11	11	9.98606271777003
## 2008-01-07	11	11	9.98606271777003
## 2008-01-16 -3.12301295934958e-14		0	0.0725581395348837
## 2008-01-23 -2.90381052536759e-14		0	0.0725581395348837
## 2008-01-24	1	1.4	0.0725581395348837
## 2008-01-28 -3.17861292842281e-14		0	0.0725581395348837
## 2008-01-31 -3.18571835578041e-14		0	0.0725581395348837
## 2008-02-07 -3.19619886113287e-14		0	0.0725581395348837
## 2008-02-11	1	1.6	0.0725581395348837
## 2008-02-15	25	25	25
## 2008-02-28	25	25	25
## 2008-03-17	25.008	25	25
## 2008-03-19	25.008	25	25
## 2008-03-20	24.402	20	25
## 2008-03-31 -3.04236635884081e-14		0	0.0725581395348837
## 2008-04-03 -3.05728775629177e-14		0	0.0725581395348837
## 2008-04-07 -3.06759062596029e-14		0	0.0725581395348837
## 2008-04-08	12.968	10	14.6610878661088
## 2008-04-10	13	13	14.6610878661088
## 2008-04-22	13	13	14.6610878661088
## 2008-04-24	13	13	14.6610878661088
## 2008-04-28 -3.06616954048877e-14		0	0.0725581395348837
## 2008-05-06	7	5.8	7.30805687203791
## 2008-05-14	7	7	7.30805687203791
## 2008-05-19	9.996	9.2	9.98606271777003
## 2008-05-20	10	10	9.98606271777003
## 2008-05-29	10	10	9.98606271777003
## 2008-06-10	20	20	19.9025974025974
## 2008-06-13	20	20	19.9025974025974
## 2008-06-16	20	20	19.9025974025974
## 2008-06-20	20	20	19.9025974025974
## 2008-06-23	20	20	19.9025974025974
## 2008-06-25	20	20	19.9025974025974
## 2008-06-27	20	20	19.9025974025974
## 2008-07-08 -2.59863242035863e-14		0	0.0725581395348837
## 2008-07-09	5.992	6.4	5.08849557522124
## 2008-07-10	6	6.4	5.08849557522124



## 2008-07-11	6	6.4	5.08849557522124
## 2008-07-29	-3.04076763768535e-14	0	0.0725581395348837
## 2008-08-04	-3.05497849240055e-14	0	0.0725581395348837
## 2008-08-05	-3.06279446249391e-14	0	0.0725581395348837
## 2008-08-06	-3.06279446249391e-14	0	0.0725581395348837
## 2008-08-08	-3.09494652128706e-14	0	0.0725581395348837
## 2008-08-14	-3.11004555442196e-14	0	0.0725581395348837
## 2008-08-18	6.986	6.6	7.30805687203791
## 2008-09-02	-3.07309733216243e-14	0	0.0725581395348837
## 2008-09-03	1	1.8	0.0725581395348837
## 2008-09-05	-2.92708079996373e-14	0	0.0725581395348837
## 2008-09-08	4	3.4	5.08849557522124
## 2008-09-09	4	4.4	5.08849557522124
## 2008-09-10	4	4	5.08849557522124
## 2008-09-11	4	4.83333333333333	5.08849557522124
## 2008-09-12	4	3.8	5.08849557522124
## 2008-09-16	0.0139999999999689	0	0.0725581395348837
## 2008-09-18	-3.10471648390376e-14	0	0.0725581395348837
## 2008-09-22	7	7	7.30805687203791
## 2008-09-25	7	7	7.30805687203791
## 2008-10-06	8	7.8	7.30805687203791
## 2008-10-13	8	7.8	7.30805687203791
## 2008-10-14	8	7.8	7.30805687203791
## 2008-10-17	-3.07682768152517e-14	0	0.0725581395348837
## 2008-10-21	-3.10116377022496e-14	0	0.0725581395348837
## 2008-10-24	-3.10116377022496e-14	0	0.0725581395348837
## 2008-10-28	-3.10915737600226e-14	0	0.0725581395348837
## 2008-10-30	-3.10915737600226e-14	0	0.0725581395348837
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## 2008-11-18	13	13	14.6610878661088
## 2008-11-20	12.974	13	14.6610878661088
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## 2008-11-25	2.014	1.4	2.4468085106383
## 2008-12-10	-3.1421976132151e-14	0	0.0725581395348837
## 2008-12-15	3	3.2	2.4468085106383
## 2008-12-23	-3.04929415051447e-14	0	0.0725581395348837
## 2008-12-24	-3.07274206079455e-14	0	0.0725581395348837
## 2008-12-30	-3.06492609070119e-14	0	0.0725581395348837
## 2008-12-31	-3.07665004584123e-14	0	0.0725581395348837
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## 2009-01-06	-3.08943981508492e-14	0	0.0725581395348837
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## 2009-01-15	8	7.8	7.30805687203791
## 2009-01-21	8	7.8	7.30805687203791
## 2009-01-22	8	7.8	7.30805687203791
## 2009-02-02	30	30	29.4772727272727
## 2009-02-03	30	30	29.4772727272727
## 2009-02-11	30	30	29.4772727272727
## 2009-02-17	30	30	29.4772727272727
## 2009-02-19	30	30	29.4772727272727

## 2009-02-20	30	30	29.4772727272727
## 2009-02-25	30	30	29.4772727272727
## 2009-02-26	30	30	29.4772727272727
## 2009-03-04	30	30	29.4772727272727
## 2009-03-09	30	30	29.4772727272727
## 2009-03-12	-2.89492874117059e-14	0	0.0725581395348837
## 2009-03-18	-2.99387181712518e-14	0	0.0725581395348837
## 2009-03-20	7	7.4	7.30805687203791
## 2009-03-24	7	7.4	7.30805687203791
## 2009-03-26	7	7.4	7.30805687203791
## 2009-03-31	1	1.4	0.0725581395348837
## 2009-04-01	1	4.6	0.0725581395348837
## 2009-04-07	-2.92086355102583e-14	0	0.0725581395348837
## 2009-04-08	-2.92867952111919e-14	0	0.0725581395348837
## 2009-04-13	-2.97433189189178e-14	0	0.0725581395348837
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## 2009-04-15	-2.97433189189178e-14	0	0.0725581395348837
## 2009-04-16	-2.9899638320785e-14	0	0.0725581395348837
## 2009-04-17	-2.99777980217186e-14	0	0.0725581395348837
## 2009-04-24	-3.07238678942667e-14	0	0.0725581395348837
## 2009-04-28	0.998	1	0.0725581395348837
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## 2009-05-06	-3.02708969002197e-14	0	0.0725581395348837
## 2009-05-07	16	14	14.6610878661088
## 2009-05-08	16	16	14.6610878661088
## 2009-05-11	16	16	14.6610878661088
## 2009-05-14	16	16	14.6610878661088
## 2009-05-26	16	16	14.6610878661088
## 2009-05-28	16	16	14.6610878661088
## 2009-06-03	1	1.4	0.0725581395348837
## 2009-06-05	-2.90043544737273e-14	0	0.0725581395348837
## 2009-06-16	16	16	14.6610878661088
## 2009-06-19	16	16	14.6610878661088
## 2009-06-23	16	16	14.6610878661088
## 2009-06-30	16	16	14.6610878661088
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## 2009-07-10	10	10	9.98606271777003
## 2009-08-06	-3.00612867931704e-14	0	0.0725581395348837
## 2009-08-12	-2.81037415561514e-14	0	0.0725581395348837
## 2009-08-18	4	4.6	5.08849557522124
## 2009-08-24	-3.04751779367507e-14	0	0.0725581395348837
## 2009-08-28	-3.07096570395515e-14	0	0.0725581395348837
## 2009-09-02	5	4.6	5.08849557522124
## 2009-09-30	10	10	9.98606271777003
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## 2009-10-14	-3.06421554796543e-14	0	0.0725581395348837
## 2009-10-15	-3.06847880437999e-14	0	0.0725581395348837
## 2009-10-26	14	14	14.6610878661088
## 2009-11-02	14	14	14.6610878661088

## 2009-11-03	14	14	14.6610878661088
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## 2009-11-05	13.972	13	14.6610878661088
## 2009-11-10	-3.03383984601169e-14	0	0.0725581395348837
## 2009-11-11	-3.05533376376843e-14	0	0.0725581395348837
## 2009-11-16	-3.07096570395515e-14	0	0.0725581395348837
## 2009-11-25	-2.98854274660698e-14	0	0.0725581395348837
## 2009-11-30	-2.98854274660698e-14	0	0.0725581395348837
## 2009-12-01	-2.98854274660698e-14	0	0.0725581395348837
## 2009-12-03	-3.01199065688706e-14	0	0.0725581395348837
## 2009-12-08	-3.04183345178899e-14	0	0.0725581395348837
## 2009-12-10	-3.03401748169563e-14	0	0.0725581395348837
## 2009-12-11	-3.07220915374273e-14	0	0.0725581395348837
## 2009-12-14	-3.07220915374273e-14	0	0.0725581395348837
## 2009-12-22	-3.07220915374273e-14	0	0.0725581395348837
## 2009-12-28	-3.07220915374273e-14	0	0.0725581395348837
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## 2010-01-06	1	1.6	0.0725581395348837
## 2010-01-13	-3.13526982154144e-14	0	0.0725581395348837
## 2010-01-14	-3.14184234184722e-14	0	0.0725581395348837
## 2010-01-21	-3.13526982154144e-14	0	0.0725581395348837
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## 2010-01-28	5	4.8	5.08849557522124
## 2010-02-02	-3.01163538551918e-14	0	0.0725581395348837
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## 2010-02-11	-3.01891844856073e-14	0	0.0725581395348837
## 2010-02-12	-3.01891844856073e-14	0	0.0725581395348837
## 2010-02-16	-3.02673441865409e-14	0	0.0725581395348837
## 2010-02-18	-3.01891844856073e-14	0	0.0725581395348837
## 2010-02-19	-3.02673441865409e-14	0	0.0725581395348837
## 2010-02-25	-3.02673441865409e-14	0	0.0725581395348837
## 2010-03-02	-3.04627434388749e-14	0	0.0725581395348837
## 2010-03-04	-3.03455038874745e-14	0	0.0725581395348837
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## 2010-03-16	-3.05888647744723e-14	0	0.0725581395348837
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## 2010-04-08	-3.1421976132151e-14	0	0.0725581395348837
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## 2010-04-28	-3.13438164312174e-14	0	0.0725581395348837
## 2010-05-03	-3.13438164312174e-14	0	0.0725581395348837
## 2010-05-04	-3.12816439418384e-14	0	0.0725581395348837
## 2010-05-05	-3.12816439418384e-14	0	0.0725581395348837
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## 2010-05-12	4.024	4.2	5.08849557522124
## 2010-05-17	-3.16102699571275e-14	0	0.0725581395348837
## 2010-05-20	2.06	2.2	2.4468085106383
## 2010-06-04	3	3.6	2.4468085106383
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## 2010-06-09	3	3	2.4468085106383

## 2010-06-11	-3.22728510582237e-14	0	0.0725581395348837
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## 2010-06-18	-3.24131832485364e-14	0	0.0725581395348837
## 2010-06-25	10	10	9.98606271777003
## 2010-07-07	-3.16759951601853e-14	0	0.0725581395348837
## 2010-07-19	3	2.8	2.4468085106383
## 2010-07-20	3	3	2.4468085106383
## 2010-07-23	-3.25819371482794e-14	0	0.0725581395348837
## 2010-07-26	-3.23527871159968e-14	0	0.0725581395348837
## 2010-08-02	-3.25144355883822e-14	0	0.0725581395348837
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## 2010-08-16	9	8.6	9.98606271777003
## 2010-08-18	10	10	9.98606271777003
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## 2010-08-24	10	10	9.98606271777003
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## 2010-08-31	10	9.6	9.98606271777003
## 2010-09-01	-3.19513304702923e-14	0	0.0725581395348837
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## 2010-09-10	6	6.6	5.08849557522124
## 2010-09-13	6	6.6	5.08849557522124
## 2010-09-16	6	6.6	5.08849557522124
## 2010-10-08	1	2.2	0.0725581395348837
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## 2010-10-18	-3.2269298344545e-14	0	0.0725581395348837
## 2010-10-21	-3.22053494983265e-14	0	0.0725581395348837
## 2010-10-25	-3.22000204278083e-14	0	0.0725581395348837
## 2010-10-28	-3.23616689001938e-14	0	0.0725581395348837
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## 2011-02-03	7	7	7.30805687203791
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## 2011-02-10	6.994	7.6	7.30805687203791

## 2011-02-11	-3.20667936648533e-14	0	0.0725581395348837
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## 2011-02-25	11	11	9.98606271777003
## 2011-02-28	11	11	9.98606271777003
## 2011-03-09	-3.17061932264551e-14	0	0.0725581395348837
## 2011-03-16	1	2.8	0.0725581395348837
## 2011-03-23	3	2.6	2.4468085106383
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## 2011-06-28	-3.18802761967163e-14	0	0.0725581395348837
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## 2011-07-14	29	29	29.4772727272727
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## 2011-10-13	-3.04893887914659e-14	0	0.0725581395348837
## 2011-10-17	-3.00524050089734e-14	0	0.0725581395348837
## 2011-10-24	5	4.2	5.08849557522124

## 2011-10-28	2.998	2.4	2.4468085106383
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## 2011-11-30	-2.97006863547722e-14	0	0.0725581395348837
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## 2011-12-05	-2.9961810810164e-14	0	0.0725581395348837
## 2011-12-12	-2.98321367608878e-14	0	0.0725581395348837
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## 2012-01-20	-3.07025516121939e-14	0	0.0725581395348837
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## 2012-03-13	19.97	15.2	19.9025974025974
## 2012-03-15	-3.03419511737957e-14	0	0.0725581395348837
## 2012-03-28	-3.07132097532303e-14	0	0.0725581395348837
## 2012-04-11	-3.03170821780441e-14	0	0.0725581395348837
## 2012-04-13	-3.05231395714145e-14	0	0.0725581395348837
## 2012-04-20	-3.09725578517828e-14	0	0.0725581395348837
## 2012-04-25	-3.1075586548468e-14	0	0.0725581395348837
## 2012-05-03	-3.15765191771789e-14	0	0.0725581395348837
## 2012-05-04	-3.16653370191489e-14	0	0.0725581395348837
## 2012-05-10	-3.16617843054701e-14	0	0.0725581395348837
## 2012-05-14	-3.13473691448962e-14	0	0.0725581395348837
## 2012-05-17	5	5.6	5.08849557522124
## 2012-05-22	5	5.6	5.08849557522124
## 2012-06-04	6	6.2	5.08849557522124
## 2012-06-06	6	5.8	5.08849557522124
## 2012-06-12	5.992	5.8	5.08849557522124
## 2012-06-15	-3.26814131312858e-14	0	0.0725581395348837
## 2012-06-26	-3.29158922340866e-14	0	0.0725581395348837
## 2012-07-12	-3.2837732533153e-14	0	0.0725581395348837
## 2012-07-13	-3.2837732533153e-14	0	0.0725581395348837
## 2012-07-16	-3.2837732533153e-14	0	0.0725581395348837
## 2012-07-18	23	23	19.9025974025974
## 2012-07-23	23	23	19.9025974025974

## 2012-07-25	23	23	19.9025974025974
## 2012-07-26	23	23	19.9025974025974
## 2012-07-27	23	23	19.9025974025974
## 2012-07-31	23	23	19.9025974025974
## 2012-08-06	23	23	19.9025974025974
## 2012-08-07	23	23	19.9025974025974
## 2012-08-08	23	23	19.9025974025974
## 2012-08-22 -3.13846726385236e-14		0	0.0725581395348837
## 2012-08-29	4	3.8	5.08849557522124
## 2012-09-07 -3.17150750106521e-14		0	0.0725581395348837
## 2012-09-18	9	9.2	9.98606271777003
## 2012-09-20	9	9.2	9.98606271777003
## 2012-09-21	9	9.2	9.98606271777003
## 2012-09-25	9	9.2	9.98606271777003
## 2012-09-26	9	7	9.98606271777003
## 2012-09-27	1	2.2	0.0725581395348837
## 2012-10-04 -3.16955350854187e-14		0	0.0725581395348837
## 2012-10-11	3	4	2.4468085106383
## 2012-10-23 -3.20490300964593e-14		0	0.0725581395348837
## 2012-10-24 -3.22533111329903e-14		0	0.0725581395348837
## 2012-11-02 -3.23741033980696e-14		0	0.0725581395348837
## 2012-11-12	1	1.8	0.0725581395348837
## 2012-11-26 -3.22586402035085e-14		0	0.0725581395348837
## 2012-11-28 -3.22586402035085e-14		0	0.0725581395348837
## 2012-11-30 -3.22586402035085e-14		0	0.0725581395348837
## 2012-12-03	6	5.4	5.08849557522124
## 2012-12-10	6	5.8	5.08849557522124
## 2012-12-11	6.002	4.8	5.08849557522124
## 2012-12-12 -3.24504867421638e-14		0	0.0725581395348837
## 2012-12-21 -3.25695026504036e-14		0	0.0725581395348837
## 2012-12-28	1	2.4	0.0725581395348837
## 2012-12-31 -3.27613491890588e-14		0	0.0725581395348837
## 2013-01-02 -3.27613491890588e-14		0	0.0725581395348837
## 2013-01-14	5.004	4	5.08849557522124
## 2013-01-18	5	5	5.08849557522124
## 2013-01-25 -3.22248894235599e-14		0	0.0725581395348837
## 2013-01-31	7	7.2	7.30805687203791
## 2013-02-05	7	6.8	7.30805687203791
## 2013-02-07 -3.25233173725792e-14		0	0.0725581395348837
## 2013-02-12 -3.24185123190546e-14		0	0.0725581395348837
## 2013-02-13	9.998	7.6	9.98606271777003
## 2013-02-14	10	10	9.98606271777003
## 2013-02-15	10	10	9.98606271777003
## 2013-02-26	10	10	9.98606271777003
## 2013-02-27	10	10	9.98606271777003
## 2013-03-01 -3.32889271703607e-14		0	0.0725581395348837
## 2013-03-04 -3.32889271703607e-14		0	0.0725581395348837
## 2013-03-05 -3.32889271703607e-14		0	0.0725581395348837
## 2013-03-06 -3.32889271703607e-14		0	0.0725581395348837
## 2013-03-11 -3.33066907387547e-14		0	0.0725581395348837

## 2013-03-12	-3.33066907387547e-14	0	0.0725581395348837
## 2013-03-21	-3.34630101406219e-14	0	0.0725581395348837
## 2013-04-03	8	8	7.30805687203791
## 2013-04-05	8	8	7.30805687203791
## 2013-04-11	-2.95159452434746e-14	0	0.0725581395348837
## 2013-04-12	1	2.2	0.0725581395348837
## 2013-04-17	-3.25695026504036e-14	0	0.0725581395348837
## 2013-04-19	1.02	2	0.0725581395348837
## 2013-04-26	-3.35624861236283e-14	0	0.0725581395348837
## 2013-05-06	-3.35340644141979e-14	0	0.0725581395348837
## 2013-05-08	-3.35340644141979e-14	0	0.0725581395348837
## 2013-05-16	-3.36388694677225e-14	0	0.0725581395348837
## 2013-05-17	-3.36388694677225e-14	0	0.0725581395348837
## 2013-05-20	-3.35713679078253e-14	0	0.0725581395348837
## 2013-05-23	15	13	14.6610878661088
## 2013-06-06	15	15	14.6610878661088
## 2013-06-12	15	15	14.6610878661088
## 2013-06-13	15	15	14.6610878661088
## 2013-06-14	15	11.4	14.6610878661088
## 2013-06-18	8.002	4.8	7.30805687203791
## 2013-06-20	8	8	7.30805687203791
## 2013-06-21	8	8	7.30805687203791
## 2013-06-24	8	8	7.30805687203791
## 2013-06-25	7.998	8	7.30805687203791
## 2013-07-01	-3.31841221168361e-14	0	0.0725581395348837
## 2013-07-10	-3.32498473198939e-14	0	0.0725581395348837
## 2013-07-16	-3.33315597345063e-14	0	0.0725581395348837
## 2013-07-18	-3.33848504396883e-14	0	0.0725581395348837
## 2013-07-19	-3.33848504396883e-14	0	0.0725581395348837
## 2013-07-23	-3.33297833776669e-14	0	0.0725581395348837
## 2013-07-30	-3.34559047132643e-14	0	0.0725581395348837
## 2013-08-05	13.772	12.4	14.6610878661088
## 2013-08-08	14	14.2	14.6610878661088
## 2013-08-12	14	14	14.6610878661088
## 2013-08-28	2	3	2.4468085106383
## 2013-09-06	-3.34967609205705e-14	0	0.0725581395348837
## 2013-09-10	-3.35873551193799e-14	0	0.0725581395348837
## 2013-09-12	-3.35624861236283e-14	0	0.0725581395348837
## 2013-09-17	-3.36530803224377e-14	0	0.0725581395348837
## 2013-09-18	-3.36530803224377e-14	0	0.0725581395348837
## 2013-09-19	-3.36637384634741e-14	0	0.0725581395348837
## 2013-09-20	-3.36637384634741e-14	0	0.0725581395348837
## 2013-09-26	-3.36637384634741e-14	0	0.0725581395348837
## 2013-10-02	-3.29780647234657e-14	0	0.0725581395348837
## 2013-10-03	-3.30366844991659e-14	0	0.0725581395348837
## 2013-10-04	-3.30366844991659e-14	0	0.0725581395348837
## 2013-10-10	-3.30366844991659e-14	0	0.0725581395348837
## 2013-10-14	1.02	3.8	0.0725581395348837
## 2013-10-25	-3.33351124481851e-14	0	0.0725581395348837
## 2013-11-01	-3.30651062085963e-14	0	0.0725581395348837



## 2013-11-05	-3.31148442000995e-14	0	0.0725581395348837
## 2013-11-06	1.004	3.2	0.0725581395348837
## 2013-11-07	1	1.4	0.0725581395348837
## 2013-11-13	-3.35376171278767e-14	0	0.0725581395348837
## 2013-11-15	-3.36246586130073e-14	0	0.0725581395348837
## 2013-11-20	-3.35145244889645e-14	0	0.0725581395348837
## 2013-11-26	8	7.4	7.30805687203791
## 2013-11-27	8	7.6	7.30805687203791
## 2013-12-03	8	8	7.30805687203791
## 2013-12-04	8	8	7.30805687203791
## 2013-12-06	8	1.8	7.30805687203791
## 2013-12-10	-3.35660388373071e-14	0	0.0725581395348837
## 2013-12-16	-3.34932082068917e-14	0	0.0725581395348837
## 2013-12-18	-3.34292593606733e-14	0	0.0725581395348837
## 2013-12-19	-3.34292593606733e-14	0	0.0725581395348837
## 2013-12-26	5	7.2	5.08849557522124
## 2013-12-27	5	7.2	5.08849557522124
## 2013-12-31	5	7.2	5.08849557522124
## 2014-01-02	5.012	5.4	5.08849557522124
## 2014-01-07	-3.28235216784378e-14	0	0.0725581395348837
## 2014-01-10	-3.27009530565192e-14	0	0.0725581395348837
## 2014-01-13	-3.28235216784378e-14	0	0.0725581395348837
## 2014-01-21	-3.27613491890588e-14	0	0.0725581395348837
## 2014-01-24	-3.27204929817526e-14	0	0.0725581395348837
## 2014-02-04	-3.24718030242366e-14	0	0.0725581395348837
## 2014-02-06	-3.23439053317998e-14	0	0.0725581395348837
## 2014-02-11	-3.17630366453159e-14	0	0.0725581395348837
## 2014-02-18	2	2.6	2.4468085106383
## 2014-02-25	-3.14646086962966e-14	0	0.0725581395348837
## 2014-02-28	-3.15090176172816e-14	0	0.0725581395348837
## 2014-03-03	-3.20952153742837e-14	0	0.0725581395348837
## 2014-03-04	-3.15978354592517e-14	0	0.0725581395348837
## 2014-03-07	-3.20294901712259e-14	0	0.0725581395348837
## 2014-03-11	-3.18909343377527e-14	0	0.0725581395348837
## 2014-03-14	7	7	7.30805687203791
## 2014-04-10	7	7	7.30805687203791
## 2014-04-17	7	7	7.30805687203791
## 2014-04-24	-3.19904103207591e-14	0	0.0725581395348837
## 2014-05-01	2	1.6	2.4468085106383
## 2014-05-13	-3.30064864328961e-14	0	0.0725581395348837
## 2014-05-16	-3.2811087180562e-14	0	0.0725581395348837
## 2014-05-21	3	2.6	2.4468085106383
## 2014-05-27	-3.30633298517569e-14	0	0.0725581395348837
## 2014-06-02	-3.29833937939839e-14	0	0.0725581395348837
## 2014-06-03	-3.29567484413928e-14	0	0.0725581395348837
## 2014-06-10	-3.2606806144031e-14	0	0.0725581395348837
## 2014-06-16	6	5.8	5.08849557522124
## 2014-06-23	-3.21591642205021e-14	0	0.0725581395348837
## 2014-06-24	-3.22373239214357e-14	0	0.0725581395348837
## 2014-06-25	-3.22373239214357e-14	0	0.0725581395348837

## 2014-06-26	-3.21591642205021e-14	0	0.0725581395348837
## 2014-07-10	8.988	9	9.98606271777003
## 2014-07-15	-3.22213367098811e-14	0	0.0725581395348837
## 2014-07-21	1.996	2.4	2.4468085106383
## 2014-07-29	15	15	14.6610878661088
## 2014-07-31	15	15	14.6610878661088
## 2014-08-08	15	15	14.6610878661088
## 2014-08-12	15	15	14.6610878661088
## 2014-08-15	-3.31592531210845e-14	0	0.0725581395348837
## 2014-08-20	-3.30349081423265e-14	0	0.0725581395348837
## 2014-08-26	5	5.4	5.08849557522124
## 2014-09-03	9	9	9.98606271777003
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## 2014-09-05	9	9	9.98606271777003
## 2014-09-15	9	7.8	9.98606271777003
## 2014-09-17	1	1.6	0.0725581395348837
## 2014-09-29	10	10	9.98606271777003
## 2014-10-08	9	9.2	9.98606271777003
## 2014-10-10	9	9	9.98606271777003
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## 2014-10-21	-3.27808891142922e-14	0	0.0725581395348837
## 2014-10-22	-3.24416049579668e-14	0	0.0725581395348837
## 2014-10-24	-3.32534000335727e-14	0	0.0725581395348837
## 2014-10-30	-3.31699112621209e-14	0	0.0725581395348837
## 2014-10-31	-3.30899752043479e-14	0	0.0725581395348837
## 2014-11-12	-3.25144355883822e-14	0	0.0725581395348837
## 2014-11-14	-3.21556115068233e-14	0	0.0725581395348837
## 2014-11-28	-3.24664739537184e-14	0	0.0725581395348837
## 2014-12-04	-3.21893622867719e-14	0	0.0725581395348837
## 2014-12-08	1	2	0.0725581395348837
## 2014-12-12	-3.15321102561938e-14	0	0.0725581395348837
## 2014-12-16	2	2	2.4468085106383
## 2014-12-22	-3.16422443802367e-14	0	0.0725581395348837
## 2014-12-24	-3.10986791873802e-14	0	0.0725581395348837
## 2015-01-02	-2.84199330735646e-14	0	0.0725581395348837
## 2015-01-08	6.972	8.4	7.30805687203791
## 2015-01-27	-3.04254399452475e-14	0	0.0725581395348837
## 2015-02-02	10	10	9.98606271777003
## 2015-02-09	10	10	9.98606271777003
## 2015-02-12	2	2	2.4468085106383
## 2015-02-24	-3.12105896682624e-14	0	0.0725581395348837
## 2015-02-25	-3.18429727030889e-14	0	0.0725581395348837
## 2015-03-03	10	10	9.98606271777003
## 2015-03-09	10	10	9.98606271777003
## 2015-03-10	10	10	9.98606271777003
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## 2015-03-19	-2.71231925808024e-14	0	0.0725581395348837
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## 2015-03-26	14	14	14.6610878661088
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## 2015-04-22	-3.10649284074316e-14	0	0.0725581395348837
## 2015-04-23	-3.1102231901059e-14	0	0.0725581395348837
## 2015-04-24	-3.02726732570591e-14	0	0.0725581395348837
## 2015-05-08	-2.92690316427979e-14	0	0.0725581395348837
## 2015-05-13	2.014	2	2.4468085106383
## 2015-05-18	9	9.8	9.98606271777003
## 2015-05-22	9	9	9.98606271777003
## 2015-05-26	8.982	9	9.98606271777003
## 2015-05-29	8.982	8.2	9.98606271777003
## 2015-06-05	8	8	7.30805687203791
## 2015-06-08	8	8	7.30805687203791
## 2015-06-11	8	8	7.30805687203791
## 2015-06-29	8	8	7.30805687203791
## 2015-06-30	8	8	7.30805687203791
## 2015-07-07	8	8	7.30805687203791
## 2015-07-13	-3.13757908543266e-14	0	0.0725581395348837
## 2015-07-15	-3.13988834932388e-14	0	0.0725581395348837
## 2015-07-24	3	2.6	2.4468085106383
## 2015-08-04	-3.11661807472774e-14	0	0.0725581395348837
## 2015-08-05	-3.10329539843224e-14	0	0.0725581395348837
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## 2015-08-12	1.996	2.6	2.4468085106383
## 2015-08-21	9	8.8	9.98606271777003
## 2015-08-24	9	8.6	9.98606271777003
## 2015-08-25	9	8.6	9.98606271777003
## 2015-08-27	9	8.6	9.98606271777003
## 2015-09-01	9.002	7.6	9.98606271777003
## 2015-09-15	-3.22657456308662e-14	0	0.0725581395348837
## 2015-09-16	-3.23456816886392e-14	0	0.0725581395348837
## 2015-09-18	-3.23456816886392e-14	0	0.0725581395348837
## 2015-09-23	11	11	9.98606271777003
## 2015-10-02	11	11	9.98606271777003
## 2015-10-19	-3.23510107591574e-14	0	0.0725581395348837
## 2015-10-22	-3.25677262935642e-14	0	0.0725581395348837
## 2015-10-23	-3.24789084515942e-14	0	0.0725581395348837
## 2015-11-04	18	18	19.9025974025974
## 2015-11-05	18	18	19.9025974025974
## 2015-11-09	18	18	19.9025974025974
## 2015-11-11	18	18	19.9025974025974
## 2015-11-13	18	18	19.9025974025974
## 2015-11-17	18	18	19.9025974025974
## 2015-11-18	18	18	19.9025974025974
## 2015-11-19	18	18	19.9025974025974
## 2015-11-30	17.812	16.6	19.9025974025974
## 2015-12-01	-3.31894511873543e-14	0	0.0725581395348837
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## 2015-12-07	-3.31912275441937e-14	0	0.0725581395348837
## 2015-12-08	-3.31752403326391e-14	0	0.0725581395348837
## 2015-12-11	7	7	7.30805687203791
## 2015-12-14	7	7	7.30805687203791

## 2015-12-29	-3.31521476937269e-14	0	0.0725581395348837
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## 2016-01-07	9	9	9.98606271777003
## 2016-01-14	6.986	6.6	7.30805687203791
## 2016-01-19	7	7	7.30805687203791
## 2016-01-21	7	7	7.30805687203791
## 2016-01-26	7	5.6	7.30805687203791
## 2016-02-08	11	11	9.98606271777003
## 2016-02-09	11	11	9.98606271777003
## 2016-02-11	11.046	9.6	9.98606271777003
## 2016-02-18	-3.37241345960138e-14	0	0.0725581395348837
## 2016-02-22	-3.36637384634741e-14	0	0.0725581395348837
## 2016-02-23	-3.37436745212472e-14	0	0.0725581395348837
## 2016-02-29	-3.36637384634741e-14	0	0.0725581395348837
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## 2016-03-08	1	2.2	0.0725581395348837
## 2016-03-11	-3.37863070853928e-14	0	0.0725581395348837
## 2016-03-16	-3.3809399724305e-14	0	0.0725581395348837
## 2016-03-22	14	11.6	14.6610878661088
## 2016-03-24	14	14	14.6610878661088
## 2016-03-31	14	14	14.6610878661088
## 2016-04-13	-3.42126327268488e-14	0	0.0725581395348837
## 2016-04-20	-3.39586136988146e-14	0	0.0725581395348837
## 2016-04-26	21	21	19.9025974025974
## 2016-04-27	21	21	19.9025974025974
## 2016-05-11	21	21	19.9025974025974
## 2016-05-16	21	21	19.9025974025974
## 2016-05-17	21	21	19.9025974025974
## 2016-05-18	21	21	19.9025974025974
## 2016-05-19	21	21	19.9025974025974
## 2016-05-26	7	7	7.30805687203791
## 2016-05-27	7	7	7.30805687203791
## 2016-06-01	7	7	7.30805687203791
## 2016-06-03	7	7	7.30805687203791
## 2016-06-08	-3.4040326113427e-14	0	0.0725581395348837
## 2016-06-16	15	15	14.6610878661088
## 2016-06-23	15	15	14.6610878661088
## 2016-06-28	15	15	14.6610878661088
## 2016-07-07	-3.36015659740951e-14	0	0.0725581395348837
## 2016-07-14	-3.36459748950801e-14	0	0.0725581395348837
## 2016-07-15	-3.36299876835255e-14	0	0.0725581395348837
## 2016-07-19	-3.34541283564249e-14	0	0.0725581395348837
## 2016-07-20	-3.35571570531101e-14	0	0.0725581395348837
## 2016-07-21	-3.36157768288103e-14	0	0.0725581395348837
## 2016-07-29	1	2	0.0725581395348837
## 2016-08-03	7	7	7.30805687203791
## 2016-08-08	7	7	7.30805687203791
## 2016-08-11	-3.3836045076896e-14	0	0.0725581395348837
## 2016-08-17	-3.38467032179324e-14	0	0.0725581395348837
## 2016-08-30	-3.20952153742837e-14	0	0.0725581395348837

## 2016-09-07	-3.41664474490244e-14	0	0.0725581395348837
## 2016-09-13	9.014	7.2	9.98606271777003
## 2016-09-21	9	9	9.98606271777003
## 2016-09-26	9.002	8	9.98606271777003
## 2016-09-27	-3.37863070853928e-14	0	0.0725581395348837
## 2016-09-30	-3.37845307285534e-14	0	0.0725581395348837
## 2016-10-10	-3.45750095220865e-14	0	0.0725581395348837
## 2016-10-11	1	2.8	0.0725581395348837
## 2016-10-12	1	3.2	0.0725581395348837
## 2016-10-13	-3.43884920539495e-14	0	0.0725581395348837
## 2016-10-18	-3.4342306776125e-14	0	0.0725581395348837
## 2016-10-21	-3.43138850666946e-14	0	0.0725581395348837
## 2016-10-25	-3.43138850666946e-14	0	0.0725581395348837
## 2016-10-28	1	1.6	0.0725581395348837
## 2016-10-31	3	2	2.4468085106383
## 2016-11-01	3	2.6	2.4468085106383
## 2016-11-04	-3.40474315407846e-14	0	0.0725581395348837
## 2016-11-07	-3.39230865620266e-14	0	0.0725581395348837
## 2016-11-17	-3.34150485059581e-14	0	0.0725581395348837
## 2016-11-18	-3.32462946062151e-14	0	0.0725581395348837
## 2016-11-22	-3.33244543071487e-14	0	0.0725581395348837
## 2016-11-28	-3.31876748305149e-14	0	0.0725581395348837
## 2016-11-30	1.046	2.6	0.0725581395348837
## 2016-12-06	1.996	2.6	2.4468085106383
## 2016-12-13	-3.31876748305149e-14	0	0.0725581395348837
## 2016-12-16	1	1.8	0.0725581395348837
## 2016-12-22	-3.31237259842965e-14	0	0.0725581395348837
## 2016-12-27	-3.31237259842965e-14	0	0.0725581395348837
## 2017-01-17	-3.31876748305149e-14	0	0.0725581395348837
## 2017-01-18	-3.31876748305149e-14	0	0.0725581395348837
## 2017-01-24	3	1.8	2.4468085106383
## 2017-01-26	8.002	9.2	7.30805687203791
## 2017-01-27	8	7.2	7.30805687203791
## 2017-01-31	8	7.6	7.30805687203791
## 2017-02-03	8	7.6	7.30805687203791
## 2017-02-06	8	7.6	7.30805687203791
## 2017-02-09	-3.33866267965277e-14	0	0.0725581395348837
## 2017-02-13	-3.33866267965277e-14	0	0.0725581395348837
## 2017-02-17	-3.33866267965277e-14	0	0.0725581395348837
## 2017-02-27	5	4.6	5.08849557522124
## 2017-03-03	13	10	14.6610878661088
## 2017-03-08	13	13	14.6610878661088
## 2017-03-09	13	13	14.6610878661088
## 2017-03-10	13	13	14.6610878661088
## 2017-03-14	13	13	14.6610878661088
## 2017-03-17	13	13	14.6610878661088
## 2017-03-21	13	13	14.6610878661088
## 2017-03-22	13	11.4	14.6610878661088
## 2017-03-29	-3.33795213691701e-14	0	0.0725581395348837
## 2017-04-04	5	5.6	5.08849557522124

## 2017-04-05	5	5.6	5.08849557522124
## 2017-04-10	5.02	6.4	5.08849557522124
## 2017-04-12	-3.38555850021294e-14	0	0.0725581395348837
## 2017-04-25	-3.37774253011958e-14	0	0.0725581395348837
## 2017-05-02	6	5.8	5.08849557522124
## 2017-05-08	-3.30384608560053e-14	0	0.0725581395348837
## 2017-05-19	4	4.6	5.08849557522124
## 2017-05-23	-3.34328120743521e-14	0	0.0725581395348837
## 2017-05-24	-3.34328120743521e-14	0	0.0725581395348837
## 2017-05-31	-3.33546523734185e-14	0	0.0725581395348837
## 2017-06-01	-3.33546523734185e-14	0	0.0725581395348837
## 2017-06-02	-3.33546523734185e-14	0	0.0725581395348837
## 2017-06-06	-3.33546523734185e-14	0	0.0725581395348837
## 2017-06-09	-3.32196492536241e-14	0	0.0725581395348837
## 2017-06-19	12	12	9.98606271777003
## 2017-06-23	12	12	9.98606271777003
## 2017-06-27	12	12	9.98606271777003
## 2017-06-30	-3.36299876835255e-14	0	0.0725581395348837
## 2017-07-06	-3.28626015289046e-14	0	0.0725581395348837
## 2017-07-11	-3.32391891788575e-14	0	0.0725581395348837
## 2017-07-18	1	3.2	0.0725581395348837
## 2017-07-21	11	11	9.98606271777003
## 2017-08-07	18	12.2	19.9025974025974
## 2017-08-08	18	18	19.9025974025974
## 2017-08-10	18	18	19.9025974025974
## 2017-08-23	18	18	19.9025974025974
## 2017-08-28	18	18	19.9025974025974
## 2017-09-08	3.022	3.6	2.4468085106383
## 2017-09-26	-3.30331317854871e-14	0	0.0725581395348837
## 2017-09-27	-3.30331317854871e-14	0	0.0725581395348837
## 2017-10-02	-3.30331317854871e-14	0	0.0725581395348837
## 2017-10-04	-3.26050297871916e-14	0	0.0725581395348837
## 2017-10-11	-2.99209546028578e-14	0	0.0725581395348837
## 2017-10-12	-3.05284686419327e-14	0	0.0725581395348837
## 2017-10-17	-3.17594839316371e-14	0	0.0725581395348837
## 2017-10-19	20	20	19.9025974025974
## 2017-10-20	20	20	19.9025974025974
## 2017-10-24	20	20	19.9025974025974
## 2017-11-03	20	20	19.9025974025974
## 2017-11-07	20	20	19.9025974025974
## 2017-11-15	19.738	8.8	19.9025974025974
## 2017-11-27	-3.14965831194058e-14	0	0.0725581395348837
## 2017-12-07	-3.09494652128706e-14	0	0.0725581395348837
## 2017-12-08	-3.07451841763395e-14	0	0.0725581395348837
## 2017-12-15	-3.07451841763395e-14	0	0.0725581395348837
## 2017-12-19	-3.05107050735387e-14	0	0.0725581395348837
## 2017-12-21	-2.85922396869864e-14	0	0.0725581395348837
## 2018-01-02	1	0.666666666666667	0.0725581395348837
## 2018-01-16	-2.48210341169397e-14	0	0.0725581395348837
## 2018-01-18	-1.93267624126747e-14	0	0.0725581395348837

## 2018-01-25	15	15	14.6610878661088
## 2018-01-26	15	15	14.6610878661088
## 2018-01-29	15	15	14.6610878661088
## 2018-01-30	15	15	14.6610878661088
## 2018-01-31	15	15	14.6610878661088
## 2018-02-05	15	15	14.6610878661088
## 2018-02-12	15	15	14.6610878661088
## 2018-02-16	-3.24433813148062e-14	0	0.0725581395348837
## 2018-02-23	-3.07913694541639e-14	0	0.0725581395348837
## 2018-03-02	-3.10773629053074e-14	0	0.0725581395348837
## 2018-03-07	1	3	0.0725581395348837
## 2018-03-08	-2.77271539061985e-14	0	0.0725581395348837
## 2018-03-09	-2.60502730498047e-14	0	0.0725581395348837
## 2018-03-12	-2.5785595880734e-14	0	0.0725581395348837
## 2018-03-13	-2.58406629427554e-14	0	0.0725581395348837
## 2018-03-16	11	10.4	9.98606271777003
## 2018-03-27	11	11	9.98606271777003
## 2018-04-04	0.005999999999997034	0	0.0725581395348837
## 2018-04-09	10	10.6	9.98606271777003
## 2018-04-10	10	10	9.98606271777003
## 2018-05-08	3	3	2.4468085106383
## 2018-05-10	3	5	2.4468085106383
## 2018-05-11	-3.27613491890588e-14	0	0.0725581395348837
## 2018-05-14	-3.27613491890588e-14	0	0.0725581395348837
## 2018-05-16	-3.2544633654652e-14	0	0.0725581395348837
## 2018-05-17	-3.26174642850674e-14	0	0.0725581395348837
## 2018-05-23	-3.2526870086258e-14	0	0.0725581395348837
## 2018-06-06	1	1.6	0.0725581395348837
## 2018-06-07	1	2	0.0725581395348837
## 2018-06-08	1	1.6	0.0725581395348837
## 2018-06-11	18	16.2	19.9025974025974
## 2018-06-12	18	18	19.9025974025974
## 2018-06-15	18	18	19.9025974025974
## 2018-06-18	18	18	19.9025974025974
## 2018-06-19	18	18	19.9025974025974
## 2018-06-22	18	18	19.9025974025974
## 2018-06-25	18	18	19.9025974025974
## 2018-06-26	18	18	19.9025974025974
## 2018-07-03	18	18	19.9025974025974
## 2018-07-06	18	15.6	19.9025974025974
## 2018-07-10	6.994	6.4	7.30805687203791
## 2018-07-12	7	6.6	7.30805687203791
## 2018-07-13	7	6.6	7.30805687203791
## 2018-07-16	7	6.6	7.30805687203791
## 2018-07-24	-3.23687743275514e-14	0	0.0725581395348837
## 2018-07-27	-3.27826654711316e-14	0	0.0725581395348837
## 2018-07-30	-3.28093108237226e-14	0	0.0725581395348837
## 2018-08-07	10	10	9.98606271777003
## 2018-08-16	10	10	9.98606271777003
## 2018-08-21	-3.266897863341e-14	0	0.0725581395348837

## 2018-08-24	-3.26494387081766e-14	0	0.0725581395348837
## 2018-08-30	-3.24344995306092e-14	0	0.0725581395348837
## 2018-09-06	6	6.4	5.08849557522124
## 2018-09-12	6	6.4	5.08849557522124
## 2018-09-14	-3.1350921858575e-14	0	0.0725581395348837
## 2018-09-20	-3.08482128730247e-14	0	0.0725581395348837
## 2018-09-21	-3.05746539197571e-14	0	0.0725581395348837
## 2018-10-02	15	15	14.6610878661088
## 2018-10-04	15	15	14.6610878661088
## 2018-10-08	15	15	14.6610878661088
## 2018-10-18	15	12.8	14.6610878661088
## 2018-10-19	-3.24593685263608e-14	0	0.0725581395348837
## 2018-10-23	3	1.4	2.4468085106383
## 2018-10-24	3	3.4	2.4468085106383
## 2018-10-26	3.034	4.8	2.4468085106383
## 2018-10-31	-3.20383719554229e-14	0	0.0725581395348837
## 2018-11-02	-3.121769509562e-14	0	0.0725581395348837
## 2018-11-07	-3.01483282783011e-14	0	0.0725581395348837
## 2018-11-12	-3.00701685773674e-14	0	0.0725581395348837
## 2018-11-14	-2.98268076903696e-14	0	0.0725581395348837
## 2018-11-26	1	1.8	0.0725581395348837
## 2018-12-07	15	15	14.6610878661088
## 2018-12-12	15	15	14.6610878661088
## 2018-12-14	15	15	14.6610878661088
## 2018-12-18	15	15	14.6610878661088
## 2018-12-24	15	15	14.6610878661088
## 2019-01-03	1	1.6	0.0725581395348837
## 2019-01-10	2.014	2.2	2.4468085106383
## 2019-01-14	-3.0924596217119e-14	0	0.0725581395348837
## 2019-01-15	1	1.4	0.0725581395348837
## 2019-01-23	1	4.2	0.0725581395348837
## 2019-01-28	-2.9446667326738e-14	0	0.0725581395348837
## 2019-01-29	-3.03970182358171e-14	0	0.0725581395348837
## 2019-01-30	-3.04041236631747e-14	0	0.0725581395348837
## 2019-02-01	-3.07025516121939e-14	0	0.0725581395348837
## 2019-02-05	-2.85496071228408e-14	0	0.0725581395348837
## 2019-02-15	9	9	9.98606271777003
## 2019-02-27	-3.08162384499155e-14	0	0.0725581395348837
## 2019-03-01	14	14	14.6610878661088
## 2019-03-08	14	14	14.6610878661088
## 2019-03-19	14	14	14.6610878661088
## 2019-03-21	5	2.8	5.08849557522124
## 2019-03-22	5	5	5.08849557522124
## 2019-03-29	-3.30011573623779e-14	0	0.0725581395348837
## 2019-04-02	-3.31379368390117e-14	0	0.0725581395348837
## 2019-04-18	6.994	6	7.30805687203791
## 2019-04-23	7	7.8	7.30805687203791
## 2019-04-26	7	6.2	7.30805687203791
## 2019-04-29	7	7.8	7.30805687203791
## 2019-04-30	7	4.5	7.30805687203791



## 2019-05-03	-3.14788195510118e-14	0	0.0725581395348837
## 2019-05-07	2	1.4	2.4468085106383
## 2019-05-09	2	2	2.4468085106383
## 2019-05-16	16	16	14.6610878661088
## 2019-05-20	16	16	14.6610878661088
## 2019-05-29	16	16	14.6610878661088
## 2019-05-31	16	16	14.6610878661088
## 2019-06-03	16	16	14.6610878661088
## 2019-06-07	-3.30153682170931e-14	0	0.0725581395348837
## 2019-06-28	5.008	6	5.08849557522124
## 2019-07-01	-3.20703463785321e-14	0	0.0725581395348837
## 2019-07-10	-3.19371196155771e-14	0	0.0725581395348837
## 2019-07-12	-3.16493498075943e-14	0	0.0725581395348837
## 2019-07-16	-3.13491455017356e-14	0	0.0725581395348837
## 2019-07-19	2	3.8	2.4468085106383
## 2019-07-30	25	25	25
## 2019-07-31	25	25	25
## 2019-08-01	25	25	25
## 2019-08-05	25	25	25
## 2019-08-07	25	25	25
## 2019-08-09	25	25	25
## 2019-08-14	25	25	25
## 2019-08-16	25	25	25
## 2019-08-19	25	25	25
## 2019-08-20	25	25	25
## 2019-08-22	25	25	25
## 2019-08-27	25	25	25
## 2019-08-30	2	2	2.4468085106383
## 2019-09-04	-3.05284686419327e-14	0	0.0725581395348837
## 2019-09-09	-3.16138226708063e-14	0	0.0725581395348837
## 2019-09-10	-3.17808002137099e-14	0	0.0725581395348837
## 2019-09-13	-3.16227044550033e-14	0	0.0725581395348837
## 2019-09-16	-3.06243919112603e-14	0	0.0725581395348837
## 2019-09-17	-3.15427683972303e-14	0	0.0725581395348837
## 2019-09-18	14	12.4	14.6610878661088
## 2019-09-23	14	14	14.6610878661088
## 2019-09-24	14	14	14.6610878661088
## 2019-09-25	14	14	14.6610878661088
## 2019-10-02	14	14	14.6610878661088
## 2019-10-08	14	13.4	14.6610878661088
## 2019-10-15	-3.06350500522967e-14	0	0.0725581395348837
## 2019-10-18	-3.02353697634317e-14	0	0.0725581395348837
## 2019-10-22	-3.01820790582497e-14	0	0.0725581395348837
## 2019-10-24	-3.05959702018299e-14	0	0.0725581395348837
## 2019-10-29	-3.02424751907893e-14	0	0.0725581395348837
## 2019-11-01	-2.91233703819671e-14	0	0.0725581395348837
## 2019-11-14	8	8	7.30805687203791
## 2019-11-19	8	8	7.30805687203791
## 2019-11-22	-2.9482194463526e-14	0	0.0725581395348837
## 2019-11-26	-2.95603541644596e-14	0	0.0725581395348837

## 2019-11-29	9	9	9.98606271777003
## 2019-12-02	9	9	9.98606271777003
## 2019-12-06	9	9	9.98606271777003
## 2019-12-11	8.98	8	9.98606271777003
## 2019-12-13	-2.88764567812905e-14	0	0.0725581395348837
## 2019-12-16	-2.90789614609821e-14	0	0.0725581395348837
## 2019-12-18	-2.89297474864725e-14	0	0.0725581395348837
## 2019-12-20	-2.95905522307294e-14	0	0.0725581395348837
## 2019-12-27	-2.75584000064555e-14	0	0.0725581395348837
## 2020-01-02	8	8	7.30805687203791
## 2020-01-03	8	8	7.30805687203791
## 2020-01-06	8	8	7.30805687203791
## 2020-01-09	8	8	7.30805687203791
## 2020-01-14	8	4.6	7.30805687203791
## 2020-01-17	2	1.8	2.4468085106383
## 2020-01-31	2	2	2.4468085106383
## 2020-02-03	2	4.2	2.4468085106383
## 2020-02-11	-2.23714380354068e-14	0	0.0725581395348837
## 2020-02-12	-2.03019823175055e-14	0	0.0725581395348837
## 2020-02-19	14	14	14.6610878661088
## 2020-02-20	14	14	14.6610878661088
## 2020-02-21	14	14	14.6610878661088
## 2020-02-28	14	14	14.6610878661088
## 2020-03-06	14	14	14.6610878661088
## results	0.31	0.77	0.03
##	GLM IncreasingDaysThisCycle		
## 2007-01-16	-2.69576939109711e-13	0	
## 2007-01-17	0.999999999999753	1	
## 2007-01-22	7.99999999999977	8	
## 2007-01-23	7.99999999999978	8	
## 2007-01-24	7.99999999999978	8	
## 2007-01-26	7.99999999999978	8	
## 2007-01-29	7.99999999999978	8	
## 2007-01-31	7.99999999999977	8	
## 2007-02-08	-2.52035415320633e-13	0	
## 2007-02-09	-2.48926790851683e-13	0	
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## 2007-03-02	24.9999999999998	25	
## 2007-03-07	24.9999999999998	25	
## 2007-03-12	24.9999999999998	25	
## 2007-03-14	24.9999999999998	25	
## 2007-03-19	24.9999999999998	25	
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## 2007-05-11	20.999999999998	21
## 2007-05-18	20.999999999998	21
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## 2007-06-12	11.999999999998	12
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## 2007-06-15	11.999999999998	12
## 2007-06-18	11.999999999998	12
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## 2007-11-21	8.9999999999983	9
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## 2008-05-20	9.99999999999985	10
## 2008-05-29	9.99999999999985	10
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## 2008-06-13	19.9999999999999	20
## 2008-06-16	19.9999999999999	20
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## 2013-02-14	9.99999999999986	10
## 2013-02-15	9.99999999999985	10
## 2013-02-26	9.99999999999985	10
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## 2018-07-06	17.9999999999998	18
## 2018-07-10	6.99999999999983	7
## 2018-07-12	6.99999999999985	7
## 2018-07-13	6.99999999999985	7
## 2018-07-16	6.99999999999985	7
## 2018-07-24	-1.69878911498372e-13	0
## 2018-07-27	-1.73653669782097e-13	0
## 2018-07-30	-1.71655268337772e-13	0
## 2018-08-07	9.99999999999985	10
## 2018-08-16	9.99999999999985	10
## 2018-08-21	-1.75207982016573e-13	0
## 2018-08-24	-1.70323000708222e-13	0
## 2018-08-30	-1.72099357547622e-13	0
## 2018-09-06	5.99999999999985	6
## 2018-09-12	5.99999999999984	6
## 2018-09-14	-1.74763892806723e-13	0
## 2018-09-20	-1.78094561880598e-13	0

## 2018-09-21	-1.81425230954473e-13	0
## 2018-10-02	14.9999999999999	15
## 2018-10-04	14.9999999999999	15
## 2018-10-08	14.9999999999999	15
## 2018-10-18	14.9999999999999	15
## 2018-10-19	-1.72099357547622e-13	0
## 2018-10-23	2.99999999999985	3
## 2018-10-24	2.99999999999986	3
## 2018-10-26	2.99999999999986	3
## 2018-10-31	-1.5877668125212e-13	0
## 2018-11-02	-1.60553038091521e-13	0
## 2018-11-07	-1.60553038091521e-13	0
## 2018-11-12	-1.58998725857045e-13	0
## 2018-11-14	-1.60997127301371e-13	0
## 2018-11-26	0.999999999999833	1
## 2018-12-07	14.9999999999999	15
## 2018-12-12	14.9999999999999	15
## 2018-12-14	14.9999999999999	15
## 2018-12-18	14.9999999999999	15
## 2018-12-24	14.9999999999999	15
## 2019-01-03	0.999999999999845	1
## 2019-01-10	1.99999999999985	2
## 2019-01-14	-1.72543446757472e-13	0
## 2019-01-15	0.999999999999842	1
## 2019-01-23	0.999999999999854	1
## 2019-01-28	-1.67436420844196e-13	0
## 2019-01-29	-1.66326197819571e-13	0
## 2019-01-30	-1.66104153214646e-13	0
## 2019-02-01	-1.64549840980171e-13	0
## 2019-02-05	-1.65660064004796e-13	0
## 2019-02-15	8.99999999999986	9
## 2019-02-27	-1.78316606485523e-13	0
## 2019-03-01	13.9999999999999	14
## 2019-03-08	13.9999999999999	14
## 2019-03-19	13.9999999999999	14
## 2019-03-21	4.99999999999984	5
## 2019-03-22	4.99999999999986	5
## 2019-03-29	-1.62329394930921e-13	0
## 2019-04-02	-1.64327796375246e-13	0
## 2019-04-18	6.99999999999984	7
## 2019-04-23	6.99999999999985	7
## 2019-04-26	6.99999999999985	7
## 2019-04-29	6.99999999999985	7
## 2019-04-30	6.99999999999983	7
## 2019-05-03	-1.81647275559398e-13	0
## 2019-05-07	1.99999999999984	2
## 2019-05-09	1.99999999999983	2
## 2019-05-16	15.9999999999999	16
## 2019-05-20	15.9999999999999	16
## 2019-05-29	15.9999999999999	16

## 2019-05-31	15.999999999999999	16
## 2019-06-03	15.999999999999999	16
## 2019-06-07	-1.60330993486595e-13	0
## 2019-06-28	4.999999999999986	5
## 2019-07-01	-1.60553038091521e-13	0
## 2019-07-10	-1.58110547437345e-13	0
## 2019-07-12	-1.58998725857045e-13	0
## 2019-07-16	-1.5922077046197e-13	0
## 2019-07-19	1.999999999999986	2
## 2019-07-30	24.999999999999999	25
## 2019-07-31	24.999999999999999	25
## 2019-08-01	24.999999999999999	25
## 2019-08-05	24.999999999999999	25
## 2019-08-07	24.999999999999999	25
## 2019-08-09	24.999999999999999	25
## 2019-08-14	24.999999999999999	25
## 2019-08-16	24.999999999999999	25
## 2019-08-19	24.999999999999999	25
## 2019-08-20	24.999999999999999	25
## 2019-08-22	24.999999999999999	25
## 2019-08-27	24.999999999999999	25
## 2019-08-30	1.999999999999985	2
## 2019-09-04	-1.58554636647195e-13	0
## 2019-09-09	-1.60330993486595e-13	0
## 2019-09-10	-1.61441216511221e-13	0
## 2019-09-13	-1.62107350325996e-13	0
## 2019-09-16	-1.56334190597945e-13	0
## 2019-09-17	-1.5788850283242e-13	0
## 2019-09-18	13.999999999999999	14
## 2019-09-23	13.999999999999999	14
## 2019-09-24	13.999999999999999	14
## 2019-09-25	13.999999999999999	14
## 2019-10-02	13.999999999999999	14
## 2019-10-08	13.999999999999999	14
## 2019-10-15	-1.45009915746768e-13	0
## 2019-10-18	-1.43455603512293e-13	0
## 2019-10-22	-1.42567425092593e-13	0
## 2019-10-24	-1.44343781931993e-13	0
## 2019-10-29	-1.46564227981244e-13	0
## 2019-11-01	-1.44343781931993e-13	0
## 2019-11-14	7.999999999999986	8
## 2019-11-19	7.999999999999986	8
## 2019-11-22	-1.70767089918072e-13	0
## 2019-11-26	-1.70767089918072e-13	0
## 2019-11-29	8.999999999999986	9
## 2019-12-02	8.999999999999986	9
## 2019-12-06	8.999999999999986	9
## 2019-12-11	8.999999999999987	9
## 2019-12-13	-1.53669655338845e-13	0
## 2019-12-16	-1.5433578915362e-13	0

## 2019-12-18	-1.53669655338845e-13	0
## 2019-12-20	-1.55001922968395e-13	0
## 2019-12-27	-1.51893298499444e-13	0
## 2020-01-02	7.99999999999986	8
## 2020-01-03	7.99999999999986	8
## 2020-01-06	7.99999999999986	8
## 2020-01-09	7.99999999999986	8
## 2020-01-14	7.99999999999985	8
## 2020-01-17	1.99999999999984	2
## 2020-01-31	1.99999999999986	2
## 2020-02-03	1.99999999999986	2
## 2020-02-11	-1.60553038091521e-13	0
## 2020-02-12	-1.61441216511221e-13	0
## 2020-02-19	13.9999999999999	14
## 2020-02-20	13.9999999999999	14
## 2020-02-21	13.9999999999999	14
## 2020-02-28	13.9999999999999	14
## 2020-03-06	13.9999999999999	14
## results	0	100

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

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

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

predDF_round <- data.frame(predRF_round, IncreasingDaysThisCycle=testingSet$increDaysThisCycle)
predDF_round
```

##	predRF_round	IncreasingDaysThisCycle
## 2007-01-16	0	0
## 2007-01-17	1	1
## 2007-01-22	8	8
## 2007-01-23	8	8
## 2007-01-24	8	8
## 2007-01-26	8	8
## 2007-01-29	8	8
## 2007-01-31	8	8
## 2007-02-08	0	0
## 2007-02-09	0	0
## 2007-02-16	25	25
## 2007-02-27	25	25
## 2007-03-02	25	25
## 2007-03-07	25	25

## 2007-03-12	25	25
## 2007-03-14	25	25
## 2007-03-19	25	25
## 2007-03-21	25	25
## 2007-03-22	0	0
## 2007-03-29	4	4
## 2007-04-02	4	4
## 2007-04-04	1	1
## 2007-04-05	0	0
## 2007-04-09	0	0
## 2007-04-13	7	7
## 2007-04-16	7	7
## 2007-04-26	21	21
## 2007-04-27	21	21
## 2007-05-03	21	21
## 2007-05-11	21	21
## 2007-05-18	21	21
## 2007-05-29	0	0
## 2007-06-04	12	12
## 2007-06-05	12	12
## 2007-06-12	12	12
## 2007-06-13	12	12
## 2007-06-15	12	12
## 2007-06-18	12	12
## 2007-06-20	0	0
## 2007-06-26	0	0
## 2007-06-29	0	0
## 2007-07-03	0	0
## 2007-07-11	0	0
## 2007-07-13	0	0
## 2007-07-17	1	1
## 2007-07-18	1	1
## 2007-07-20	2	2
## 2007-07-23	2	2
## 2007-08-03	20	20
## 2007-08-08	20	20
## 2007-08-14	20	20
## 2007-08-16	20	20
## 2007-08-17	20	20
## 2007-08-20	20	20
## 2007-08-27	0	0
## 2007-09-05	0	0
## 2007-09-13	5	5
## 2007-09-20	9	9
## 2007-09-21	9	9
## 2007-09-24	9	9
## 2007-10-01	9	9
## 2007-10-02	9	9
## 2007-10-04	0	0
## 2007-10-10	0	0

## 2007-10-22	7	7
## 2007-10-24	3	3
## 2007-10-30	0	0
## 2007-11-01	10	10
## 2007-11-06	10	10
## 2007-11-13	10	10
## 2007-11-19	9	9
## 2007-11-21	9	9
## 2007-11-26	9	9
## 2007-11-28	9	9
## 2007-11-30	14	14
## 2007-12-03	14	14
## 2007-12-04	14	14
## 2007-12-06	14	14
## 2007-12-10	14	14
## 2007-12-14	14	14
## 2007-12-17	14	14
## 2008-01-03	11	11
## 2008-01-07	11	11
## 2008-01-16	0	0
## 2008-01-23	0	0
## 2008-01-24	1	1
## 2008-01-28	0	0
## 2008-01-31	0	0
## 2008-02-07	0	0
## 2008-02-11	1	1
## 2008-02-15	25	25
## 2008-02-28	25	25
## 2008-03-17	25	25
## 2008-03-19	25	25
## 2008-03-20	24	25
## 2008-03-31	0	0
## 2008-04-03	0	0
## 2008-04-07	0	0
## 2008-04-08	13	13
## 2008-04-10	13	13
## 2008-04-22	13	13
## 2008-04-24	13	13
## 2008-04-28	0	0
## 2008-05-06	7	7
## 2008-05-14	7	7
## 2008-05-19	10	10
## 2008-05-20	10	10
## 2008-05-29	10	10
## 2008-06-10	20	20
## 2008-06-13	20	20
## 2008-06-16	20	20
## 2008-06-20	20	20
## 2008-06-23	20	20
## 2008-06-25	20	20



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

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

## 2009-10-14	0	0
## 2009-10-15	0	0
## 2009-10-26	14	14
## 2009-11-02	14	14
## 2009-11-03	14	14
## 2009-11-04	14	14
## 2009-11-05	14	14
## 2009-11-10	0	0
## 2009-11-11	0	0
## 2009-11-16	0	0
## 2009-11-25	0	0
## 2009-11-30	0	0
## 2009-12-01	0	0
## 2009-12-03	0	0
## 2009-12-08	0	0
## 2009-12-10	0	0
## 2009-12-11	0	0
## 2009-12-14	0	0
## 2009-12-22	0	0
## 2009-12-28	0	0
## 2010-01-04	1	1
## 2010-01-06	1	1
## 2010-01-13	0	0
## 2010-01-14	0	0
## 2010-01-21	0	0
## 2010-01-22	5	5
## 2010-01-28	5	5
## 2010-02-02	0	0
## 2010-02-03	0	0
## 2010-02-11	0	0
## 2010-02-12	0	0
## 2010-02-16	0	0
## 2010-02-18	0	0
## 2010-02-19	0	0
## 2010-02-25	0	0
## 2010-03-02	0	0
## 2010-03-04	0	0
## 2010-03-11	0	0
## 2010-03-16	0	0
## 2010-03-30	0	0
## 2010-04-07	3	3
## 2010-04-08	0	0
## 2010-04-23	7	7
## 2010-04-28	0	0
## 2010-05-03	0	0
## 2010-05-04	0	0
## 2010-05-05	0	0
## 2010-05-06	4	4
## 2010-05-12	4	4
## 2010-05-17	0	0

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

## 2011-01-28	1	1
## 2011-02-03	7	7
## 2011-02-04	7	7
## 2011-02-10	7	7
## 2011-02-11	0	0
## 2011-02-22	11	11
## 2011-02-25	11	11
## 2011-02-28	11	11
## 2011-03-09	0	0
## 2011-03-16	1	1
## 2011-03-23	3	3
## 2011-03-24	3	3
## 2011-03-31	3	3
## 2011-04-04	10	10
## 2011-04-05	10	10
## 2011-04-11	10	10
## 2011-04-13	10	10
## 2011-04-26	0	0
## 2011-04-27	0	0
## 2011-04-28	0	0
## 2011-04-29	0	0
## 2011-05-05	0	0
## 2011-05-20	0	0
## 2011-05-27	16	16
## 2011-06-03	16	16
## 2011-06-07	16	16
## 2011-06-08	16	16
## 2011-06-09	16	16
## 2011-06-14	16	16
## 2011-06-15	16	16
## 2011-06-20	0	0
## 2011-06-22	0	0
## 2011-06-28	0	0
## 2011-06-29	0	0
## 2011-07-01	29	29
## 2011-07-11	29	29
## 2011-07-13	29	29
## 2011-07-14	29	29
## 2011-07-22	29	29
## 2011-08-05	29	29
## 2011-08-11	29	29
## 2011-08-16	0	0
## 2011-08-18	7	7
## 2011-08-25	7	7
## 2011-08-26	7	7
## 2011-08-29	0	0
## 2011-09-02	7	7
## 2011-09-06	7	7
## 2011-09-21	0	0
## 2011-09-30	7	7

## 2011-10-05	7	7
## 2011-10-13	0	0
## 2011-10-17	0	0
## 2011-10-24	5	5
## 2011-10-28	3	3
## 2011-11-03	16	16
## 2011-11-16	16	16
## 2011-11-21	16	16
## 2011-11-22	16	16
## 2011-11-25	16	16
## 2011-11-30	0	0
## 2011-12-02	0	0
## 2011-12-05	0	0
## 2011-12-12	0	0
## 2011-12-14	0	0
## 2011-12-16	0	0
## 2011-12-19	0	0
## 2011-12-20	0	0
## 2011-12-22	0	0
## 2011-12-23	7	7
## 2011-12-27	7	7
## 2011-12-28	7	7
## 2012-01-10	0	0
## 2012-01-11	0	0
## 2012-01-18	0	0
## 2012-01-20	0	0
## 2012-01-31	0	0
## 2012-02-02	0	0
## 2012-02-22	20	20
## 2012-03-02	20	20
## 2012-03-07	20	20
## 2012-03-13	20	20
## 2012-03-15	0	0
## 2012-03-28	0	0
## 2012-04-11	0	0
## 2012-04-13	0	0
## 2012-04-20	0	0
## 2012-04-25	0	0
## 2012-05-03	0	0
## 2012-05-04	0	0
## 2012-05-10	0	0
## 2012-05-14	0	0
## 2012-05-17	5	5
## 2012-05-22	5	5
## 2012-06-04	6	6
## 2012-06-06	6	6
## 2012-06-12	6	6
## 2012-06-15	0	0
## 2012-06-26	0	0
## 2012-07-12	0	0

## 2012-07-13	0	0
## 2012-07-16	0	0
## 2012-07-18	23	23
## 2012-07-23	23	23
## 2012-07-25	23	23
## 2012-07-26	23	23
## 2012-07-27	23	23
## 2012-07-31	23	23
## 2012-08-06	23	23
## 2012-08-07	23	23
## 2012-08-08	23	23
## 2012-08-22	0	0
## 2012-08-29	4	4
## 2012-09-07	0	0
## 2012-09-18	9	9
## 2012-09-20	9	9
## 2012-09-21	9	9
## 2012-09-25	9	9
## 2012-09-26	9	9
## 2012-09-27	1	1
## 2012-10-04	0	0
## 2012-10-11	3	3
## 2012-10-23	0	0
## 2012-10-24	0	0
## 2012-11-02	0	0
## 2012-11-12	1	1
## 2012-11-26	0	0
## 2012-11-28	0	0
## 2012-11-30	0	0
## 2012-12-03	6	6
## 2012-12-10	6	6
## 2012-12-11	6	6
## 2012-12-12	0	0
## 2012-12-21	0	0
## 2012-12-28	1	1
## 2012-12-31	0	0
## 2013-01-02	0	0
## 2013-01-14	5	5
## 2013-01-18	5	5
## 2013-01-25	0	0
## 2013-01-31	7	7
## 2013-02-05	7	7
## 2013-02-07	0	0
## 2013-02-12	0	0
## 2013-02-13	10	10
## 2013-02-14	10	10
## 2013-02-15	10	10
## 2013-02-26	10	10
## 2013-02-27	10	10
## 2013-03-01	0	0

## 2013-03-04	0	0
## 2013-03-05	0	0
## 2013-03-06	0	0
## 2013-03-11	0	0
## 2013-03-12	0	0
## 2013-03-21	0	0
## 2013-04-03	8	8
## 2013-04-05	8	8
## 2013-04-11	0	0
## 2013-04-12	1	1
## 2013-04-17	0	0
## 2013-04-19	1	1
## 2013-04-26	0	0
## 2013-05-06	0	0
## 2013-05-08	0	0
## 2013-05-16	0	0
## 2013-05-17	0	0
## 2013-05-20	0	0
## 2013-05-23	15	15
## 2013-06-06	15	15
## 2013-06-12	15	15
## 2013-06-13	15	15
## 2013-06-14	15	15
## 2013-06-18	8	8
## 2013-06-20	8	8
## 2013-06-21	8	8
## 2013-06-24	8	8
## 2013-06-25	8	8
## 2013-07-01	0	0
## 2013-07-10	0	0
## 2013-07-16	0	0
## 2013-07-18	0	0
## 2013-07-19	0	0
## 2013-07-23	0	0
## 2013-07-30	0	0
## 2013-08-05	14	14
## 2013-08-08	14	14
## 2013-08-12	14	14
## 2013-08-28	2	2
## 2013-09-06	0	0
## 2013-09-10	0	0
## 2013-09-12	0	0
## 2013-09-17	0	0
## 2013-09-18	0	0
## 2013-09-19	0	0
## 2013-09-20	0	0
## 2013-09-26	0	0
## 2013-10-02	0	0
## 2013-10-03	0	0
## 2013-10-04	0	0



## 2013-10-10	0	0
## 2013-10-14	1	1
## 2013-10-25	0	0
## 2013-11-01	0	0
## 2013-11-05	0	0
## 2013-11-06	1	1
## 2013-11-07	1	1
## 2013-11-13	0	0
## 2013-11-15	0	0
## 2013-11-20	0	0
## 2013-11-26	8	8
## 2013-11-27	8	8
## 2013-12-03	8	8
## 2013-12-04	8	8
## 2013-12-06	8	8
## 2013-12-10	0	0
## 2013-12-16	0	0
## 2013-12-18	0	0
## 2013-12-19	0	0
## 2013-12-26	5	5
## 2013-12-27	5	5
## 2013-12-31	5	5
## 2014-01-02	5	5
## 2014-01-07	0	0
## 2014-01-10	0	0
## 2014-01-13	0	0
## 2014-01-21	0	0
## 2014-01-24	0	0
## 2014-02-04	0	0
## 2014-02-06	0	0
## 2014-02-11	0	0
## 2014-02-18	2	2
## 2014-02-25	0	0
## 2014-02-28	0	0
## 2014-03-03	0	0
## 2014-03-04	0	0
## 2014-03-07	0	0
## 2014-03-11	0	0
## 2014-03-14	7	7
## 2014-04-10	7	7
## 2014-04-17	7	7
## 2014-04-24	0	0
## 2014-05-01	2	2
## 2014-05-13	0	0
## 2014-05-16	0	0
## 2014-05-21	3	3
## 2014-05-27	0	0
## 2014-06-02	0	0
## 2014-06-03	0	0
## 2014-06-10	0	0

## 2014-06-16	6	6
## 2014-06-23	0	0
## 2014-06-24	0	0
## 2014-06-25	0	0
## 2014-06-26	0	0
## 2014-07-10	9	9
## 2014-07-15	0	0
## 2014-07-21	2	2
## 2014-07-29	15	15
## 2014-07-31	15	15
## 2014-08-08	15	15
## 2014-08-12	15	15
## 2014-08-15	0	0
## 2014-08-20	0	0
## 2014-08-26	5	5
## 2014-09-03	9	9
## 2014-09-04	9	9
## 2014-09-05	9	9
## 2014-09-15	9	9
## 2014-09-17	1	1
## 2014-09-29	10	10
## 2014-10-08	9	9
## 2014-10-10	9	9
## 2014-10-15	9	9
## 2014-10-21	0	0
## 2014-10-22	0	0
## 2014-10-24	0	0
## 2014-10-30	0	0
## 2014-10-31	0	0
## 2014-11-12	0	0
## 2014-11-14	0	0
## 2014-11-28	0	0
## 2014-12-04	0	0
## 2014-12-08	1	1
## 2014-12-12	0	0
## 2014-12-16	2	2
## 2014-12-22	0	0
## 2014-12-24	0	0
## 2015-01-02	0	0
## 2015-01-08	7	7
## 2015-01-27	0	0
## 2015-02-02	10	10
## 2015-02-09	10	10
## 2015-02-12	2	2
## 2015-02-24	0	0
## 2015-02-25	0	0
## 2015-03-03	10	10
## 2015-03-09	10	10
## 2015-03-10	10	10
## 2015-03-12	10	10

## 2015-03-19	0	0
## 2015-03-24	0	0
## 2015-03-26	14	14
## 2015-04-20	0	0
## 2015-04-22	0	0
## 2015-04-23	0	0
## 2015-04-24	0	0
## 2015-05-08	0	0
## 2015-05-13	2	2
## 2015-05-18	9	9
## 2015-05-22	9	9
## 2015-05-26	9	9
## 2015-05-29	9	9
## 2015-06-05	8	8
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## 2015-06-11	8	8
## 2015-06-29	8	8
## 2015-06-30	8	8
## 2015-07-07	8	8
## 2015-07-13	0	0
## 2015-07-15	0	0
## 2015-07-24	3	3
## 2015-08-04	0	0
## 2015-08-05	0	0
## 2015-08-06	0	0
## 2015-08-12	2	2
## 2015-08-21	9	9
## 2015-08-24	9	9
## 2015-08-25	9	9
## 2015-08-27	9	9
## 2015-09-01	9	9
## 2015-09-15	0	0
## 2015-09-16	0	0
## 2015-09-18	0	0
## 2015-09-23	11	11
## 2015-10-02	11	11
## 2015-10-19	0	0
## 2015-10-22	0	0
## 2015-10-23	0	0
## 2015-11-04	18	18
## 2015-11-05	18	18
## 2015-11-09	18	18
## 2015-11-11	18	18
## 2015-11-13	18	18
## 2015-11-17	18	18
## 2015-11-18	18	18
## 2015-11-19	18	18
## 2015-11-30	18	18
## 2015-12-01	0	0
## 2015-12-02	0	0

## 2015-12-07	0	0
## 2015-12-08	0	0
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## 2015-12-14	7	7
## 2015-12-29	0	0
## 2016-01-06	9	9
## 2016-01-07	9	9
## 2016-01-14	7	7
## 2016-01-19	7	7
## 2016-01-21	7	7
## 2016-01-26	7	7
## 2016-02-08	11	11
## 2016-02-09	11	11
## 2016-02-11	11	11
## 2016-02-18	0	0
## 2016-02-22	0	0
## 2016-02-23	0	0
## 2016-02-29	0	0
## 2016-03-01	0	0
## 2016-03-08	1	1
## 2016-03-11	0	0
## 2016-03-16	0	0
## 2016-03-22	14	14
## 2016-03-24	14	14
## 2016-03-31	14	14
## 2016-04-13	0	0
## 2016-04-20	0	0
## 2016-04-26	21	21
## 2016-04-27	21	21
## 2016-05-11	21	21
## 2016-05-16	21	21
## 2016-05-17	21	21
## 2016-05-18	21	21
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## 2016-05-26	7	7
## 2016-05-27	7	7
## 2016-06-01	7	7
## 2016-06-03	7	7
## 2016-06-08	0	0
## 2016-06-16	15	15
## 2016-06-23	15	15
## 2016-06-28	15	15
## 2016-07-07	0	0
## 2016-07-14	0	0
## 2016-07-15	0	0
## 2016-07-19	0	0
## 2016-07-20	0	0
## 2016-07-21	0	0
## 2016-07-29	1	1
## 2016-08-03	7	7

## 2016-08-08	7	7
## 2016-08-11	0	0
## 2016-08-17	0	0
## 2016-08-30	0	0
## 2016-09-07	0	0
## 2016-09-13	9	9
## 2016-09-21	9	9
## 2016-09-26	9	9
## 2016-09-27	0	0
## 2016-09-30	0	0
## 2016-10-10	0	0
## 2016-10-11	1	1
## 2016-10-12	1	1
## 2016-10-13	0	0
## 2016-10-18	0	0
## 2016-10-21	0	0
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## 2016-10-28	1	1
## 2016-10-31	3	3
## 2016-11-01	3	3
## 2016-11-04	0	0
## 2016-11-07	0	0
## 2016-11-17	0	0
## 2016-11-18	0	0
## 2016-11-22	0	0
## 2016-11-28	0	0
## 2016-11-30	1	1
## 2016-12-06	2	2
## 2016-12-13	0	0
## 2016-12-16	1	1
## 2016-12-22	0	0
## 2016-12-27	0	0
## 2017-01-17	0	0
## 2017-01-18	0	0
## 2017-01-24	3	3
## 2017-01-26	8	8
## 2017-01-27	8	8
## 2017-01-31	8	8
## 2017-02-03	8	8
## 2017-02-06	8	8
## 2017-02-09	0	0
## 2017-02-13	0	0
## 2017-02-17	0	0
## 2017-02-27	5	5
## 2017-03-03	13	13
## 2017-03-08	13	13
## 2017-03-09	13	13
## 2017-03-10	13	13
## 2017-03-14	13	13
## 2017-03-17	13	13

## 2017-03-21	13	13
## 2017-03-22	13	13
## 2017-03-29	0	0
## 2017-04-04	5	5
## 2017-04-05	5	5
## 2017-04-10	5	5
## 2017-04-12	0	0
## 2017-04-25	0	0
## 2017-05-02	6	6
## 2017-05-08	0	0
## 2017-05-19	4	4
## 2017-05-23	0	0
## 2017-05-24	0	0
## 2017-05-31	0	0
## 2017-06-01	0	0
## 2017-06-02	0	0
## 2017-06-06	0	0
## 2017-06-09	0	0
## 2017-06-19	12	12
## 2017-06-23	12	12
## 2017-06-27	12	12
## 2017-06-30	0	0
## 2017-07-06	0	0
## 2017-07-11	0	0
## 2017-07-18	1	1
## 2017-07-21	11	11
## 2017-08-07	18	18
## 2017-08-08	18	18
## 2017-08-10	18	18
## 2017-08-23	18	18
## 2017-08-28	18	18
## 2017-09-08	3	3
## 2017-09-26	0	0
## 2017-09-27	0	0
## 2017-10-02	0	0
## 2017-10-04	0	0
## 2017-10-11	0	0
## 2017-10-12	0	0
## 2017-10-17	0	0
## 2017-10-19	20	20
## 2017-10-20	20	20
## 2017-10-24	20	20
## 2017-11-03	20	20
## 2017-11-07	20	20
## 2017-11-15	20	20
## 2017-11-27	0	0
## 2017-12-07	0	0
## 2017-12-08	0	0
## 2017-12-15	0	0
## 2017-12-19	0	0

## 2017-12-21	0	0
## 2018-01-02	1	1
## 2018-01-16	0	0
## 2018-01-18	0	0
## 2018-01-25	15	15
## 2018-01-26	15	15
## 2018-01-29	15	15
## 2018-01-30	15	15
## 2018-01-31	15	15
## 2018-02-05	15	15
## 2018-02-12	15	15
## 2018-02-16	0	0
## 2018-02-23	0	0
## 2018-03-02	0	0
## 2018-03-07	1	1
## 2018-03-08	0	0
## 2018-03-09	0	0
## 2018-03-12	0	0
## 2018-03-13	0	0
## 2018-03-16	11	11
## 2018-03-27	11	11
## 2018-04-04	0	0
## 2018-04-09	10	10
## 2018-04-10	10	10
## 2018-05-08	3	3
## 2018-05-10	3	3
## 2018-05-11	0	0
## 2018-05-14	0	0
## 2018-05-16	0	0
## 2018-05-17	0	0
## 2018-05-23	0	0
## 2018-06-06	1	1
## 2018-06-07	1	1
## 2018-06-08	1	1
## 2018-06-11	18	18
## 2018-06-12	18	18
## 2018-06-15	18	18
## 2018-06-18	18	18
## 2018-06-19	18	18
## 2018-06-22	18	18
## 2018-06-25	18	18
## 2018-06-26	18	18
## 2018-07-03	18	18
## 2018-07-06	18	18
## 2018-07-10	7	7
## 2018-07-12	7	7
## 2018-07-13	7	7
## 2018-07-16	7	7
## 2018-07-24	0	0
## 2018-07-27	0	0

## 2018-07-30	0	0
## 2018-08-07	10	10
## 2018-08-16	10	10
## 2018-08-21	0	0
## 2018-08-24	0	0
## 2018-08-30	0	0
## 2018-09-06	6	6
## 2018-09-12	6	6
## 2018-09-14	0	0
## 2018-09-20	0	0
## 2018-09-21	0	0
## 2018-10-02	15	15
## 2018-10-04	15	15
## 2018-10-08	15	15
## 2018-10-18	15	15
## 2018-10-19	0	0
## 2018-10-23	3	3
## 2018-10-24	3	3
## 2018-10-26	3	3
## 2018-10-31	0	0
## 2018-11-02	0	0
## 2018-11-07	0	0
## 2018-11-12	0	0
## 2018-11-14	0	0
## 2018-11-26	1	1
## 2018-12-07	15	15
## 2018-12-12	15	15
## 2018-12-14	15	15
## 2018-12-18	15	15
## 2018-12-24	15	15
## 2019-01-03	1	1
## 2019-01-10	2	2
## 2019-01-14	0	0
## 2019-01-15	1	1
## 2019-01-23	1	1
## 2019-01-28	0	0
## 2019-01-29	0	0
## 2019-01-30	0	0
## 2019-02-01	0	0
## 2019-02-05	0	0
## 2019-02-15	9	9
## 2019-02-27	0	0
## 2019-03-01	14	14
## 2019-03-08	14	14
## 2019-03-19	14	14
## 2019-03-21	5	5
## 2019-03-22	5	5
## 2019-03-29	0	0
## 2019-04-02	0	0
## 2019-04-18	7	7



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

```

## 2019-11-14      8      8
## 2019-11-19      8      8
## 2019-11-22      0      0
## 2019-11-26      0      0
## 2019-11-29      9      9
## 2019-12-02      9      9
## 2019-12-06      9      9
## 2019-12-11      9      9
## 2019-12-13      0      0
## 2019-12-16      0      0
## 2019-12-18      0      0
## 2019-12-20      0      0
## 2019-12-27      0      0
## 2020-01-02      8      8
## 2020-01-03      8      8
## 2020-01-06      8      8
## 2020-01-09      8      8
## 2020-01-14      8      8
## 2020-01-17      2      2
## 2020-01-31      2      2
## 2020-02-03      2      2
## 2020-02-11      0      0
## 2020-02-12      0      0
## 2020-02-19     14     14
## 2020-02-20     14     14
## 2020-02-21     14     14
## 2020-02-28     14     14
## 2020-03-06     14     14

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

## [1] 0.9989919

results_round <- c(round(accuracy_rfMod_round,2), round(100,2))
results_round <- as.factor(results_round)
results_round <- t(data.frame(results_round))

colnames(results_round) <- colnames(predDF_round)
Results_round <- rbind(predDF_round, results_round)
Results_round

##      predRF_round IncreasingDaysThisCycle
## 2007-01-16      0      0
## 2007-01-17      1      1
## 2007-01-22      8      8
## 2007-01-23      8      8
## 2007-01-24      8      8
## 2007-01-26      8      8

```

## 2007-01-29	8	8
## 2007-01-31	8	8
## 2007-02-08	0	0
## 2007-02-09	0	0
## 2007-02-16	25	25
## 2007-02-27	25	25
## 2007-03-02	25	25
## 2007-03-07	25	25
## 2007-03-12	25	25
## 2007-03-14	25	25
## 2007-03-19	25	25
## 2007-03-21	25	25
## 2007-03-22	0	0
## 2007-03-29	4	4
## 2007-04-02	4	4
## 2007-04-04	1	1
## 2007-04-05	0	0
## 2007-04-09	0	0
## 2007-04-13	7	7
## 2007-04-16	7	7
## 2007-04-26	21	21
## 2007-04-27	21	21
## 2007-05-03	21	21
## 2007-05-11	21	21
## 2007-05-18	21	21
## 2007-05-29	0	0
## 2007-06-04	12	12
## 2007-06-05	12	12
## 2007-06-12	12	12
## 2007-06-13	12	12
## 2007-06-15	12	12
## 2007-06-18	12	12
## 2007-06-20	0	0
## 2007-06-26	0	0
## 2007-06-29	0	0
## 2007-07-03	0	0
## 2007-07-11	0	0
## 2007-07-13	0	0
## 2007-07-17	1	1
## 2007-07-18	1	1
## 2007-07-20	2	2
## 2007-07-23	2	2
## 2007-08-03	20	20
## 2007-08-08	20	20
## 2007-08-14	20	20
## 2007-08-16	20	20
## 2007-08-17	20	20
## 2007-08-20	20	20
## 2007-08-27	0	0
## 2007-09-05	0	0

## 2007-09-13	5	5
## 2007-09-20	9	9
## 2007-09-21	9	9
## 2007-09-24	9	9
## 2007-10-01	9	9
## 2007-10-02	9	9
## 2007-10-04	0	0
## 2007-10-10	0	0
## 2007-10-22	7	7
## 2007-10-24	3	3
## 2007-10-30	0	0
## 2007-11-01	10	10
## 2007-11-06	10	10
## 2007-11-13	10	10
## 2007-11-19	9	9
## 2007-11-21	9	9
## 2007-11-26	9	9
## 2007-11-28	9	9
## 2007-11-30	14	14
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## 2007-12-04	14	14
## 2007-12-06	14	14
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## 2007-12-14	14	14
## 2007-12-17	14	14
## 2008-01-03	11	11
## 2008-01-07	11	11
## 2008-01-16	0	0
## 2008-01-23	0	0
## 2008-01-24	1	1
## 2008-01-28	0	0
## 2008-01-31	0	0
## 2008-02-07	0	0
## 2008-02-11	1	1
## 2008-02-15	25	25
## 2008-02-28	25	25
## 2008-03-17	25	25
## 2008-03-19	25	25
## 2008-03-20	24	25
## 2008-03-31	0	0
## 2008-04-03	0	0
## 2008-04-07	0	0
## 2008-04-08	13	13
## 2008-04-10	13	13
## 2008-04-22	13	13
## 2008-04-24	13	13
## 2008-04-28	0	0
## 2008-05-06	7	7
## 2008-05-14	7	7
## 2008-05-19	10	10

## 2008-05-20	10	10
## 2008-05-29	10	10
## 2008-06-10	20	20
## 2008-06-13	20	20
## 2008-06-16	20	20
## 2008-06-20	20	20
## 2008-06-23	20	20
## 2008-06-25	20	20
## 2008-06-27	20	20
## 2008-07-08	0	0
## 2008-07-09	6	6
## 2008-07-10	6	6
## 2008-07-11	6	6
## 2008-07-29	0	0
## 2008-08-04	0	0
## 2008-08-05	0	0
## 2008-08-06	0	0
## 2008-08-08	0	0
## 2008-08-14	0	0
## 2008-08-18	7	7
## 2008-09-02	0	0
## 2008-09-03	1	1
## 2008-09-05	0	0
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## 2017-11-07	20	20
## 2017-11-15	20	20
## 2017-11-27	0	0
## 2017-12-07	0	0
## 2017-12-08	0	0
## 2017-12-15	0	0
## 2017-12-19	0	0
## 2017-12-21	0	0
## 2018-01-02	1	1
## 2018-01-16	0	0
## 2018-01-18	0	0
## 2018-01-25	15	15
## 2018-01-26	15	15
## 2018-01-29	15	15
## 2018-01-30	15	15
## 2018-01-31	15	15
## 2018-02-05	15	15
## 2018-02-12	15	15
## 2018-02-16	0	0
## 2018-02-23	0	0
## 2018-03-02	0	0
## 2018-03-07	1	1
## 2018-03-08	0	0
## 2018-03-09	0	0
## 2018-03-12	0	0
## 2018-03-13	0	0
## 2018-03-16	11	11
## 2018-03-27	11	11
## 2018-04-04	0	0
## 2018-04-09	10	10
## 2018-04-10	10	10
## 2018-05-08	3	3
## 2018-05-10	3	3
## 2018-05-11	0	0
## 2018-05-14	0	0
## 2018-05-16	0	0
## 2018-05-17	0	0
## 2018-05-23	0	0
## 2018-06-06	1	1
## 2018-06-07	1	1
## 2018-06-08	1	1
## 2018-06-11	18	18
## 2018-06-12	18	18
## 2018-06-15	18	18
## 2018-06-18	18	18
## 2018-06-19	18	18
## 2018-06-22	18	18
## 2018-06-25	18	18
## 2018-06-26	18	18

## 2018-07-03	18	18
## 2018-07-06	18	18
## 2018-07-10	7	7
## 2018-07-12	7	7
## 2018-07-13	7	7
## 2018-07-16	7	7
## 2018-07-24	0	0
## 2018-07-27	0	0
## 2018-07-30	0	0
## 2018-08-07	10	10
## 2018-08-16	10	10
## 2018-08-21	0	0
## 2018-08-24	0	0
## 2018-08-30	0	0
## 2018-09-06	6	6
## 2018-09-12	6	6
## 2018-09-14	0	0
## 2018-09-20	0	0
## 2018-09-21	0	0
## 2018-10-02	15	15
## 2018-10-04	15	15
## 2018-10-08	15	15
## 2018-10-18	15	15
## 2018-10-19	0	0
## 2018-10-23	3	3
## 2018-10-24	3	3
## 2018-10-26	3	3
## 2018-10-31	0	0
## 2018-11-02	0	0
## 2018-11-07	0	0
## 2018-11-12	0	0
## 2018-11-14	0	0
## 2018-11-26	1	1
## 2018-12-07	15	15
## 2018-12-12	15	15
## 2018-12-14	15	15
## 2018-12-18	15	15
## 2018-12-24	15	15
## 2019-01-03	1	1
## 2019-01-10	2	2
## 2019-01-14	0	0
## 2019-01-15	1	1
## 2019-01-23	1	1
## 2019-01-28	0	0
## 2019-01-29	0	0
## 2019-01-30	0	0
## 2019-02-01	0	0
## 2019-02-05	0	0
## 2019-02-15	9	9
## 2019-02-27	0	0

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

## 2019-10-02	14	14
## 2019-10-08	14	14
## 2019-10-15	0	0
## 2019-10-18	0	0
## 2019-10-22	0	0
## 2019-10-24	0	0
## 2019-10-29	0	0
## 2019-11-01	0	0
## 2019-11-14	8	8
## 2019-11-19	8	8
## 2019-11-22	0	0
## 2019-11-26	0	0
## 2019-11-29	9	9
## 2019-12-02	9	9
## 2019-12-06	9	9
## 2019-12-11	9	9
## 2019-12-13	0	0
## 2019-12-16	0	0
## 2019-12-18	0	0
## 2019-12-20	0	0
## 2019-12-27	0	0
## 2020-01-02	8	8
## 2020-01-03	8	8
## 2020-01-06	8	8
## 2020-01-09	8	8
## 2020-01-14	8	8
## 2020-01-17	2	2
## 2020-01-31	2	2
## 2020-02-03	2	2
## 2020-02-11	0	0
## 2020-02-12	0	0
## 2020-02-19	14	14
## 2020-02-20	14	14
## 2020-02-21	14	14
## 2020-02-28	14	14
## 2020-03-06	14	14
## results_round	1	100

```

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

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

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

predKNN <- predict(knnMod_round, testingSet)
predKNN_round <- ifelse(predKNN<0,0,round(predKNN,0))

```

```

predRPART <- predict(rpartMod_round, testingSet)
predRPART_round <- ifelse(predRPART<0,0,round(predRPART,0))

predGLM <- predict(glmMod_round, testingSet)
predGLM_round <- ifelse(predGLM<0,0,round(predGLM,0))

length=length(testingSet$incrDaysThisCycle)

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

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

accuracy_KNN_round <- sumKNN_round/length
accuracy_RPART_round <- sumRPart_round/length

accuracy_GLM_round <- sumGLM_round/length

predDF2_round <- data.frame(predRF_round,predKNN_round,predRPART_round,predGLM_round,
                             IncreasingDaysThisCycle=testingSet$incrDaysThisCycle)
colnames(predDF2_round) <- c('RandomForest_round','KNN_round','Rpart_round','GLM_round','IncreasingDaysThisCycle')

results_round <- c(round(accuracy_rfMod_round,2),
                   round(accuracy_KNN_round,2),
                   round(accuracy_RPART_round,2),
                   round(accuracy_GLM_round,2),
                   round(100,2))

results_round <- as.factor(results_round)
results_round <- t(data.frame(results_round))
colnames(results_round) <- c('RandomForest_round','KNN_round','Rpart_round','GLM_round','IncreasingDaysThisCycle')
Results_round <- rbind(predDF2_round, results_round)
Results_round

```

##	RandomForest_round	KNN_round	Rpart_round	GLM_round
## 2007-01-16	0	0	0	0
## 2007-01-17	1	4	0	1
## 2007-01-22	8	7	7	8
## 2007-01-23	8	7	7	8
## 2007-01-24	8	7	7	8
## 2007-01-26	8	7	7	8
## 2007-01-29	8	7	7	8
## 2007-01-31	8	8	7	8
## 2007-02-08	0	0	0	0
## 2007-02-09	0	0	0	0
## 2007-02-16	25	25	25	25
## 2007-02-27	25	25	25	25

## 2007-03-02	25	25	25	25
## 2007-03-07	25	25	25	25
## 2007-03-12	25	25	25	25
## 2007-03-14	25	25	25	25
## 2007-03-19	25	25	25	25
## 2007-03-21	25	24	25	25
## 2007-03-22	0	0	0	0
## 2007-03-29	4	6	5	4
## 2007-04-02	4	4	5	4
## 2007-04-04	1	3	0	1
## 2007-04-05	0	0	0	0
## 2007-04-09	0	0	0	0
## 2007-04-13	7	6	7	7
## 2007-04-16	7	6	7	7
## 2007-04-26	21	21	20	21
## 2007-04-27	21	21	20	21
## 2007-05-03	21	21	20	21
## 2007-05-11	21	21	20	21
## 2007-05-18	21	21	20	21
## 2007-05-29	0	0	0	0
## 2007-06-04	12	12	10	12
## 2007-06-05	12	12	10	12
## 2007-06-12	12	12	10	12
## 2007-06-13	12	12	10	12
## 2007-06-15	12	12	10	12
## 2007-06-18	12	12	10	12
## 2007-06-20	0	0	0	0
## 2007-06-26	0	0	0	0
## 2007-06-29	0	0	0	0
## 2007-07-03	0	0	0	0
## 2007-07-11	0	0	0	0
## 2007-07-13	0	0	0	0
## 2007-07-17	1	0	0	1
## 2007-07-18	1	5	0	1
## 2007-07-20	2	4	2	2
## 2007-07-23	2	5	2	2
## 2007-08-03	20	20	20	20
## 2007-08-08	20	20	20	20
## 2007-08-14	20	20	20	20
## 2007-08-16	20	20	20	20
## 2007-08-17	20	20	20	20
## 2007-08-20	20	20	20	20
## 2007-08-27	0	0	0	0
## 2007-09-05	0	0	0	0
## 2007-09-13	5	6	5	5
## 2007-09-20	9	9	10	9
## 2007-09-21	9	9	10	9
## 2007-09-24	9	9	10	9
## 2007-10-01	9	9	10	9
## 2007-10-02	9	9	10	9



## 2007-10-04	0	0	0	0
## 2007-10-10	0	0	0	0
## 2007-10-22	7	7	7	7
## 2007-10-24	3	7	2	3
## 2007-10-30	0	0	0	0
## 2007-11-01	10	9	10	10
## 2007-11-06	10	10	10	10
## 2007-11-13	10	10	10	10
## 2007-11-19	9	9	10	9
## 2007-11-21	9	9	10	9
## 2007-11-26	9	9	10	9
## 2007-11-28	9	9	10	9
## 2007-11-30	14	12	15	14
## 2007-12-03	14	14	15	14
## 2007-12-04	14	14	15	14
## 2007-12-06	14	14	15	14
## 2007-12-10	14	14	15	14
## 2007-12-14	14	14	15	14
## 2007-12-17	14	14	15	14
## 2008-01-03	11	11	10	11
## 2008-01-07	11	11	10	11
## 2008-01-16	0	0	0	0
## 2008-01-23	0	0	0	0
## 2008-01-24	1	1	0	1
## 2008-01-28	0	0	0	0
## 2008-01-31	0	0	0	0
## 2008-02-07	0	0	0	0
## 2008-02-11	1	2	0	1
## 2008-02-15	25	25	25	25
## 2008-02-28	25	25	25	25
## 2008-03-17	25	25	25	25
## 2008-03-19	25	25	25	25
## 2008-03-20	24	20	25	25
## 2008-03-31	0	0	0	0
## 2008-04-03	0	0	0	0
## 2008-04-07	0	0	0	0
## 2008-04-08	13	10	15	13
## 2008-04-10	13	13	15	13
## 2008-04-22	13	13	15	13
## 2008-04-24	13	13	15	13
## 2008-04-28	0	0	0	0
## 2008-05-06	7	6	7	7
## 2008-05-14	7	7	7	7
## 2008-05-19	10	9	10	10
## 2008-05-20	10	10	10	10
## 2008-05-29	10	10	10	10
## 2008-06-10	20	20	20	20
## 2008-06-13	20	20	20	20
## 2008-06-16	20	20	20	20
## 2008-06-20	20	20	20	20

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

## 2009-01-22	8	8	7	8
## 2009-02-02	30	30	29	30
## 2009-02-03	30	30	29	30
## 2009-02-11	30	30	29	30
## 2009-02-17	30	30	29	30
## 2009-02-19	30	30	29	30
## 2009-02-20	30	30	29	30
## 2009-02-25	30	30	29	30
## 2009-02-26	30	30	29	30
## 2009-03-04	30	30	29	30
## 2009-03-09	30	30	29	30
## 2009-03-12	0	0	0	0
## 2009-03-18	0	0	0	0
## 2009-03-20	7	7	7	7
## 2009-03-24	7	7	7	7
## 2009-03-26	7	7	7	7
## 2009-03-31	1	1	0	1
## 2009-04-01	1	5	0	1
## 2009-04-07	0	0	0	0
## 2009-04-08	0	0	0	0
## 2009-04-13	0	0	0	0
## 2009-04-14	0	0	0	0
## 2009-04-15	0	0	0	0
## 2009-04-16	0	0	0	0
## 2009-04-17	0	0	0	0
## 2009-04-24	0	0	0	0
## 2009-04-28	1	1	0	1
## 2009-05-01	3	3	2	3
## 2009-05-06	0	0	0	0
## 2009-05-07	16	14	15	16
## 2009-05-08	16	16	15	16
## 2009-05-11	16	16	15	16
## 2009-05-14	16	16	15	16
## 2009-05-26	16	16	15	16
## 2009-05-28	16	16	15	16
## 2009-06-03	1	1	0	1
## 2009-06-05	0	0	0	0
## 2009-06-16	16	16	15	16
## 2009-06-19	16	16	15	16
## 2009-06-23	16	16	15	16
## 2009-06-30	16	16	15	16
## 2009-07-09	10	10	10	10
## 2009-07-10	10	10	10	10
## 2009-08-06	0	0	0	0
## 2009-08-12	0	0	0	0
## 2009-08-18	4	5	5	4
## 2009-08-24	0	0	0	0
## 2009-08-28	0	0	0	0
## 2009-09-02	5	5	5	5
## 2009-09-30	10	10	10	10

## 2009-10-01	10	10	10	10
## 2009-10-07	10	10	10	10
## 2009-10-14	0	0	0	0
## 2009-10-15	0	0	0	0
## 2009-10-26	14	14	15	14
## 2009-11-02	14	14	15	14
## 2009-11-03	14	14	15	14
## 2009-11-04	14	14	15	14
## 2009-11-05	14	13	15	14
## 2009-11-10	0	0	0	0
## 2009-11-11	0	0	0	0
## 2009-11-16	0	0	0	0
## 2009-11-25	0	0	0	0
## 2009-11-30	0	0	0	0
## 2009-12-01	0	0	0	0
## 2009-12-03	0	0	0	0
## 2009-12-08	0	0	0	0
## 2009-12-10	0	0	0	0
## 2009-12-11	0	0	0	0
## 2009-12-14	0	0	0	0
## 2009-12-22	0	0	0	0
## 2009-12-28	0	0	0	0
## 2010-01-04	1	1	0	1
## 2010-01-06	1	2	0	1
## 2010-01-13	0	0	0	0
## 2010-01-14	0	0	0	0
## 2010-01-21	0	0	0	0
## 2010-01-22	5	4	5	5
## 2010-01-28	5	5	5	5
## 2010-02-02	0	0	0	0
## 2010-02-03	0	0	0	0
## 2010-02-11	0	0	0	0
## 2010-02-12	0	0	0	0
## 2010-02-16	0	0	0	0
## 2010-02-18	0	0	0	0
## 2010-02-19	0	0	0	0
## 2010-02-25	0	0	0	0
## 2010-03-02	0	0	0	0
## 2010-03-04	0	0	0	0
## 2010-03-11	0	0	0	0
## 2010-03-16	0	0	0	0
## 2010-03-30	0	0	0	0
## 2010-04-07	3	3	2	3
## 2010-04-08	0	0	0	0
## 2010-04-23	7	7	7	7
## 2010-04-28	0	0	0	0
## 2010-05-03	0	0	0	0
## 2010-05-04	0	0	0	0
## 2010-05-05	0	0	0	0
## 2010-05-06	4	5	5	4

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

## 2011-01-13	7	7	7	7
## 2011-01-14	7	7	7	7
## 2011-01-28	1	2	0	1
## 2011-02-03	7	7	7	7
## 2011-02-04	7	7	7	7
## 2011-02-10	7	8	7	7
## 2011-02-11	0	0	0	0
## 2011-02-22	11	11	10	11
## 2011-02-25	11	11	10	11
## 2011-02-28	11	11	10	11
## 2011-03-09	0	0	0	0
## 2011-03-16	1	3	0	1
## 2011-03-23	3	3	2	3
## 2011-03-24	3	2	2	3
## 2011-03-31	3	2	2	3
## 2011-04-04	10	10	10	10
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## 2011-04-11	10	10	10	10
## 2011-04-13	10	10	10	10
## 2011-04-26	0	0	0	0
## 2011-04-27	0	0	0	0
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## 2011-06-09	16	16	15	16
## 2011-06-14	16	16	15	16
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## 2011-06-20	0	0	0	0
## 2011-06-22	0	0	0	0
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## 2011-07-11	29	29	29	29
## 2011-07-13	29	29	29	29
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## 2011-07-22	29	29	29	29
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## 2011-08-25	7	7	7	7
## 2011-08-26	7	7	7	7
## 2011-08-29	0	0	0	0
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## 2011-09-06	7	7	7	7

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## 2011-10-13	0	0	0	0
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## 2011-11-22	16	16	15	16
## 2011-11-25	16	16	15	16
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## 2012-01-20	0	0	0	0
## 2012-01-31	0	0	0	0
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## 2012-03-02	20	20	20	20
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## 2012-03-13	20	15	20	20
## 2012-03-15	0	0	0	0
## 2012-03-28	0	0	0	0
## 2012-04-11	0	0	0	0
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## 2012-04-20	0	0	0	0
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## 2012-06-12	6	6	5	6
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## 2013-02-14	10	10	10	10
## 2013-02-15	10	10	10	10
## 2013-02-26	10	10	10	10



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## 2018-05-10	3	5	2	3
## 2018-05-11	0	0	0	0
## 2018-05-14	0	0	0	0
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## 2018-05-23	0	0	0	0
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## 2018-06-08	1	2	0	1
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## 2018-06-25	18	18	20	18
## 2018-06-26	18	18	20	18
## 2018-07-03	18	18	20	18
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## 2018-08-16	10	10	10	10
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## 2018-10-04	15	15	15	15
## 2018-10-08	15	15	15	15
## 2018-10-18	15	13	15	15
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## 2018-10-24	3	3	2	3
## 2018-10-26	3	5	2	3
## 2018-10-31	0	0	0	0
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## 2018-12-24	15	15	15	15
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## 2019-03-08	14	14	15	14
## 2019-03-19	14	14	15	14
## 2019-03-21	5	3	5	5
## 2019-03-22	5	5	5	5
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## 2019-04-23	7	8	7	7
## 2019-04-26	7	6	7	7
## 2019-04-29	7	8	7	7
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## 2019-05-31	16	16	15	16
## 2019-06-03	16	16	15	16
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## 2019-10-15	0	0	0	0
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## 2019-12-11	9	8	10	9
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## 2020-01-17	2	2	2	2
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## 2020-02-03	2	4	2	2
## 2020-02-11	0	0	0	0
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## 2020-02-20	14	14	15	14
## 2020-02-21	14	14	15	14
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## 2020-03-06	14	14	15	14
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## 2007-01-24	8			
## 2007-01-26	8			
## 2007-01-29	8			
## 2007-01-31	8			
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## 2007-02-27	25			
## 2007-03-02	25			
## 2007-03-07	25			
## 2007-03-12	25			
## 2007-03-14	25			
## 2007-03-19	25			
## 2007-03-21	25			

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## 2007-04-05	0
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## 2007-04-27	21
## 2007-05-03	21
## 2007-05-11	21
## 2007-05-18	21
## 2007-05-29	0
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## 2007-06-12	12
## 2007-06-13	12
## 2007-06-15	12
## 2007-06-18	12
## 2007-06-20	0
## 2007-06-26	0
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## 2007-09-21	9
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## 2007-12-10	14
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## 2014-06-02	0
## 2014-06-03	0
## 2014-06-10	0
## 2014-06-16	6
## 2014-06-23	0
## 2014-06-24	0
## 2014-06-25	0

## 2014-06-26	0
## 2014-07-10	9
## 2014-07-15	0
## 2014-07-21	2
## 2014-07-29	15
## 2014-07-31	15
## 2014-08-08	15
## 2014-08-12	15
## 2014-08-15	0
## 2014-08-20	0
## 2014-08-26	5
## 2014-09-03	9
## 2014-09-04	9
## 2014-09-05	9
## 2014-09-15	9
## 2014-09-17	1
## 2014-09-29	10
## 2014-10-08	9
## 2014-10-10	9
## 2014-10-15	9
## 2014-10-21	0
## 2014-10-22	0
## 2014-10-24	0
## 2014-10-30	0
## 2014-10-31	0
## 2014-11-12	0
## 2014-11-14	0
## 2014-11-28	0
## 2014-12-04	0
## 2014-12-08	1
## 2014-12-12	0
## 2014-12-16	2
## 2014-12-22	0
## 2014-12-24	0
## 2015-01-02	0
## 2015-01-08	7
## 2015-01-27	0
## 2015-02-02	10
## 2015-02-09	10
## 2015-02-12	2
## 2015-02-24	0
## 2015-02-25	0
## 2015-03-03	10
## 2015-03-09	10
## 2015-03-10	10
## 2015-03-12	10
## 2015-03-19	0
## 2015-03-24	0
## 2015-03-26	14
## 2015-04-20	0

## 2015-04-22	0
## 2015-04-23	0
## 2015-04-24	0
## 2015-05-08	0
## 2015-05-13	2
## 2015-05-18	9
## 2015-05-22	9
## 2015-05-26	9
## 2015-05-29	9
## 2015-06-05	8
## 2015-06-08	8
## 2015-06-11	8
## 2015-06-29	8
## 2015-06-30	8
## 2015-07-07	8
## 2015-07-13	0
## 2015-07-15	0
## 2015-07-24	3
## 2015-08-04	0
## 2015-08-05	0
## 2015-08-06	0
## 2015-08-12	2
## 2015-08-21	9
## 2015-08-24	9
## 2015-08-25	9
## 2015-08-27	9
## 2015-09-01	9
## 2015-09-15	0
## 2015-09-16	0
## 2015-09-18	0
## 2015-09-23	11
## 2015-10-02	11
## 2015-10-19	0
## 2015-10-22	0
## 2015-10-23	0
## 2015-11-04	18
## 2015-11-05	18
## 2015-11-09	18
## 2015-11-11	18
## 2015-11-13	18
## 2015-11-17	18
## 2015-11-18	18
## 2015-11-19	18
## 2015-11-30	18
## 2015-12-01	0
## 2015-12-02	0
## 2015-12-07	0
## 2015-12-08	0
## 2015-12-11	7
## 2015-12-14	7



## 2015-12-29	0
## 2016-01-06	9
## 2016-01-07	9
## 2016-01-14	7
## 2016-01-19	7
## 2016-01-21	7
## 2016-01-26	7
## 2016-02-08	11
## 2016-02-09	11
## 2016-02-11	11
## 2016-02-18	0
## 2016-02-22	0
## 2016-02-23	0
## 2016-02-29	0
## 2016-03-01	0
## 2016-03-08	1
## 2016-03-11	0
## 2016-03-16	0
## 2016-03-22	14
## 2016-03-24	14
## 2016-03-31	14
## 2016-04-13	0
## 2016-04-20	0
## 2016-04-26	21
## 2016-04-27	21
## 2016-05-11	21
## 2016-05-16	21
## 2016-05-17	21
## 2016-05-18	21
## 2016-05-19	21
## 2016-05-26	7
## 2016-05-27	7
## 2016-06-01	7
## 2016-06-03	7
## 2016-06-08	0
## 2016-06-16	15
## 2016-06-23	15
## 2016-06-28	15
## 2016-07-07	0
## 2016-07-14	0
## 2016-07-15	0
## 2016-07-19	0
## 2016-07-20	0
## 2016-07-21	0
## 2016-07-29	1
## 2016-08-03	7
## 2016-08-08	7
## 2016-08-11	0
## 2016-08-17	0
## 2016-08-30	0

## 2016-09-07	0
## 2016-09-13	9
## 2016-09-21	9
## 2016-09-26	9
## 2016-09-27	0
## 2016-09-30	0
## 2016-10-10	0
## 2016-10-11	1
## 2016-10-12	1
## 2016-10-13	0
## 2016-10-18	0
## 2016-10-21	0
## 2016-10-25	0
## 2016-10-28	1
## 2016-10-31	3
## 2016-11-01	3
## 2016-11-04	0
## 2016-11-07	0
## 2016-11-17	0
## 2016-11-18	0
## 2016-11-22	0
## 2016-11-28	0
## 2016-11-30	1
## 2016-12-06	2
## 2016-12-13	0
## 2016-12-16	1
## 2016-12-22	0
## 2016-12-27	0
## 2017-01-17	0
## 2017-01-18	0
## 2017-01-24	3
## 2017-01-26	8
## 2017-01-27	8
## 2017-01-31	8
## 2017-02-03	8
## 2017-02-06	8
## 2017-02-09	0
## 2017-02-13	0
## 2017-02-17	0
## 2017-02-27	5
## 2017-03-03	13
## 2017-03-08	13
## 2017-03-09	13
## 2017-03-10	13
## 2017-03-14	13
## 2017-03-17	13
## 2017-03-21	13
## 2017-03-22	13
## 2017-03-29	0
## 2017-04-04	5

## 2017-04-05	5
## 2017-04-10	5
## 2017-04-12	0
## 2017-04-25	0
## 2017-05-02	6
## 2017-05-08	0
## 2017-05-19	4
## 2017-05-23	0
## 2017-05-24	0
## 2017-05-31	0
## 2017-06-01	0
## 2017-06-02	0
## 2017-06-06	0
## 2017-06-09	0
## 2017-06-19	12
## 2017-06-23	12
## 2017-06-27	12
## 2017-06-30	0
## 2017-07-06	0
## 2017-07-11	0
## 2017-07-18	1
## 2017-07-21	11
## 2017-08-07	18
## 2017-08-08	18
## 2017-08-10	18
## 2017-08-23	18
## 2017-08-28	18
## 2017-09-08	3
## 2017-09-26	0
## 2017-09-27	0
## 2017-10-02	0
## 2017-10-04	0
## 2017-10-11	0
## 2017-10-12	0
## 2017-10-17	0
## 2017-10-19	20
## 2017-10-20	20
## 2017-10-24	20
## 2017-11-03	20
## 2017-11-07	20
## 2017-11-15	20
## 2017-11-27	0
## 2017-12-07	0
## 2017-12-08	0
## 2017-12-15	0
## 2017-12-19	0
## 2017-12-21	0
## 2018-01-02	1
## 2018-01-16	0
## 2018-01-18	0

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

## 2018-08-24	0
## 2018-08-30	0
## 2018-09-06	6
## 2018-09-12	6
## 2018-09-14	0
## 2018-09-20	0
## 2018-09-21	0
## 2018-10-02	15
## 2018-10-04	15
## 2018-10-08	15
## 2018-10-18	15
## 2018-10-19	0
## 2018-10-23	3
## 2018-10-24	3
## 2018-10-26	3
## 2018-10-31	0
## 2018-11-02	0
## 2018-11-07	0
## 2018-11-12	0
## 2018-11-14	0
## 2018-11-26	1
## 2018-12-07	15
## 2018-12-12	15
## 2018-12-14	15
## 2018-12-18	15
## 2018-12-24	15
## 2019-01-03	1
## 2019-01-10	2
## 2019-01-14	0
## 2019-01-15	1
## 2019-01-23	1
## 2019-01-28	0
## 2019-01-29	0
## 2019-01-30	0
## 2019-02-01	0
## 2019-02-05	0
## 2019-02-15	9
## 2019-02-27	0
## 2019-03-01	14
## 2019-03-08	14
## 2019-03-19	14
## 2019-03-21	5
## 2019-03-22	5
## 2019-03-29	0
## 2019-04-02	0
## 2019-04-18	7
## 2019-04-23	7
## 2019-04-26	7
## 2019-04-29	7
## 2019-04-30	7

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

## 2019-11-29	9
## 2019-12-02	9
## 2019-12-06	9
## 2019-12-11	9
## 2019-12-13	0
## 2019-12-16	0
## 2019-12-18	0
## 2019-12-20	0
## 2019-12-27	0
## 2020-01-02	8
## 2020-01-03	8
## 2020-01-06	8
## 2020-01-09	8
## 2020-01-14	8
## 2020-01-17	2
## 2020-01-31	2
## 2020-02-03	2
## 2020-02-11	0
## 2020-02-12	0
## 2020-02-19	14
## 2020-02-20	14
## 2020-02-21	14
## 2020-02-28	14
## 2020-03-06	14
## results_round	100

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

## Results

##	RandomForest	KNN	Rpart
## 2007-01-16	0.2659999999999992	0	0.0725581395348837
## 2007-01-17	1.188	4.4	0.0725581395348837
## 2007-01-22	8.008	7.4	7.30805687203791
## 2007-01-23	8.024	7.4	7.30805687203791
## 2007-01-24	8.04	7.4	7.30805687203791
## 2007-01-26	8.04	7.4	7.30805687203791
## 2007-01-29	8.04	7.4	7.30805687203791
## 2007-01-31	8.008	8.2	7.30805687203791
## 2007-02-08	-1.55662149836644e-14	0	0.0725581395348837
## 2007-02-09	-2.04600780762121e-14	0	0.0725581395348837
## 2007-02-16	25	25	25
## 2007-02-27	25	25	25
## 2007-03-02	25	25	25
## 2007-03-07	25	25	25
## 2007-03-12	25	25	25
## 2007-03-14	25	25	25
## 2007-03-19	25	25	25
## 2007-03-21	24.804	23.5	25

## 2007-03-22	0.0299999999999766	0	0.0725581395348837
## 2007-03-29	3.994	5.8	5.08849557522124
## 2007-04-02	4	4.2	5.08849557522124
## 2007-04-04	1.034	3.4	0.0725581395348837
## 2007-04-05	0.0299999999999765	0	0.0725581395348837
## 2007-04-09	0.0299999999999767	0	0.0725581395348837
## 2007-04-13	7	6.4	7.30805687203791
## 2007-04-16	7	6.4	7.30805687203791
## 2007-04-26	21	21	19.9025974025974
## 2007-04-27	21	21	19.9025974025974
## 2007-05-03	21	21	19.9025974025974
## 2007-05-11	21	21	19.9025974025974
## 2007-05-18	21	21	19.9025974025974
## 2007-05-29	-2.66382471636462e-14	0	0.0725581395348837
## 2007-06-04	12	12	9.98606271777003
## 2007-06-05	12	12	9.98606271777003
## 2007-06-12	12	12	9.98606271777003
## 2007-06-13	12	12	9.98606271777003
## 2007-06-15	12	12	9.98606271777003
## 2007-06-18	12	11.6	9.98606271777003
## 2007-06-20	0.0319999999999721	0	0.0725581395348837
## 2007-06-26	-2.88942203496845e-14	0	0.0725581395348837
## 2007-06-29	-2.98978619639456e-14	0	0.0725581395348837
## 2007-07-03	-2.93489677005709e-14	0	0.0725581395348837
## 2007-07-11	-2.90203416852819e-14	0	0.0725581395348837
## 2007-07-13	-2.95106161729564e-14	0	0.0725581395348837
## 2007-07-17	1	0.2	0.0725581395348837
## 2007-07-18	1.038	4.6	0.0725581395348837
## 2007-07-20	2.008	4.2	2.4468085106383
## 2007-07-23	2.012	4.6	2.4468085106383
## 2007-08-03	20	20	19.9025974025974
## 2007-08-08	20	20	19.9025974025974
## 2007-08-14	20	20	19.9025974025974
## 2007-08-16	20	20	19.9025974025974
## 2007-08-17	20	20	19.9025974025974
## 2007-08-20	20	20	19.9025974025974
## 2007-08-27	-3.12478931618898e-14	0	0.0725581395348837
## 2007-09-05	-3.14361869868662e-14	0	0.0725581395348837
## 2007-09-13	5	5.8	5.08849557522124
## 2007-09-20	9	8.6	9.98606271777003
## 2007-09-21	9	9.2	9.98606271777003
## 2007-09-24	9	9.2	9.98606271777003
## 2007-10-01	9	9.2	9.98606271777003
## 2007-10-02	8.96	9	9.98606271777003
## 2007-10-04	-3.16902060149005e-14	0	0.0725581395348837
## 2007-10-10	-3.17221804380097e-14	0	0.0725581395348837
## 2007-10-22	7	7	7.30805687203791
## 2007-10-24	3	7	2.4468085106383
## 2007-10-30	-2.93045587795859e-14	0	0.0725581395348837
## 2007-11-01	10	9.4	9.98606271777003



## 2007-11-06	10	10	9.98606271777003
## 2007-11-13	10	10	9.98606271777003
## 2007-11-19	9	9.2	9.98606271777003
## 2007-11-21	9	9.2	9.98606271777003
## 2007-11-26	9	9.2	9.98606271777003
## 2007-11-28	9	9.2	9.98606271777003
## 2007-11-30	14	11.8	14.6610878661088
## 2007-12-03	14	14	14.6610878661088
## 2007-12-04	14	14	14.6610878661088
## 2007-12-06	14	14	14.6610878661088
## 2007-12-10	14	14	14.6610878661088
## 2007-12-14	14	14	14.6610878661088
## 2007-12-17	14	14	14.6610878661088
## 2008-01-03	11	11	9.98606271777003
## 2008-01-07	11	11	9.98606271777003
## 2008-01-16 -3.12301295934958e-14		0	0.0725581395348837
## 2008-01-23 -2.90381052536759e-14		0	0.0725581395348837
## 2008-01-24	1	1.4	0.0725581395348837
## 2008-01-28 -3.17861292842281e-14		0	0.0725581395348837
## 2008-01-31 -3.18571835578041e-14		0	0.0725581395348837
## 2008-02-07 -3.19619886113287e-14		0	0.0725581395348837
## 2008-02-11	1	1.6	0.0725581395348837
## 2008-02-15	25	25	25
## 2008-02-28	25	25	25
## 2008-03-17	25.008	25	25
## 2008-03-19	25.008	25	25
## 2008-03-20	24.402	20	25
## 2008-03-31 -3.04236635884081e-14		0	0.0725581395348837
## 2008-04-03 -3.05728775629177e-14		0	0.0725581395348837
## 2008-04-07 -3.06759062596029e-14		0	0.0725581395348837
## 2008-04-08	12.968	10	14.6610878661088
## 2008-04-10	13	13	14.6610878661088
## 2008-04-22	13	13	14.6610878661088
## 2008-04-24	13	13	14.6610878661088
## 2008-04-28 -3.06616954048877e-14		0	0.0725581395348837
## 2008-05-06	7	5.8	7.30805687203791
## 2008-05-14	7	7	7.30805687203791
## 2008-05-19	9.996	9.2	9.98606271777003
## 2008-05-20	10	10	9.98606271777003
## 2008-05-29	10	10	9.98606271777003
## 2008-06-10	20	20	19.9025974025974
## 2008-06-13	20	20	19.9025974025974
## 2008-06-16	20	20	19.9025974025974
## 2008-06-20	20	20	19.9025974025974
## 2008-06-23	20	20	19.9025974025974
## 2008-06-25	20	20	19.9025974025974
## 2008-06-27	20	20	19.9025974025974
## 2008-07-08 -2.59863242035863e-14		0	0.0725581395348837
## 2008-07-09	5.992	6.4	5.08849557522124
## 2008-07-10	6	6.4	5.08849557522124

## 2008-07-11	6	6.4	5.08849557522124
## 2008-07-29	-3.04076763768535e-14	0	0.0725581395348837
## 2008-08-04	-3.05497849240055e-14	0	0.0725581395348837
## 2008-08-05	-3.06279446249391e-14	0	0.0725581395348837
## 2008-08-06	-3.06279446249391e-14	0	0.0725581395348837
## 2008-08-08	-3.09494652128706e-14	0	0.0725581395348837
## 2008-08-14	-3.11004555442196e-14	0	0.0725581395348837
## 2008-08-18	6.986	6.6	7.30805687203791
## 2008-09-02	-3.07309733216243e-14	0	0.0725581395348837
## 2008-09-03	1	1.8	0.0725581395348837
## 2008-09-05	-2.92708079996373e-14	0	0.0725581395348837
## 2008-09-08	4	3.4	5.08849557522124
## 2008-09-09	4	4.4	5.08849557522124
## 2008-09-10	4	4	5.08849557522124
## 2008-09-11	4	4.83333333333333	5.08849557522124
## 2008-09-12	4	3.8	5.08849557522124
## 2008-09-16	0.01399999999999689	0	0.0725581395348837
## 2008-09-18	-3.10471648390376e-14	0	0.0725581395348837
## 2008-09-22	7	7	7.30805687203791
## 2008-09-25	7	7	7.30805687203791
## 2008-10-06	8	7.8	7.30805687203791
## 2008-10-13	8	7.8	7.30805687203791
## 2008-10-14	8	7.8	7.30805687203791
## 2008-10-17	-3.07682768152517e-14	0	0.0725581395348837
## 2008-10-21	-3.10116377022496e-14	0	0.0725581395348837
## 2008-10-24	-3.10116377022496e-14	0	0.0725581395348837
## 2008-10-28	-3.10915737600226e-14	0	0.0725581395348837
## 2008-10-30	-3.10915737600226e-14	0	0.0725581395348837
## 2008-11-07	13	13	14.6610878661088
## 2008-11-18	13	13	14.6610878661088
## 2008-11-20	12.974	13	14.6610878661088
## 2008-11-21	12.974	13	14.6610878661088
## 2008-11-25	2.014	1.4	2.4468085106383
## 2008-12-10	-3.1421976132151e-14	0	0.0725581395348837
## 2008-12-15	3	3.2	2.4468085106383
## 2008-12-23	-3.04929415051447e-14	0	0.0725581395348837
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## 2008-12-30	-3.06492609070119e-14	0	0.0725581395348837
## 2008-12-31	-3.07665004584123e-14	0	0.0725581395348837
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## 2009-01-06	-3.08943981508492e-14	0	0.0725581395348837
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## 2009-01-15	8	7.8	7.30805687203791
## 2009-01-21	8	7.8	7.30805687203791
## 2009-01-22	8	7.8	7.30805687203791
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## 2009-02-03	30	30	29.4772727272727
## 2009-02-11	30	30	29.4772727272727
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## 2009-02-20	30	30	29.4772727272727
## 2009-02-25	30	30	29.4772727272727
## 2009-02-26	30	30	29.4772727272727
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## 2009-03-12	-2.89492874117059e-14	0	0.0725581395348837
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## 2009-03-24	7	7.4	7.30805687203791
## 2009-03-26	7	7.4	7.30805687203791
## 2009-03-31	1	1.4	0.0725581395348837
## 2009-04-01	1	4.6	0.0725581395348837
## 2009-04-07	-2.92086355102583e-14	0	0.0725581395348837
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## 2009-05-11	16	16	14.6610878661088
## 2009-05-14	16	16	14.6610878661088
## 2009-05-26	16	16	14.6610878661088
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## 2009-06-23	16	16	14.6610878661088
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## 2009-11-03	14	14	14.6610878661088
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## 2009-12-22	-3.07220915374273e-14	0	0.0725581395348837
## 2009-12-28	-3.07220915374273e-14	0	0.0725581395348837
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## 2010-01-28	5	4.8	5.08849557522124
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## 2010-02-11	-3.01891844856073e-14	0	0.0725581395348837
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## 2010-02-16	-3.02673441865409e-14	0	0.0725581395348837
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## 2010-02-25	-3.02673441865409e-14	0	0.0725581395348837
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## 2011-02-11	-3.20667936648533e-14	0	0.0725581395348837
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## 2011-03-23	3	2.6	2.4468085106383
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## 2012-04-20	-3.09725578517828e-14	0	0.0725581395348837
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## 2012-05-03	-3.15765191771789e-14	0	0.0725581395348837
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## 2012-07-31	23	23	19.9025974025974
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## 2012-09-21	9	9.2	9.98606271777003
## 2012-09-25	9	9.2	9.98606271777003
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## 2012-11-26 -3.22586402035085e-14		0	0.0725581395348837
## 2012-11-28 -3.22586402035085e-14		0	0.0725581395348837
## 2012-11-30 -3.22586402035085e-14		0	0.0725581395348837
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## 2012-12-21 -3.25695026504036e-14		0	0.0725581395348837
## 2012-12-28	1	2.4	0.0725581395348837
## 2012-12-31 -3.27613491890588e-14		0	0.0725581395348837
## 2013-01-02 -3.27613491890588e-14		0	0.0725581395348837
## 2013-01-14	5.004	4	5.08849557522124
## 2013-01-18	5	5	5.08849557522124
## 2013-01-25 -3.22248894235599e-14		0	0.0725581395348837
## 2013-01-31	7	7.2	7.30805687203791
## 2013-02-05	7	6.8	7.30805687203791
## 2013-02-07 -3.25233173725792e-14		0	0.0725581395348837
## 2013-02-12 -3.24185123190546e-14		0	0.0725581395348837
## 2013-02-13	9.998	7.6	9.98606271777003
## 2013-02-14	10	10	9.98606271777003
## 2013-02-15	10	10	9.98606271777003
## 2013-02-26	10	10	9.98606271777003
## 2013-02-27	10	10	9.98606271777003
## 2013-03-01 -3.32889271703607e-14		0	0.0725581395348837
## 2013-03-04 -3.32889271703607e-14		0	0.0725581395348837
## 2013-03-05 -3.32889271703607e-14		0	0.0725581395348837
## 2013-03-06 -3.32889271703607e-14		0	0.0725581395348837
## 2013-03-11 -3.33066907387547e-14		0	0.0725581395348837



## 2013-03-12	-3.33066907387547e-14	0	0.0725581395348837
## 2013-03-21	-3.34630101406219e-14	0	0.0725581395348837
## 2013-04-03	8	8	7.30805687203791
## 2013-04-05	8	8	7.30805687203791
## 2013-04-11	-2.95159452434746e-14	0	0.0725581395348837
## 2013-04-12	1	2.2	0.0725581395348837
## 2013-04-17	-3.25695026504036e-14	0	0.0725581395348837
## 2013-04-19	1.02	2	0.0725581395348837
## 2013-04-26	-3.35624861236283e-14	0	0.0725581395348837
## 2013-05-06	-3.35340644141979e-14	0	0.0725581395348837
## 2013-05-08	-3.35340644141979e-14	0	0.0725581395348837
## 2013-05-16	-3.36388694677225e-14	0	0.0725581395348837
## 2013-05-17	-3.36388694677225e-14	0	0.0725581395348837
## 2013-05-20	-3.35713679078253e-14	0	0.0725581395348837
## 2013-05-23	15	13	14.6610878661088
## 2013-06-06	15	15	14.6610878661088
## 2013-06-12	15	15	14.6610878661088
## 2013-06-13	15	15	14.6610878661088
## 2013-06-14	15	11.4	14.6610878661088
## 2013-06-18	8.002	4.8	7.30805687203791
## 2013-06-20	8	8	7.30805687203791
## 2013-06-21	8	8	7.30805687203791
## 2013-06-24	8	8	7.30805687203791
## 2013-06-25	7.998	8	7.30805687203791
## 2013-07-01	-3.31841221168361e-14	0	0.0725581395348837
## 2013-07-10	-3.32498473198939e-14	0	0.0725581395348837
## 2013-07-16	-3.33315597345063e-14	0	0.0725581395348837
## 2013-07-18	-3.33848504396883e-14	0	0.0725581395348837
## 2013-07-19	-3.33848504396883e-14	0	0.0725581395348837
## 2013-07-23	-3.33297833776669e-14	0	0.0725581395348837
## 2013-07-30	-3.34559047132643e-14	0	0.0725581395348837
## 2013-08-05	13.772	12.4	14.6610878661088
## 2013-08-08	14	14.2	14.6610878661088
## 2013-08-12	14	14	14.6610878661088
## 2013-08-28	2	3	2.4468085106383
## 2013-09-06	-3.34967609205705e-14	0	0.0725581395348837
## 2013-09-10	-3.35873551193799e-14	0	0.0725581395348837
## 2013-09-12	-3.35624861236283e-14	0	0.0725581395348837
## 2013-09-17	-3.36530803224377e-14	0	0.0725581395348837
## 2013-09-18	-3.36530803224377e-14	0	0.0725581395348837
## 2013-09-19	-3.36637384634741e-14	0	0.0725581395348837
## 2013-09-20	-3.36637384634741e-14	0	0.0725581395348837
## 2013-09-26	-3.36637384634741e-14	0	0.0725581395348837
## 2013-10-02	-3.29780647234657e-14	0	0.0725581395348837
## 2013-10-03	-3.30366844991659e-14	0	0.0725581395348837
## 2013-10-04	-3.30366844991659e-14	0	0.0725581395348837
## 2013-10-10	-3.30366844991659e-14	0	0.0725581395348837
## 2013-10-14	1.02	3.8	0.0725581395348837
## 2013-10-25	-3.33351124481851e-14	0	0.0725581395348837
## 2013-11-01	-3.30651062085963e-14	0	0.0725581395348837

## 2013-11-05	-3.31148442000995e-14	0	0.0725581395348837
## 2013-11-06	1.004	3.2	0.0725581395348837
## 2013-11-07	1	1.4	0.0725581395348837
## 2013-11-13	-3.35376171278767e-14	0	0.0725581395348837
## 2013-11-15	-3.36246586130073e-14	0	0.0725581395348837
## 2013-11-20	-3.35145244889645e-14	0	0.0725581395348837
## 2013-11-26	8	7.4	7.30805687203791
## 2013-11-27	8	7.6	7.30805687203791
## 2013-12-03	8	8	7.30805687203791
## 2013-12-04	8	8	7.30805687203791
## 2013-12-06	8	1.8	7.30805687203791
## 2013-12-10	-3.35660388373071e-14	0	0.0725581395348837
## 2013-12-16	-3.34932082068917e-14	0	0.0725581395348837
## 2013-12-18	-3.34292593606733e-14	0	0.0725581395348837
## 2013-12-19	-3.34292593606733e-14	0	0.0725581395348837
## 2013-12-26	5	7.2	5.08849557522124
## 2013-12-27	5	7.2	5.08849557522124
## 2013-12-31	5	7.2	5.08849557522124
## 2014-01-02	5.012	5.4	5.08849557522124
## 2014-01-07	-3.28235216784378e-14	0	0.0725581395348837
## 2014-01-10	-3.27009530565192e-14	0	0.0725581395348837
## 2014-01-13	-3.28235216784378e-14	0	0.0725581395348837
## 2014-01-21	-3.27613491890588e-14	0	0.0725581395348837
## 2014-01-24	-3.27204929817526e-14	0	0.0725581395348837
## 2014-02-04	-3.24718030242366e-14	0	0.0725581395348837
## 2014-02-06	-3.23439053317998e-14	0	0.0725581395348837
## 2014-02-11	-3.17630366453159e-14	0	0.0725581395348837
## 2014-02-18	2	2.6	2.4468085106383
## 2014-02-25	-3.14646086962966e-14	0	0.0725581395348837
## 2014-02-28	-3.15090176172816e-14	0	0.0725581395348837
## 2014-03-03	-3.20952153742837e-14	0	0.0725581395348837
## 2014-03-04	-3.15978354592517e-14	0	0.0725581395348837
## 2014-03-07	-3.20294901712259e-14	0	0.0725581395348837
## 2014-03-11	-3.18909343377527e-14	0	0.0725581395348837
## 2014-03-14	7	7	7.30805687203791
## 2014-04-10	7	7	7.30805687203791
## 2014-04-17	7	7	7.30805687203791
## 2014-04-24	-3.19904103207591e-14	0	0.0725581395348837
## 2014-05-01	2	1.6	2.4468085106383
## 2014-05-13	-3.30064864328961e-14	0	0.0725581395348837
## 2014-05-16	-3.2811087180562e-14	0	0.0725581395348837
## 2014-05-21	3	2.6	2.4468085106383
## 2014-05-27	-3.30633298517569e-14	0	0.0725581395348837
## 2014-06-02	-3.29833937939839e-14	0	0.0725581395348837
## 2014-06-03	-3.29567484413928e-14	0	0.0725581395348837
## 2014-06-10	-3.2606806144031e-14	0	0.0725581395348837
## 2014-06-16	6	5.8	5.08849557522124
## 2014-06-23	-3.21591642205021e-14	0	0.0725581395348837
## 2014-06-24	-3.22373239214357e-14	0	0.0725581395348837
## 2014-06-25	-3.22373239214357e-14	0	0.0725581395348837

## 2014-06-26	-3.21591642205021e-14	0	0.0725581395348837
## 2014-07-10	8.988	9	9.98606271777003
## 2014-07-15	-3.22213367098811e-14	0	0.0725581395348837
## 2014-07-21	1.996	2.4	2.4468085106383
## 2014-07-29	15	15	14.6610878661088
## 2014-07-31	15	15	14.6610878661088
## 2014-08-08	15	15	14.6610878661088
## 2014-08-12	15	15	14.6610878661088
## 2014-08-15	-3.31592531210845e-14	0	0.0725581395348837
## 2014-08-20	-3.30349081423265e-14	0	0.0725581395348837
## 2014-08-26	5	5.4	5.08849557522124
## 2014-09-03	9	9	9.98606271777003
## 2014-09-04	9	9	9.98606271777003
## 2014-09-05	9	9	9.98606271777003
## 2014-09-15	9	7.8	9.98606271777003
## 2014-09-17	1	1.6	0.0725581395348837
## 2014-09-29	10	10	9.98606271777003
## 2014-10-08	9	9.2	9.98606271777003
## 2014-10-10	9	9	9.98606271777003
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## 2014-10-21	-3.27808891142922e-14	0	0.0725581395348837
## 2014-10-22	-3.24416049579668e-14	0	0.0725581395348837
## 2014-10-24	-3.32534000335727e-14	0	0.0725581395348837
## 2014-10-30	-3.31699112621209e-14	0	0.0725581395348837
## 2014-10-31	-3.30899752043479e-14	0	0.0725581395348837
## 2014-11-12	-3.25144355883822e-14	0	0.0725581395348837
## 2014-11-14	-3.21556115068233e-14	0	0.0725581395348837
## 2014-11-28	-3.24664739537184e-14	0	0.0725581395348837
## 2014-12-04	-3.21893622867719e-14	0	0.0725581395348837
## 2014-12-08	1	2	0.0725581395348837
## 2014-12-12	-3.15321102561938e-14	0	0.0725581395348837
## 2014-12-16	2	2	2.4468085106383
## 2014-12-22	-3.16422443802367e-14	0	0.0725581395348837
## 2014-12-24	-3.10986791873802e-14	0	0.0725581395348837
## 2015-01-02	-2.84199330735646e-14	0	0.0725581395348837
## 2015-01-08	6.972	8.4	7.30805687203791
## 2015-01-27	-3.04254399452475e-14	0	0.0725581395348837
## 2015-02-02	10	10	9.98606271777003
## 2015-02-09	10	10	9.98606271777003
## 2015-02-12	2	2	2.4468085106383
## 2015-02-24	-3.12105896682624e-14	0	0.0725581395348837
## 2015-02-25	-3.18429727030889e-14	0	0.0725581395348837
## 2015-03-03	10	10	9.98606271777003
## 2015-03-09	10	10	9.98606271777003
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## 2015-03-19	-2.71231925808024e-14	0	0.0725581395348837
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## 2015-03-26	14	14	14.6610878661088
## 2015-04-20	-3.15836246045365e-14	0	0.0725581395348837

## 2015-04-22	-3.10649284074316e-14	0	0.0725581395348837
## 2015-04-23	-3.1102231901059e-14	0	0.0725581395348837
## 2015-04-24	-3.02726732570591e-14	0	0.0725581395348837
## 2015-05-08	-2.92690316427979e-14	0	0.0725581395348837
## 2015-05-13	2.014	2	2.4468085106383
## 2015-05-18	9	9.8	9.98606271777003
## 2015-05-22	9	9	9.98606271777003
## 2015-05-26	8.982	9	9.98606271777003
## 2015-05-29	8.982	8.2	9.98606271777003
## 2015-06-05	8	8	7.30805687203791
## 2015-06-08	8	8	7.30805687203791
## 2015-06-11	8	8	7.30805687203791
## 2015-06-29	8	8	7.30805687203791
## 2015-06-30	8	8	7.30805687203791
## 2015-07-07	8	8	7.30805687203791
## 2015-07-13	-3.13757908543266e-14	0	0.0725581395348837
## 2015-07-15	-3.13988834932388e-14	0	0.0725581395348837
## 2015-07-24	3	2.6	2.4468085106383
## 2015-08-04	-3.11661807472774e-14	0	0.0725581395348837
## 2015-08-05	-3.10329539843224e-14	0	0.0725581395348837
## 2015-08-06	-3.12549985892474e-14	0	0.0725581395348837
## 2015-08-12	1.996	2.6	2.4468085106383
## 2015-08-21	9	8.8	9.98606271777003
## 2015-08-24	9	8.6	9.98606271777003
## 2015-08-25	9	8.6	9.98606271777003
## 2015-08-27	9	8.6	9.98606271777003
## 2015-09-01	9.002	7.6	9.98606271777003
## 2015-09-15	-3.22657456308662e-14	0	0.0725581395348837
## 2015-09-16	-3.23456816886392e-14	0	0.0725581395348837
## 2015-09-18	-3.23456816886392e-14	0	0.0725581395348837
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## 2015-10-02	11	11	9.98606271777003
## 2015-10-19	-3.23510107591574e-14	0	0.0725581395348837
## 2015-10-22	-3.25677262935642e-14	0	0.0725581395348837
## 2015-10-23	-3.24789084515942e-14	0	0.0725581395348837
## 2015-11-04	18	18	19.9025974025974
## 2015-11-05	18	18	19.9025974025974
## 2015-11-09	18	18	19.9025974025974
## 2015-11-11	18	18	19.9025974025974
## 2015-11-13	18	18	19.9025974025974
## 2015-11-17	18	18	19.9025974025974
## 2015-11-18	18	18	19.9025974025974
## 2015-11-19	18	18	19.9025974025974
## 2015-11-30	17.812	16.6	19.9025974025974
## 2015-12-01	-3.31894511873543e-14	0	0.0725581395348837
## 2015-12-02	-3.31912275441937e-14	0	0.0725581395348837
## 2015-12-07	-3.31912275441937e-14	0	0.0725581395348837
## 2015-12-08	-3.31752403326391e-14	0	0.0725581395348837
## 2015-12-11	7	7	7.30805687203791
## 2015-12-14	7	7	7.30805687203791

## 2015-12-29	-3.31521476937269e-14	0	0.0725581395348837
## 2016-01-06	9	9	9.98606271777003
## 2016-01-07	9	9	9.98606271777003
## 2016-01-14	6.986	6.6	7.30805687203791
## 2016-01-19	7	7	7.30805687203791
## 2016-01-21	7	7	7.30805687203791
## 2016-01-26	7	5.6	7.30805687203791
## 2016-02-08	11	11	9.98606271777003
## 2016-02-09	11	11	9.98606271777003
## 2016-02-11	11.046	9.6	9.98606271777003
## 2016-02-18	-3.37241345960138e-14	0	0.0725581395348837
## 2016-02-22	-3.36637384634741e-14	0	0.0725581395348837
## 2016-02-23	-3.37436745212472e-14	0	0.0725581395348837
## 2016-02-29	-3.36637384634741e-14	0	0.0725581395348837
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## 2016-03-08	1	2.2	0.0725581395348837
## 2016-03-11	-3.37863070853928e-14	0	0.0725581395348837
## 2016-03-16	-3.3809399724305e-14	0	0.0725581395348837
## 2016-03-22	14	11.6	14.6610878661088
## 2016-03-24	14	14	14.6610878661088
## 2016-03-31	14	14	14.6610878661088
## 2016-04-13	-3.42126327268488e-14	0	0.0725581395348837
## 2016-04-20	-3.39586136988146e-14	0	0.0725581395348837
## 2016-04-26	21	21	19.9025974025974
## 2016-04-27	21	21	19.9025974025974
## 2016-05-11	21	21	19.9025974025974
## 2016-05-16	21	21	19.9025974025974
## 2016-05-17	21	21	19.9025974025974
## 2016-05-18	21	21	19.9025974025974
## 2016-05-19	21	21	19.9025974025974
## 2016-05-26	7	7	7.30805687203791
## 2016-05-27	7	7	7.30805687203791
## 2016-06-01	7	7	7.30805687203791
## 2016-06-03	7	7	7.30805687203791
## 2016-06-08	-3.4040326113427e-14	0	0.0725581395348837
## 2016-06-16	15	15	14.6610878661088
## 2016-06-23	15	15	14.6610878661088
## 2016-06-28	15	15	14.6610878661088
## 2016-07-07	-3.36015659740951e-14	0	0.0725581395348837
## 2016-07-14	-3.36459748950801e-14	0	0.0725581395348837
## 2016-07-15	-3.36299876835255e-14	0	0.0725581395348837
## 2016-07-19	-3.34541283564249e-14	0	0.0725581395348837
## 2016-07-20	-3.35571570531101e-14	0	0.0725581395348837
## 2016-07-21	-3.36157768288103e-14	0	0.0725581395348837
## 2016-07-29	1	2	0.0725581395348837
## 2016-08-03	7	7	7.30805687203791
## 2016-08-08	7	7	7.30805687203791
## 2016-08-11	-3.3836045076896e-14	0	0.0725581395348837
## 2016-08-17	-3.38467032179324e-14	0	0.0725581395348837
## 2016-08-30	-3.20952153742837e-14	0	0.0725581395348837

## 2016-09-07	-3.41664474490244e-14	0	0.0725581395348837
## 2016-09-13	9.014	7.2	9.98606271777003
## 2016-09-21	9	9	9.98606271777003
## 2016-09-26	9.002	8	9.98606271777003
## 2016-09-27	-3.37863070853928e-14	0	0.0725581395348837
## 2016-09-30	-3.37845307285534e-14	0	0.0725581395348837
## 2016-10-10	-3.45750095220865e-14	0	0.0725581395348837
## 2016-10-11	1	2.8	0.0725581395348837
## 2016-10-12	1	3.2	0.0725581395348837
## 2016-10-13	-3.43884920539495e-14	0	0.0725581395348837
## 2016-10-18	-3.4342306776125e-14	0	0.0725581395348837
## 2016-10-21	-3.43138850666946e-14	0	0.0725581395348837
## 2016-10-25	-3.43138850666946e-14	0	0.0725581395348837
## 2016-10-28	1	1.6	0.0725581395348837
## 2016-10-31	3	2	2.4468085106383
## 2016-11-01	3	2.6	2.4468085106383
## 2016-11-04	-3.40474315407846e-14	0	0.0725581395348837
## 2016-11-07	-3.39230865620266e-14	0	0.0725581395348837
## 2016-11-17	-3.34150485059581e-14	0	0.0725581395348837
## 2016-11-18	-3.32462946062151e-14	0	0.0725581395348837
## 2016-11-22	-3.33244543071487e-14	0	0.0725581395348837
## 2016-11-28	-3.31876748305149e-14	0	0.0725581395348837
## 2016-11-30	1.046	2.6	0.0725581395348837
## 2016-12-06	1.996	2.6	2.4468085106383
## 2016-12-13	-3.31876748305149e-14	0	0.0725581395348837
## 2016-12-16	1	1.8	0.0725581395348837
## 2016-12-22	-3.31237259842965e-14	0	0.0725581395348837
## 2016-12-27	-3.31237259842965e-14	0	0.0725581395348837
## 2017-01-17	-3.31876748305149e-14	0	0.0725581395348837
## 2017-01-18	-3.31876748305149e-14	0	0.0725581395348837
## 2017-01-24	3	1.8	2.4468085106383
## 2017-01-26	8.002	9.2	7.30805687203791
## 2017-01-27	8	7.2	7.30805687203791
## 2017-01-31	8	7.6	7.30805687203791
## 2017-02-03	8	7.6	7.30805687203791
## 2017-02-06	8	7.6	7.30805687203791
## 2017-02-09	-3.33866267965277e-14	0	0.0725581395348837
## 2017-02-13	-3.33866267965277e-14	0	0.0725581395348837
## 2017-02-17	-3.33866267965277e-14	0	0.0725581395348837
## 2017-02-27	5	4.6	5.08849557522124
## 2017-03-03	13	10	14.6610878661088
## 2017-03-08	13	13	14.6610878661088
## 2017-03-09	13	13	14.6610878661088
## 2017-03-10	13	13	14.6610878661088
## 2017-03-14	13	13	14.6610878661088
## 2017-03-17	13	13	14.6610878661088
## 2017-03-21	13	13	14.6610878661088
## 2017-03-22	13	11.4	14.6610878661088
## 2017-03-29	-3.33795213691701e-14	0	0.0725581395348837
## 2017-04-04	5	5.6	5.08849557522124

## 2017-04-05	5	5.6	5.08849557522124
## 2017-04-10	5.02	6.4	5.08849557522124
## 2017-04-12	-3.38555850021294e-14	0	0.0725581395348837
## 2017-04-25	-3.37774253011958e-14	0	0.0725581395348837
## 2017-05-02	6	5.8	5.08849557522124
## 2017-05-08	-3.30384608560053e-14	0	0.0725581395348837
## 2017-05-19	4	4.6	5.08849557522124
## 2017-05-23	-3.34328120743521e-14	0	0.0725581395348837
## 2017-05-24	-3.34328120743521e-14	0	0.0725581395348837
## 2017-05-31	-3.33546523734185e-14	0	0.0725581395348837
## 2017-06-01	-3.33546523734185e-14	0	0.0725581395348837
## 2017-06-02	-3.33546523734185e-14	0	0.0725581395348837
## 2017-06-06	-3.33546523734185e-14	0	0.0725581395348837
## 2017-06-09	-3.32196492536241e-14	0	0.0725581395348837
## 2017-06-19	12	12	9.98606271777003
## 2017-06-23	12	12	9.98606271777003
## 2017-06-27	12	12	9.98606271777003
## 2017-06-30	-3.36299876835255e-14	0	0.0725581395348837
## 2017-07-06	-3.28626015289046e-14	0	0.0725581395348837
## 2017-07-11	-3.32391891788575e-14	0	0.0725581395348837
## 2017-07-18	1	3.2	0.0725581395348837
## 2017-07-21	11	11	9.98606271777003
## 2017-08-07	18	12.2	19.9025974025974
## 2017-08-08	18	18	19.9025974025974
## 2017-08-10	18	18	19.9025974025974
## 2017-08-23	18	18	19.9025974025974
## 2017-08-28	18	18	19.9025974025974
## 2017-09-08	3.022	3.6	2.4468085106383
## 2017-09-26	-3.30331317854871e-14	0	0.0725581395348837
## 2017-09-27	-3.30331317854871e-14	0	0.0725581395348837
## 2017-10-02	-3.30331317854871e-14	0	0.0725581395348837
## 2017-10-04	-3.26050297871916e-14	0	0.0725581395348837
## 2017-10-11	-2.99209546028578e-14	0	0.0725581395348837
## 2017-10-12	-3.05284686419327e-14	0	0.0725581395348837
## 2017-10-17	-3.17594839316371e-14	0	0.0725581395348837
## 2017-10-19	20	20	19.9025974025974
## 2017-10-20	20	20	19.9025974025974
## 2017-10-24	20	20	19.9025974025974
## 2017-11-03	20	20	19.9025974025974
## 2017-11-07	20	20	19.9025974025974
## 2017-11-15	19.738	8.8	19.9025974025974
## 2017-11-27	-3.14965831194058e-14	0	0.0725581395348837
## 2017-12-07	-3.09494652128706e-14	0	0.0725581395348837
## 2017-12-08	-3.07451841763395e-14	0	0.0725581395348837
## 2017-12-15	-3.07451841763395e-14	0	0.0725581395348837
## 2017-12-19	-3.05107050735387e-14	0	0.0725581395348837
## 2017-12-21	-2.85922396869864e-14	0	0.0725581395348837
## 2018-01-02	1	0.666666666666667	0.0725581395348837
## 2018-01-16	-2.48210341169397e-14	0	0.0725581395348837
## 2018-01-18	-1.93267624126747e-14	0	0.0725581395348837

## 2018-01-25	15	15	14.6610878661088
## 2018-01-26	15	15	14.6610878661088
## 2018-01-29	15	15	14.6610878661088
## 2018-01-30	15	15	14.6610878661088
## 2018-01-31	15	15	14.6610878661088
## 2018-02-05	15	15	14.6610878661088
## 2018-02-12	15	15	14.6610878661088
## 2018-02-16	-3.24433813148062e-14	0	0.0725581395348837
## 2018-02-23	-3.07913694541639e-14	0	0.0725581395348837
## 2018-03-02	-3.10773629053074e-14	0	0.0725581395348837
## 2018-03-07	1	3	0.0725581395348837
## 2018-03-08	-2.77271539061985e-14	0	0.0725581395348837
## 2018-03-09	-2.60502730498047e-14	0	0.0725581395348837
## 2018-03-12	-2.5785595880734e-14	0	0.0725581395348837
## 2018-03-13	-2.58406629427554e-14	0	0.0725581395348837
## 2018-03-16	11	10.4	9.98606271777003
## 2018-03-27	11	11	9.98606271777003
## 2018-04-04	0.005999999999997034	0	0.0725581395348837
## 2018-04-09	10	10.6	9.98606271777003
## 2018-04-10	10	10	9.98606271777003
## 2018-05-08	3	3	2.4468085106383
## 2018-05-10	3	5	2.4468085106383
## 2018-05-11	-3.27613491890588e-14	0	0.0725581395348837
## 2018-05-14	-3.27613491890588e-14	0	0.0725581395348837
## 2018-05-16	-3.2544633654652e-14	0	0.0725581395348837
## 2018-05-17	-3.26174642850674e-14	0	0.0725581395348837
## 2018-05-23	-3.2526870086258e-14	0	0.0725581395348837
## 2018-06-06	1	1.6	0.0725581395348837
## 2018-06-07	1	2	0.0725581395348837
## 2018-06-08	1	1.6	0.0725581395348837
## 2018-06-11	18	16.2	19.9025974025974
## 2018-06-12	18	18	19.9025974025974
## 2018-06-15	18	18	19.9025974025974
## 2018-06-18	18	18	19.9025974025974
## 2018-06-19	18	18	19.9025974025974
## 2018-06-22	18	18	19.9025974025974
## 2018-06-25	18	18	19.9025974025974
## 2018-06-26	18	18	19.9025974025974
## 2018-07-03	18	18	19.9025974025974
## 2018-07-06	18	15.6	19.9025974025974
## 2018-07-10	6.994	6.4	7.30805687203791
## 2018-07-12	7	6.6	7.30805687203791
## 2018-07-13	7	6.6	7.30805687203791
## 2018-07-16	7	6.6	7.30805687203791
## 2018-07-24	-3.23687743275514e-14	0	0.0725581395348837
## 2018-07-27	-3.27826654711316e-14	0	0.0725581395348837
## 2018-07-30	-3.28093108237226e-14	0	0.0725581395348837
## 2018-08-07	10	10	9.98606271777003
## 2018-08-16	10	10	9.98606271777003
## 2018-08-21	-3.266897863341e-14	0	0.0725581395348837



## 2018-08-24	-3.26494387081766e-14	0	0.0725581395348837
## 2018-08-30	-3.24344995306092e-14	0	0.0725581395348837
## 2018-09-06	6	6.4	5.08849557522124
## 2018-09-12	6	6.4	5.08849557522124
## 2018-09-14	-3.1350921858575e-14	0	0.0725581395348837
## 2018-09-20	-3.08482128730247e-14	0	0.0725581395348837
## 2018-09-21	-3.05746539197571e-14	0	0.0725581395348837
## 2018-10-02	15	15	14.6610878661088
## 2018-10-04	15	15	14.6610878661088
## 2018-10-08	15	15	14.6610878661088
## 2018-10-18	15	12.8	14.6610878661088
## 2018-10-19	-3.24593685263608e-14	0	0.0725581395348837
## 2018-10-23	3	1.4	2.4468085106383
## 2018-10-24	3	3.4	2.4468085106383
## 2018-10-26	3.034	4.8	2.4468085106383
## 2018-10-31	-3.20383719554229e-14	0	0.0725581395348837
## 2018-11-02	-3.121769509562e-14	0	0.0725581395348837
## 2018-11-07	-3.01483282783011e-14	0	0.0725581395348837
## 2018-11-12	-3.00701685773674e-14	0	0.0725581395348837
## 2018-11-14	-2.98268076903696e-14	0	0.0725581395348837
## 2018-11-26	1	1.8	0.0725581395348837
## 2018-12-07	15	15	14.6610878661088
## 2018-12-12	15	15	14.6610878661088
## 2018-12-14	15	15	14.6610878661088
## 2018-12-18	15	15	14.6610878661088
## 2018-12-24	15	15	14.6610878661088
## 2019-01-03	1	1.6	0.0725581395348837
## 2019-01-10	2.014	2.2	2.4468085106383
## 2019-01-14	-3.0924596217119e-14	0	0.0725581395348837
## 2019-01-15	1	1.4	0.0725581395348837
## 2019-01-23	1	4.2	0.0725581395348837
## 2019-01-28	-2.9446667326738e-14	0	0.0725581395348837
## 2019-01-29	-3.03970182358171e-14	0	0.0725581395348837
## 2019-01-30	-3.04041236631747e-14	0	0.0725581395348837
## 2019-02-01	-3.07025516121939e-14	0	0.0725581395348837
## 2019-02-05	-2.85496071228408e-14	0	0.0725581395348837
## 2019-02-15	9	9	9.98606271777003
## 2019-02-27	-3.08162384499155e-14	0	0.0725581395348837
## 2019-03-01	14	14	14.6610878661088
## 2019-03-08	14	14	14.6610878661088
## 2019-03-19	14	14	14.6610878661088
## 2019-03-21	5	2.8	5.08849557522124
## 2019-03-22	5	5	5.08849557522124
## 2019-03-29	-3.30011573623779e-14	0	0.0725581395348837
## 2019-04-02	-3.31379368390117e-14	0	0.0725581395348837
## 2019-04-18	6.994	6	7.30805687203791
## 2019-04-23	7	7.8	7.30805687203791
## 2019-04-26	7	6.2	7.30805687203791
## 2019-04-29	7	7.8	7.30805687203791
## 2019-04-30	7	4.5	7.30805687203791

## 2019-05-03	-3.14788195510118e-14	0	0.0725581395348837
## 2019-05-07	2	1.4	2.4468085106383
## 2019-05-09	2	2	2.4468085106383
## 2019-05-16	16	16	14.6610878661088
## 2019-05-20	16	16	14.6610878661088
## 2019-05-29	16	16	14.6610878661088
## 2019-05-31	16	16	14.6610878661088
## 2019-06-03	16	16	14.6610878661088
## 2019-06-07	-3.30153682170931e-14	0	0.0725581395348837
## 2019-06-28	5.008	6	5.08849557522124
## 2019-07-01	-3.20703463785321e-14	0	0.0725581395348837
## 2019-07-10	-3.19371196155771e-14	0	0.0725581395348837
## 2019-07-12	-3.16493498075943e-14	0	0.0725581395348837
## 2019-07-16	-3.13491455017356e-14	0	0.0725581395348837
## 2019-07-19	2	3.8	2.4468085106383
## 2019-07-30	25	25	25
## 2019-07-31	25	25	25
## 2019-08-01	25	25	25
## 2019-08-05	25	25	25
## 2019-08-07	25	25	25
## 2019-08-09	25	25	25
## 2019-08-14	25	25	25
## 2019-08-16	25	25	25
## 2019-08-19	25	25	25
## 2019-08-20	25	25	25
## 2019-08-22	25	25	25
## 2019-08-27	25	25	25
## 2019-08-30	2	2	2.4468085106383
## 2019-09-04	-3.05284686419327e-14	0	0.0725581395348837
## 2019-09-09	-3.16138226708063e-14	0	0.0725581395348837
## 2019-09-10	-3.17808002137099e-14	0	0.0725581395348837
## 2019-09-13	-3.16227044550033e-14	0	0.0725581395348837
## 2019-09-16	-3.06243919112603e-14	0	0.0725581395348837
## 2019-09-17	-3.15427683972303e-14	0	0.0725581395348837
## 2019-09-18	14	12.4	14.6610878661088
## 2019-09-23	14	14	14.6610878661088
## 2019-09-24	14	14	14.6610878661088
## 2019-09-25	14	14	14.6610878661088
## 2019-10-02	14	14	14.6610878661088
## 2019-10-08	14	13.4	14.6610878661088
## 2019-10-15	-3.06350500522967e-14	0	0.0725581395348837
## 2019-10-18	-3.02353697634317e-14	0	0.0725581395348837
## 2019-10-22	-3.01820790582497e-14	0	0.0725581395348837
## 2019-10-24	-3.05959702018299e-14	0	0.0725581395348837
## 2019-10-29	-3.02424751907893e-14	0	0.0725581395348837
## 2019-11-01	-2.91233703819671e-14	0	0.0725581395348837
## 2019-11-14	8	8	7.30805687203791
## 2019-11-19	8	8	7.30805687203791
## 2019-11-22	-2.9482194463526e-14	0	0.0725581395348837
## 2019-11-26	-2.95603541644596e-14	0	0.0725581395348837

## 2019-11-29	9	9	9.98606271777003
## 2019-12-02	9	9	9.98606271777003
## 2019-12-06	9	9	9.98606271777003
## 2019-12-11	8.98	8	9.98606271777003
## 2019-12-13	-2.88764567812905e-14	0	0.0725581395348837
## 2019-12-16	-2.90789614609821e-14	0	0.0725581395348837
## 2019-12-18	-2.89297474864725e-14	0	0.0725581395348837
## 2019-12-20	-2.95905522307294e-14	0	0.0725581395348837
## 2019-12-27	-2.75584000064555e-14	0	0.0725581395348837
## 2020-01-02	8	8	7.30805687203791
## 2020-01-03	8	8	7.30805687203791
## 2020-01-06	8	8	7.30805687203791
## 2020-01-09	8	8	7.30805687203791
## 2020-01-14	8	4.6	7.30805687203791
## 2020-01-17	2	1.8	2.4468085106383
## 2020-01-31	2	2	2.4468085106383
## 2020-02-03	2	4.2	2.4468085106383
## 2020-02-11	-2.23714380354068e-14	0	0.0725581395348837
## 2020-02-12	-2.03019823175055e-14	0	0.0725581395348837
## 2020-02-19	14	14	14.6610878661088
## 2020-02-20	14	14	14.6610878661088
## 2020-02-21	14	14	14.6610878661088
## 2020-02-28	14	14	14.6610878661088
## 2020-03-06	14	14	14.6610878661088
## results	0.31	0.77	0.03
##	GLM IncreasingDaysThisCycle		
## 2007-01-16	-2.69576939109711e-13	0	
## 2007-01-17	0.999999999999753	1	
## 2007-01-22	7.99999999999977	8	
## 2007-01-23	7.99999999999978	8	
## 2007-01-24	7.99999999999978	8	
## 2007-01-26	7.99999999999978	8	
## 2007-01-29	7.99999999999978	8	
## 2007-01-31	7.99999999999977	8	
## 2007-02-08	-2.52035415320633e-13	0	
## 2007-02-09	-2.48926790851683e-13	0	
## 2007-02-16	24.9999999999998	25	
## 2007-02-27	24.9999999999998	25	
## 2007-03-02	24.9999999999998	25	
## 2007-03-07	24.9999999999998	25	
## 2007-03-12	24.9999999999998	25	
## 2007-03-14	24.9999999999998	25	
## 2007-03-19	24.9999999999998	25	
## 2007-03-21	24.9999999999998	25	
## 2007-03-22	-2.44041809543332e-13	0	
## 2007-03-29	3.99999999999979	4	
## 2007-04-02	3.99999999999977	4	
## 2007-04-04	0.999999999999768	1	
## 2007-04-05	-2.44263854148257e-13	0	
## 2007-04-09	-2.45374077172882e-13	0	

## 2007-04-13	6.9999999999979	7
## 2007-04-16	6.9999999999979	7
## 2007-04-26	20.999999999998	21
## 2007-04-27	20.999999999998	21
## 2007-05-03	20.999999999998	21
## 2007-05-11	20.999999999998	21
## 2007-05-18	20.999999999998	21
## 2007-05-29	-2.18062590767104e-13	0
## 2007-06-04	11.999999999998	12
## 2007-06-05	11.999999999998	12
## 2007-06-12	11.999999999998	12
## 2007-06-13	11.999999999998	12
## 2007-06-15	11.999999999998	12
## 2007-06-18	11.999999999998	12
## 2007-06-20	-1.88530658312074e-13	0
## 2007-06-26	-1.83423632398799e-13	0
## 2007-06-29	-1.86754301472674e-13	0
## 2007-07-03	-1.9186132738595e-13	0
## 2007-07-11	-1.93859728830275e-13	0
## 2007-07-13	-1.914172381761e-13	0
## 2007-07-17	0.99999999999821	1
## 2007-07-18	0.99999999999788	1
## 2007-07-20	1.999999999998	2
## 2007-07-23	1.9999999999979	2
## 2007-08-03	19.999999999998	20
## 2007-08-08	19.999999999998	20
## 2007-08-14	19.999999999998	20
## 2007-08-16	19.999999999998	20
## 2007-08-17	19.999999999998	20
## 2007-08-20	19.999999999998	20
## 2007-08-27	-2.01187200792801e-13	0
## 2007-09-05	-2.02519468422351e-13	0
## 2007-09-13	4.9999999999981	5
## 2007-09-20	8.9999999999982	9
## 2007-09-21	8.9999999999982	9
## 2007-09-24	8.9999999999982	9
## 2007-10-01	8.9999999999982	9
## 2007-10-02	8.9999999999981	9
## 2007-10-04	-2.08958761965177e-13	0
## 2007-10-10	-2.10068984989802e-13	0
## 2007-10-22	6.9999999999982	7
## 2007-10-24	2.999999999998	3
## 2007-10-30	-2.17840546162179e-13	0
## 2007-11-01	9.9999999999982	10
## 2007-11-06	9.9999999999983	10
## 2007-11-13	9.9999999999983	10
## 2007-11-19	8.9999999999983	9
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## 2007-12-04	13.9999999999998	14
## 2007-12-06	13.9999999999998	14
## 2007-12-10	13.9999999999998	14
## 2007-12-14	13.9999999999998	14
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## 2008-03-19	24.9999999999999	25
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## 2008-05-29	9.99999999999985	10
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## 2008-06-13	19.9999999999999	20
## 2008-06-16	19.9999999999999	20
## 2008-06-20	19.9999999999999	20
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## 2019-04-29	6.99999999999985	7
## 2019-04-30	6.99999999999983	7
## 2019-05-03	-1.81647275559398e-13	0
## 2019-05-07	1.99999999999984	2
## 2019-05-09	1.99999999999983	2
## 2019-05-16	15.9999999999999	16
## 2019-05-20	15.9999999999999	16
## 2019-05-29	15.9999999999999	16

## 2019-05-31	15.999999999999999	16
## 2019-06-03	15.999999999999999	16
## 2019-06-07	-1.60330993486595e-13	0
## 2019-06-28	4.999999999999986	5
## 2019-07-01	-1.60553038091521e-13	0
## 2019-07-10	-1.58110547437345e-13	0
## 2019-07-12	-1.58998725857045e-13	0
## 2019-07-16	-1.5922077046197e-13	0
## 2019-07-19	1.999999999999986	2
## 2019-07-30	24.999999999999999	25
## 2019-07-31	24.999999999999999	25
## 2019-08-01	24.999999999999999	25
## 2019-08-05	24.999999999999999	25
## 2019-08-07	24.999999999999999	25
## 2019-08-09	24.999999999999999	25
## 2019-08-14	24.999999999999999	25
## 2019-08-16	24.999999999999999	25
## 2019-08-19	24.999999999999999	25
## 2019-08-20	24.999999999999999	25
## 2019-08-22	24.999999999999999	25
## 2019-08-27	24.999999999999999	25
## 2019-08-30	1.999999999999985	2
## 2019-09-04	-1.58554636647195e-13	0
## 2019-09-09	-1.60330993486595e-13	0
## 2019-09-10	-1.61441216511221e-13	0
## 2019-09-13	-1.62107350325996e-13	0
## 2019-09-16	-1.56334190597945e-13	0
## 2019-09-17	-1.5788850283242e-13	0
## 2019-09-18	13.999999999999999	14
## 2019-09-23	13.999999999999999	14
## 2019-09-24	13.999999999999999	14
## 2019-09-25	13.999999999999999	14
## 2019-10-02	13.999999999999999	14
## 2019-10-08	13.999999999999999	14
## 2019-10-15	-1.45009915746768e-13	0
## 2019-10-18	-1.43455603512293e-13	0
## 2019-10-22	-1.42567425092593e-13	0
## 2019-10-24	-1.44343781931993e-13	0
## 2019-10-29	-1.46564227981244e-13	0
## 2019-11-01	-1.44343781931993e-13	0
## 2019-11-14	7.999999999999986	8
## 2019-11-19	7.999999999999986	8
## 2019-11-22	-1.70767089918072e-13	0
## 2019-11-26	-1.70767089918072e-13	0
## 2019-11-29	8.999999999999986	9
## 2019-12-02	8.999999999999986	9
## 2019-12-06	8.999999999999986	9
## 2019-12-11	8.999999999999987	9
## 2019-12-13	-1.53669655338845e-13	0
## 2019-12-16	-1.5433578915362e-13	0

```
## 2019-12-18 -1.53669655338845e-13 0
## 2019-12-20 -1.55001922968395e-13 0
## 2019-12-27 -1.51893298499444e-13 0
## 2020-01-02 7.99999999999986 8
## 2020-01-03 7.99999999999986 8
## 2020-01-06 7.99999999999986 8
## 2020-01-09 7.99999999999986 8
## 2020-01-14 7.99999999999985 8
## 2020-01-17 1.99999999999984 2
## 2020-01-31 1.99999999999986 2
## 2020-02-03 1.99999999999986 2
## 2020-02-11 -1.60553038091521e-13 0
## 2020-02-12 -1.61441216511221e-13 0
## 2020-02-19 13.9999999999999 14
## 2020-02-20 13.9999999999999 14
## 2020-02-21 13.9999999999999 14
## 2020-02-28 13.9999999999999 14
## 2020-03-06 13.9999999999999 14
## results 0 100
```

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

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

```
sAAL$row <- row.names(sAAL)
testingSet$row <- row.names(testingSet)
Results_round$row <- row.names(Results_round)

AAL <- merge(testingSet,Results_round, by.x='row', by.y='row')
AAL

##          row stockDayValue todayGrtrThanLag7 cumulativeSumTodayGrtrThanL
ag7
## 1  2007-01-16          61.96              0
0
## 2  2007-01-17          58.65              0
0
## 3  2007-01-22          57.03              1
2
## 4  2007-01-23          53.27              1
3
## 5  2007-01-24          53.35              1
4
## 6  2007-01-26          52.13              1
6
## 7  2007-01-29          54.43              1
```

7			
## 8	2007-01-31	55.98	1
9			
## 9	2007-02-08	59.31	0
9			
## 10	2007-02-09	58.14	0
9			
## 11	2007-02-16	56.70	1
12			
## 12	2007-02-27	51.79	1
18			
## 13	2007-03-02	50.65	1
21			
## 14	2007-03-07	49.35	1
24			
## 15	2007-03-12	49.45	1
27			
## 16	2007-03-14	45.78	1
29			
## 17	2007-03-19	47.86	1
32			
## 18	2007-03-21	49.41	1
34			
## 19	2007-03-22	47.90	0
34			
## 20	2007-03-29	45.53	1
36			
## 21	2007-04-02	45.05	1
38			
## 22	2007-04-04	46.49	1
39			
## 23	2007-04-05	47.05	0
39			
## 24	2007-04-09	47.81	0
39			
## 25	2007-04-13	45.23	1
42			
## 26	2007-04-16	45.34	1
43			
## 27	2007-04-26	39.33	1
50			
## 28	2007-04-27	37.18	1
51			
## 29	2007-05-03	35.55	1
55			
## 30	2007-05-11	33.36	1
61			
## 31	2007-05-18	33.48	1
66			
## 32	2007-05-29	35.60	0



67			
## 33	2007-06-04	33.95	1
68			
## 34	2007-06-05	33.53	1
69			
## 35	2007-06-12	29.19	1
74			
## 36	2007-06-13	28.72	1
75			
## 37	2007-06-15	27.61	1
77			
## 38	2007-06-18	27.29	1
78			
## 39	2007-06-20	29.71	0
79			
## 40	2007-06-26	28.26	0
79			
## 41	2007-06-29	30.27	0
79			
## 42	2007-07-03	32.86	0
79			
## 43	2007-07-11	34.73	0
79			
## 44	2007-07-13	34.10	0
79			
## 45	2007-07-17	35.30	0
79			
## 46	2007-07-18	34.91	1
80			
## 47	2007-07-20	34.71	1
81			
## 48	2007-07-23	34.50	1
82			
## 49	2007-08-03	31.14	1
90			
## 50	2007-08-08	31.39	1
93			
## 51	2007-08-14	28.72	1
97			
## 52	2007-08-16	26.91	1
99			
## 53	2007-08-17	26.31	1
100			
## 54	2007-08-20	26.66	1
101			
## 55	2007-08-27	29.78	0
102			
## 56	2007-09-05	31.57	0
102			
## 57	2007-09-13	29.90	1

105			
## 58	2007-09-20	29.76	1
109			
## 59	2007-09-21	29.39	1
110			
## 60	2007-09-24	25.98	1
111			
## 61	2007-10-01	27.46	1
116			
## 62	2007-10-02	28.65	1
117			
## 63	2007-10-04	29.51	0
117			
## 64	2007-10-10	30.80	0
117			
## 65	2007-10-22	26.50	1
123			
## 66	2007-10-24	28.74	0
124			
## 67	2007-10-30	28.47	0
127			
## 68	2007-11-01	26.84	1
128			
## 69	2007-11-06	23.08	1
131			
## 70	2007-11-13	23.41	1
136			
## 71	2007-11-19	20.61	1
139			
## 72	2007-11-21	19.94	1
141			
## 73	2007-11-26	19.55	1
143			
## 74	2007-11-28	20.97	1
145			
## 75	2007-11-30	20.77	0
146			
## 76	2007-12-03	19.93	1
147			
## 77	2007-12-04	19.62	1
148			
## 78	2007-12-06	17.54	1
150			
## 79	2007-12-10	18.76	1
152			
## 80	2007-12-14	15.66	1
156			
## 81	2007-12-17	14.76	1
157			
## 82	2008-01-03	12.72	1

164			
## 83	2008-01-07	12.23	1
166			
## 84	2008-01-16	12.54	0
171			
## 85	2008-01-23	13.14	0
172			
## 86	2008-01-24	12.66	0
172			
## 87	2008-01-28	13.33	0
173			
## 88	2008-01-31	13.84	0
173			
## 89	2008-02-07	15.40	0
173			
## 90	2008-02-11	15.11	0
173			
## 91	2008-02-15	14.41	1
176			
## 92	2008-02-28	13.15	1
184			
## 93	2008-03-17	7.45	1
196			
## 94	2008-03-19	8.43	1
198			
## 95	2008-03-20	8.73	1
199			
## 96	2008-03-31	8.91	0
199			
## 97	2008-04-03	9.25	0
199			
## 98	2008-04-07	9.62	0
199			
## 99	2008-04-08	9.87	0
199			
## 100	2008-04-10	9.16	1
201			
## 101	2008-04-22	6.84	1
209			
## 102	2008-04-24	7.06	1
211			
## 103	2008-04-28	8.62	0
212			
## 104	2008-05-06	8.03	0
212			
## 105	2008-05-14	7.25	1
218			
## 106	2008-05-19	7.31	0
219			
## 107	2008-05-20	6.87	1

220		
## 108	2008-05-29	4.32
226		1
## 109	2008-06-10	3.78
232		1
## 110	2008-06-13	2.86
235		1
## 111	2008-06-16	3.11
236		1
## 112	2008-06-20	3.15
240		1
## 113	2008-06-23	2.54
241		1
## 114	2008-06-25	2.58
243		1
## 115	2008-06-27	2.45
245		0
## 116	2008-07-08	2.70
250		0
## 117	2008-07-09	2.61
250		1
## 118	2008-07-10	2.42
251		1
## 119	2008-07-11	2.18
252		0
## 120	2008-07-29	4.85
256		0
## 121	2008-08-04	5.68
256		0
## 122	2008-08-05	6.70
256		0
## 123	2008-08-06	6.66
256		0
## 124	2008-08-08	7.96
256		0
## 125	2008-08-14	8.86
256		0
## 126	2008-08-18	8.99
256		0
## 127	2008-09-02	8.82
263		0
## 128	2008-09-03	8.54
263		0
## 129	2008-09-05	7.91
264		0
## 130	2008-09-08	7.68
264		1
## 131	2008-09-09	7.13
265		1
## 132	2008-09-10	6.67

266		
## 133	2008-09-11	7.52
267		1
## 134	2008-09-12	7.88
268		1
## 135	2008-09-16	9.10
268		0
## 136	2008-09-18	7.95
268		0
## 137	2008-09-22	6.86
269		1
## 138	2008-09-25	6.22
272		1
## 139	2008-10-06	6.18
277		1
## 140	2008-10-13	5.68
282		1
## 141	2008-10-14	5.54
283		1
## 142	2008-10-17	7.38
284		0
## 143	2008-10-21	7.83
284		0
## 144	2008-10-24	7.97
284		0
## 145	2008-10-28	8.56
284		0
## 146	2008-10-30	9.33
284		0
## 147	2008-11-07	7.87
286		1
## 148	2008-11-18	6.08
293		1
## 149	2008-11-20	4.41
295		1
## 150	2008-11-21	4.48
296		1
## 151	2008-11-25	5.86
297		0
## 152	2008-12-10	7.30
299		0
## 153	2008-12-15	6.35
300		1
## 154	2008-12-23	7.24
302		0
## 155	2008-12-24	7.65
302		0
## 156	2008-12-30	7.53
302		0
## 157	2008-12-31	7.73
		0

302		
## 158	2009-01-02	8.39
302		0
## 159	2009-01-06	9.06
302		0
## 160	2009-01-13	8.27
303		1
## 161	2009-01-15	7.55
305		1
## 162	2009-01-21	7.54
308		1
## 163	2009-01-22	7.65
309		1
## 164	2009-02-02	5.72
315		1
## 165	2009-02-03	5.77
316		1
## 166	2009-02-11	4.58
322		1
## 167	2009-02-17	4.42
325		1
## 168	2009-02-19	3.60
327		1
## 169	2009-02-20	3.12
328		1
## 170	2009-02-25	3.30
331		1
## 171	2009-02-26	3.25
332		1
## 172	2009-03-04	2.37
336		1
## 173	2009-03-09	2.01
339		0
## 174	2009-03-12	2.80
340		0
## 175	2009-03-18	3.22
340		1
## 176	2009-03-20	2.36
341		1
## 177	2009-03-24	2.60
343		1
## 178	2009-03-26	2.80
345		0
## 179	2009-03-31	2.53
347		1
## 180	2009-04-01	2.60
348		0
## 181	2009-04-07	3.04
348		0
## 182	2009-04-08	3.10

348		
## 183	2009-04-13	3.62
348		0
## 184	2009-04-14	3.37
348		0
## 185	2009-04-15	3.70
348		0
## 186	2009-04-16	3.81
348		0
## 187	2009-04-17	3.97
348		0
## 188	2009-04-24	4.84
348		0
## 189	2009-04-28	3.84
349		1
## 190	2009-05-01	4.01
351		1
## 191	2009-05-06	5.00
352		0
## 192	2009-05-07	3.97
352		0
## 193	2009-05-08	3.69
353		1
## 194	2009-05-11	3.75
354		1
## 195	2009-05-14	3.16
357		1
## 196	2009-05-26	2.89
364		1
## 197	2009-05-28	2.56
366		1
## 198	2009-06-03	2.95
368		0
## 199	2009-06-05	2.91
369		0
## 200	2009-06-16	2.65
374		1
## 201	2009-06-19	2.57
377		1
## 202	2009-06-23	2.17
379		1
## 203	2009-06-30	2.43
384		1
## 204	2009-07-09	2.16
388		1
## 205	2009-07-10	2.06
389		1
## 206	2009-08-06	3.06
396		0
## 207	2009-08-12	3.04
		0

397		
## 208	2009-08-18	2.93
400		1
## 209	2009-08-24	3.19
401		0
## 210	2009-08-28	3.57
401		0
## 211	2009-09-02	3.13
403		1
## 212	2009-09-30	4.70
409		1
## 213	2009-10-01	4.26
410		1
## 214	2009-10-07	4.25
414		0
## 215	2009-10-14	4.48
416		0
## 216	2009-10-15	4.52
416		1
## 217	2009-10-26	3.37
422		1
## 218	2009-11-02	2.91
427		1
## 219	2009-11-03	2.93
428		1
## 220	2009-11-04	2.92
429		1
## 221	2009-11-05	2.95
430		0
## 222	2009-11-10	3.06
431		0
## 223	2009-11-11	3.23
431		0
## 224	2009-11-16	3.38
431		0
## 225	2009-11-25	3.53
433		0
## 226	2009-11-30	3.69
433		0
## 227	2009-12-01	3.69
433		0
## 228	2009-12-03	4.06
433		0
## 229	2009-12-08	4.50
433		0
## 230	2009-12-10	4.37
433		0
## 231	2009-12-11	4.83
433		0
## 232	2009-12-14	4.75



433		
## 233	2009-12-22	5.13
433		0
## 234	2009-12-28	5.02
433		0
## 235	2010-01-04	4.77
434		1
## 236	2010-01-06	5.09
435		1
## 237	2010-01-13	5.48
435		0
## 238	2010-01-14	5.59
435		0
## 239	2010-01-21	5.46
435		0
## 240	2010-01-22	5.24
435		0
## 241	2010-01-28	5.14
439		1
## 242	2010-02-02	5.96
440		0
## 243	2010-02-03	5.66
440		0
## 244	2010-02-11	6.32
440		0
## 245	2010-02-12	6.81
440		0
## 246	2010-02-16	6.88
440		0
## 247	2010-02-18	6.73
440		0
## 248	2010-02-19	6.93
440		0
## 249	2010-02-25	7.08
440		0
## 250	2010-03-02	7.68
440		0
## 251	2010-03-04	7.32
440		0
## 252	2010-03-11	7.84
440		0
## 253	2010-03-16	7.77
440		0
## 254	2010-03-30	7.22
448		0
## 255	2010-04-07	6.82
451		1
## 256	2010-04-08	7.55
451		0
## 257	2010-04-23	6.63
		1

456		
## 258	2010-04-28	7.32
458		0
## 259	2010-05-03	7.39
458		0
## 260	2010-05-04	6.86
458		0
## 261	2010-05-05	6.93
458		0
## 262	2010-05-06	6.39
458		0
## 263	2010-05-12	7.30
462		1
## 264	2010-05-17	7.18
462		0
## 265	2010-05-20	6.84
462		0
## 266	2010-06-04	8.59
464		0
## 267	2010-06-07	8.35
465		1
## 268	2010-06-09	8.53
467		1
## 269	2010-06-11	9.93
467		0
## 270	2010-06-16	10.57
467		0
## 271	2010-06-18	10.44
467		0
## 272	2010-06-25	9.16
471		1
## 273	2010-07-07	9.32
477		0
## 274	2010-07-19	8.62
479		1
## 275	2010-07-20	8.92
480		1
## 276	2010-07-23	10.35
480		0
## 277	2010-07-26	10.91
480		0
## 278	2010-08-02	10.64
480		0
## 279	2010-08-04	10.03
481		1
## 280	2010-08-16	9.21
489		1
## 281	2010-08-18	9.61
490		1
## 282	2010-08-20	9.10
		1

492		
## 283	2010-08-24	8.75
494		1
## 284	2010-08-25	8.78
495		1
## 285	2010-08-30	8.87
498		1
## 286	2010-08-31	9.04
499		1
## 287	2010-09-01	9.56
499		0
## 288	2010-09-07	9.54
499		0
## 289	2010-09-10	8.79
500		1
## 290	2010-09-13	8.60
501		1
## 291	2010-09-16	9.12
504		1
## 292	2010-10-08	9.07
508		0
## 293	2010-10-11	9.00
509		1
## 294	2010-10-18	10.12
509		0
## 295	2010-10-21	10.75
509		0
## 296	2010-10-25	11.58
509		0
## 297	2010-10-28	11.88
509		0
## 298	2010-10-29	11.79
509		0
## 299	2010-11-08	11.23
512		1
## 300	2010-11-09	10.99
513		1
## 301	2010-11-22	11.18
519		0
## 302	2010-11-24	11.74
519		0
## 303	2010-11-30	11.16
519		0
## 304	2010-12-02	11.11
520		1
## 305	2010-12-03	11.04
521		1
## 306	2010-12-08	10.97
524		1
## 307	2010-12-09	10.91
		1

525		
## 308	2010-12-15	10.14
529		1
## 309	2010-12-16	10.13
530		1
## 310	2011-01-06	11.24
539		0
## 311	2011-01-11	10.97
539		0
## 312	2011-01-12	10.88
539		0
## 313	2011-01-13	10.89
539		0
## 314	2011-01-14	10.79
540		1
## 315	2011-01-28	10.16
546		0
## 316	2011-02-03	9.59
549		1
## 317	2011-02-04	9.24
550		1
## 318	2011-02-10	9.85
554		1
## 319	2011-02-11	10.13
554		0
## 320	2011-02-22	9.17
556		1
## 321	2011-02-25	8.57
559		1
## 322	2011-02-28	8.61
560		1
## 323	2011-03-09	8.93
565		0
## 324	2011-03-16	8.55
565		0
## 325	2011-03-23	8.73
568		1
## 326	2011-03-24	8.86
569		1
## 327	2011-03-31	8.71
572		1
## 328	2011-04-04	8.74
573		1
## 329	2011-04-05	8.45
574		1
## 330	2011-04-11	8.24
578		1
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600		0
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		1

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636		1
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647		1
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650		0
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## 369	2011-10-28	5.94
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## 373	2011-11-22	4.05
671		1
## 374	2011-11-25	4.02
673		1
## 375	2011-11-30	4.72
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674		0
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674		0
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674		0
## 382	2011-12-20	5.94
		0

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## 386	2011-12-28	5.19
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## 720	2016-09-13	37.37	0	1
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## 721	2016-09-21	34.67	1	1
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## 722	2016-09-26	34.93	1	1
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## 723	2016-09-27	36.00	0	1
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## 724	2016-09-30	36.61	0	1
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## 725	2016-10-10	38.89	0	1
200				
## 726	2016-10-11	38.20	0	1
200				
## 727	2016-10-12	37.38	1	1
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## 728	2016-10-13	39.24	0	1
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## 729	2016-10-18	39.35	0	1
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## 730	2016-10-21	39.90	0	1
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## 731	2016-10-25	39.69	0	1
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## 732	2016-10-28	40.06	1	1

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## 733	2016-10-31	40.60	0	1
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## 734	2016-11-01	39.80	1	1
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## 735	2016-11-04	39.74	0	1
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## 736	2016-11-07	41.49	0	1
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## 737	2016-11-17	45.83	0	1
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## 738	2016-11-18	46.26	0	1
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## 739	2016-11-22	46.08	0	1
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## 740	2016-11-28	46.50	0	1
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## 741	2016-11-30	46.44	0	1
205				
## 742	2016-12-06	46.43	1	1
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## 743	2016-12-13	47.84	0	1
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## 744	2016-12-16	47.63	1	1
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## 745	2016-12-22	48.69	0	1
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## 746	2016-12-27	48.61	0	1
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## 747	2017-01-17	46.75	0	1
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## 748	2017-01-18	47.64	0	1
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## 749	2017-01-24	47.54	1	1
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## 750	2017-01-26	49.59	0	1
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## 751	2017-01-27	46.95	1	1
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## 752	2017-01-31	44.25	1	1
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## 753	2017-02-03	44.20	1	1
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## 754	2017-02-06	45.30	1	1
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## 755	2017-02-09	46.30	0	1
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## 756	2017-02-13	47.41	0	1
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## 757	2017-02-17	46.91	0	1

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## 758	2017-02-27	46.32	1	1
232				
## 759	2017-03-03	46.82	0	1
234				
## 760	2017-03-08	44.89	1	1
237				
## 761	2017-03-09	43.33	1	1
238				
## 762	2017-03-10	43.90	1	1
239				
## 763	2017-03-14	41.21	1	1
241				
## 764	2017-03-17	41.72	1	1
244				
## 765	2017-03-21	40.42	1	1
246				
## 766	2017-03-22	40.35	1	1
247				
## 767	2017-03-29	41.96	0	1
249				
## 768	2017-04-04	40.90	1	1
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## 769	2017-04-05	41.31	1	1
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## 770	2017-04-10	42.32	1	1
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## 771	2017-04-12	43.96	0	1
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## 772	2017-04-25	46.61	0	1
254				
## 773	2017-05-02	43.87	1	1
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## 774	2017-05-08	44.94	0	1
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## 775	2017-05-19	45.22	1	1
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## 776	2017-05-23	46.66	0	1
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## 777	2017-05-24	46.77	0	1
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## 778	2017-05-31	48.41	0	1
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## 780	2017-06-02	49.52	0	1
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## 781	2017-06-06	49.74	0	1
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## 782	2017-06-09	50.27	0	1

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## 783	2017-06-19	49.66	1	1
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## 784	2017-06-23	48.63	1	1
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## 785	2017-06-27	48.50	1	1
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## 786	2017-06-30	50.32	0	1
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## 787	2017-07-06	52.05	0	1
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## 788	2017-07-11	51.61	0	1
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## 789	2017-07-18	53.15	0	1
276				
## 790	2017-07-21	51.91	1	1
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## 791	2017-08-07	50.58	0	1
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## 792	2017-08-08	50.00	1	1
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## 793	2017-08-10	48.55	1	1
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## 794	2017-08-23	43.97	1	1
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## 795	2017-08-28	44.95	1	1
303				
## 796	2017-09-08	43.60	1	1
309				
## 797	2017-09-26	47.58	0	1
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## 798	2017-09-27	46.85	0	1
310				
## 799	2017-10-02	47.73	0	1
310				
## 800	2017-10-04	50.73	0	1
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## 801	2017-10-11	52.83	0	1
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## 802	2017-10-12	52.65	0	1
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## 803	2017-10-17	52.07	0	1
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311				
## 805	2017-10-20	51.93	1	1
312				
## 806	2017-10-24	51.95	1	1
314				
## 807	2017-11-03	47.45	1	1

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## 808	2017-11-07	46.46	1	1
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## 809	2017-11-15	47.19	1	1
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## 810	2017-11-27	48.42	0	1
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## 811	2017-12-07	50.88	0	1
330				
## 812	2017-12-08	51.02	0	1
330				
## 813	2017-12-15	51.06	0	1
330				
## 814	2017-12-19	51.44	0	1
330				
## 815	2017-12-21	52.79	0	1
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## 816	2018-01-02	52.99	0	1
330				
## 817	2018-01-16	57.98	0	1
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## 818	2018-01-18	58.34	0	1
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## 819	2018-01-25	53.05	1	1
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## 820	2018-01-26	53.07	1	1
337				
## 821	2018-01-29	52.68	1	1
338				
## 822	2018-01-30	52.59	1	1
339				
## 823	2018-01-31	54.32	1	1
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## 824	2018-02-05	49.76	1	1
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## 825	2018-02-12	50.09	1	1
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## 826	2018-02-16	51.58	0	1
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## 827	2018-02-23	53.39	0	1
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## 828	2018-03-02	53.18	0	1
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## 829	2018-03-07	54.11	1	1
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## 830	2018-03-08	54.79	0	1
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## 831	2018-03-09	56.07	0	1
350				
## 832	2018-03-12	56.50	0	1



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## 833	2018-03-13	56.23	0	1
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## 834	2018-03-16	55.40	0	1
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## 835	2018-03-27	50.90	1	1
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## 836	2018-04-04	52.04	0	1
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## 837	2018-04-09	49.82	1	1
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## 838	2018-04-10	47.46	1	1
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## 839	2018-05-08	43.00	1	1
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## 840	2018-05-10	42.04	1	1
383				
## 841	2018-05-11	42.60	0	1
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## 842	2018-05-14	42.46	0	1
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## 843	2018-05-16	44.06	0	1
383				
## 844	2018-05-17	43.63	0	1
383				
## 845	2018-05-23	42.80	0	1
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## 846	2018-06-06	44.19	1	1
387				
## 847	2018-06-07	43.84	0	1
387				
## 848	2018-06-08	43.11	1	1
388				
## 849	2018-06-11	44.16	0	1
388				
## 850	2018-06-12	43.41	1	1
389				
## 851	2018-06-15	42.77	1	1
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## 852	2018-06-18	42.44	1	1
393				
## 853	2018-06-19	41.51	1	1
394				
## 854	2018-06-22	41.35	1	1
397				
## 855	2018-06-25	39.68	1	1
398				
## 856	2018-06-26	39.09	1	1
399				
## 857	2018-07-03	37.75	1	1

404				
## 858	2018-07-06	38.09	1	1
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## 859	2018-07-10	39.12	0	1
406				
## 860	2018-07-12	36.33	1	1
408				
## 861	2018-07-13	37.12	1	1
409				
## 862	2018-07-16	37.28	1	1
410				
## 863	2018-07-24	37.45	0	1
413				
## 864	2018-07-27	39.69	0	1
413				
## 865	2018-07-30	38.97	0	1
413				
## 866	2018-08-07	38.26	1	1
415				
## 867	2018-08-16	38.16	1	1
422				
## 868	2018-08-21	40.33	0	1
423				
## 869	2018-08-24	38.82	0	1
423				
## 870	2018-08-30	40.40	0	1
423				
## 871	2018-09-06	38.48	1	1
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## 872	2018-09-12	39.26	1	1
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## 875	2018-09-21	43.60	0	1
429				
## 876	2018-10-02	38.50	1	1
432				
## 877	2018-10-04	37.92	1	1
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## 878	2018-10-08	35.90	1	1
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## 880	2018-10-19	32.04	0	1
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## 881	2018-10-23	32.38	0	1
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## 882	2018-10-24	30.34	1	1

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## 883	2018-10-26	32.46	1	1
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## 884	2018-10-31	35.08	0	1
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## 885	2018-11-02	36.33	0	1
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## 886	2018-11-07	36.97	0	1
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## 887	2018-11-12	36.86	0	1
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## 888	2018-11-14	38.11	0	1
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## 889	2018-11-26	38.10	1	1
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## 890	2018-12-07	33.57	1	1
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## 891	2018-12-12	34.35	1	1
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## 892	2018-12-14	32.41	1	1
460				
## 893	2018-12-18	33.54	1	1
462				
## 894	2018-12-24	29.72	1	1
466				
## 895	2019-01-03	30.06	1	1
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## 896	2019-01-10	32.04	1	1
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## 897	2019-01-14	31.71	0	1
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## 898	2019-01-15	32.10	0	1
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## 899	2019-01-23	31.65	1	1
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## 900	2019-01-28	36.57	0	1
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## 901	2019-01-29	36.29	0	1
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## 902	2019-01-30	36.34	0	1
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## 903	2019-02-01	36.11	0	1
474				
## 904	2019-02-05	36.93	0	1
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## 905	2019-02-15	35.05	1	1
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## 906	2019-02-27	35.69	0	1
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## 907	2019-03-01	34.64	1	1

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## 908	2019-03-08	31.91	1	1
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## 909	2019-03-19	31.59	1	1
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## 910	2019-03-21	31.45	0	1
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## 911	2019-03-22	30.57	1	1
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## 913	2019-04-02	32.99	0	1
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## 914	2019-04-18	34.37	0	1
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## 915	2019-04-23	33.97	1	1
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## 916	2019-04-26	33.06	1	1
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## 917	2019-04-29	33.77	1	1
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## 921	2019-05-09	33.95	1	1
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## 923	2019-05-20	30.96	1	1
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## 924	2019-05-29	28.41	1	1
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## 925	2019-05-31	27.23	1	1
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## 926	2019-06-03	27.20	1	1
531				
## 927	2019-06-07	30.92	0	1
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## 928	2019-06-28	32.61	1	1
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## 932	2019-07-16	34.22	0	1

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## 933	2019-07-19	33.08	0	1
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## 934	2019-07-30	30.71	1	1
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## 935	2019-07-31	30.51	1	1
544				
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## 937	2019-08-05	28.53	1	1
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## 938	2019-08-07	28.63	1	1
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## 939	2019-08-09	28.78	1	1
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## 940	2019-08-14	26.10	1	1
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## 941	2019-08-16	25.79	1	1
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## 942	2019-08-19	26.10	1	1
557				
## 943	2019-08-20	25.83	1	1
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## 944	2019-08-22	26.53	1	1
560				
## 945	2019-08-27	24.45	1	1
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## 946	2019-08-30	26.31	1	1
565				
## 947	2019-09-04	27.00	0	1
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## 948	2019-09-09	28.44	0	1
566				
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566				
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## 951	2019-09-16	27.77	0	1
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569				
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## 971	2019-12-06	27.73	1	1
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## 976	2019-12-20	29.04	0	1
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605				
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615				
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620				
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625				
##	nRepeatsTodayGrtrThanLag7	decrDaysThisCycle	nTimesDecrDayCountsOccurs	
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## 2	3	2	29	
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## 4	1	0	1374	
## 5	1	0	1374	
## 6	1	0	1374	
## 7	1	0	1374	
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## 23	4	3	19	
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## 64	9	8	9
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## 85	3	2	29
## 86	3	2	29
## 87	12	11	10
## 88	12	11	10
## 89	12	11	10
## 90	12	11	10
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## 104	8	7	21
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## 121	23	22	2
## 122	23	22	2
## 123	23	22	2
## 124	23	22	2
## 125	23	22	2
## 126	23	22	2
## 127	5	4	12
## 128	5	4	12

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## 130	3	2	29
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## 135	6	5	9
## 136	6	5	9
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## 144	16	15	2
## 145	16	15	2
## 146	16	15	2
## 147	1	0	1374
## 148	1	0	1374
## 149	1	0	1374
## 150	1	0	1374
## 151	2	1	71
## 152	11	10	9
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## 155	17	16	4
## 156	17	16	4
## 157	17	16	4
## 158	17	16	4
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## 612	0	1069
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## 614	0	1069
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## 615	1	1074
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## 616	1	1077
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## 617	0	1078
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## 619	1	1082
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## 620	1	1083
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## 621	1	1084
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## 622	1	1087
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## 636	0	1109
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## 638	1	1112
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## 639	1	1113
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## 708	1	1216
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## 709	1	1217
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## 739	1	1280
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## 748	1	1305
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## 761	0	1319
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## 762	0	1319
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## 763	0	1319
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## 764	0	1319
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## 765	0	1319
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## 772	1	1335
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## 773	0	1337
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## 776	1	1345
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## 777	1	1346
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## 787	1	1363
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## 788	1	1366
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## 789	1	1371
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## 790	0	1372
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## 791	1	1373
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## 792	0	1373
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## 800	1	1392
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## 801	1	1397
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## 802	1	1398
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## 803	1	1401
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## 804	0	1402
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## 805	0	1402
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## 806	0	1402
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## 807	0	1402
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## 808	0	1402
21		
## 809	0	1402
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## 810	1	1409
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## 811	1	1417
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## 812	1	1418
1		
## 813	1	1423
1		
## 814	1	1425
1		
## 815	1	1427
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## 816	1	1433
2		
## 817	1	1438
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## 818	1	1440
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## 820	0	1443
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## 821	0	1443
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## 825	0	1443
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## 827	1	1450
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## 828	1	1455
1		
## 829	0	1457
2		
## 830	1	1458
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## 831	1	1459
1		
## 832	1	1460
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## 833	1	1461
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## 834	1	1464
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## 835	0	1464
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## 837	0	1466
11		
## 838	0	1466
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## 839	0	1469
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## 840	0	1469
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## 842	1	1471
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## 843	1	1473
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1		
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2		
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## 849	1	1485
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## 862	0	1487
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## 863	1	1490
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## 865	1	1494
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## 870	1	1507
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## 874	1	1515
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## 875	1	1516
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## 876	0	1520
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## 889	0	1538
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## 890	0	1543
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## 892	0	1543
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## 893	0	1543
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## 899	0	1554
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## 902	1	1559
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## 914	1	1582
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## 917	0	1582
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## 919	1	1584
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## 920	1	1586
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## 921	0	1586
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## 922	0	1587
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## 923	0	1587
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## 924	0	1587
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## 925	0	1587
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## 926	0	1587
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## 927	1	1590
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## 928	0	1600
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## 929	1	1601
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## 930	1	1607
1		
## 931	1	1609
1		
## 932	1	1611
1		
## 933	1	1614
3		
## 934	0	1615
26		
## 935	0	1615
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## 936	0	1615
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## 937	0	1615
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## 938	0	1615
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## 939	0	1615
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## 940	0	1615
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## 941	0	1615
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## 942	0	1615
26		



## 943	0	1615
26		
## 944	0	1615
26		
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26		
## 946	0	1616
3		
## 947	1	1617
1		
## 948	1	1620
1		
## 949	1	1621
1		
## 950	1	1624
1		
## 951	1	1625
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## 952	1	1626
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## 953	1	1627
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## 954	0	1627
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## 958	0	1627
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## 959	1	1632
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## 960	1	1635
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1		
## 962	1	1639
1		
## 963	1	1642
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## 964	1	1645
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## 965	0	1649
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## 967	1	1650
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## 968	1	1652
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## 969	0	1653
10		
## 970	0	1653
10		
## 971	0	1653
10		
## 972	0	1653
10		
## 973	1	1655
1		
## 974	1	1656
1		
## 975	1	1658
1		
## 976	1	1660
1		
## 977	1	1664
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## 978	0	1666
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## 979	0	1666
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## 980	0	1666
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## 981	0	1666
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## 982	0	1666
9		
## 983	1	1669
3		
## 984	0	1672
3		
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3		
## 986	1	1678
1		
## 987	1	1679
1		
## 988	0	1682
15		
## 989	0	1682
15		
## 990	0	1682
15		
## 991	0	1682
15		
## 992	0	1682
15		

##	incrDaysThisCycle	nTimesIncrDayCountsOccurs	RandomForest_round	KNN_rou
nd				
## 1	0	1428	0	
0				
## 2	1	61	1	
4				
## 3	8	12	8	
7				
## 4	8	12	8	
7				
## 5	8	12	8	
7				
## 6	8	12	8	
7				
## 7	8	12	8	
7				
## 8	8	12	8	
8				
## 9	0	1428	0	
0				
## 10	0	1428	0	
0				
## 11	25	3	25	
25				
## 12	25	3	25	
25				
## 13	25	3	25	
25				
## 14	25	3	25	
25				
## 15	25	3	25	
25				
## 16	25	3	25	
25				
## 17	25	3	25	
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## 18	25	3	25	
24				
## 19	0	1428	0	
0				
## 20	4	7	4	
6				
## 21	4	7	4	
4				
## 22	1	61	1	
3				
## 23	0	1428	0	
0				
## 24	0	1428	0	
0				

## 25 6	7	25	7
## 26 6	7	25	7
## 27 21	21	2	21
## 28 21	21	2	21
## 29 21	21	2	21
## 30 21	21	2	21
## 31 21	21	2	21
## 32 0	0	1428	0
## 33 12	12	2	12
## 34 12	12	2	12
## 35 12	12	2	12
## 36 12	12	2	12
## 37 12	12	2	12
## 38 12	12	2	12
## 39 0	0	1428	0
## 40 0	0	1428	0
## 41 0	0	1428	0
## 42 0	0	1428	0
## 43 0	0	1428	0
## 44 0	0	1428	0
## 45 0	1	61	1
## 46 5	1	61	1
## 47 4	2	33	2
## 48 5	2	33	2
## 49 20	20	4	20

## 50 20	20	4	20
## 51 20	20	4	20
## 52 20	20	4	20
## 53 20	20	4	20
## 54 20	20	4	20
## 55 0	0	1428	0
## 56 0	0	1428	0
## 57 6	5	13	5
## 58 9	9	14	9
## 59 9	9	14	9
## 60 9	9	14	9
## 61 9	9	14	9
## 62 9	9	14	9
## 63 0	0	1428	0
## 64 0	0	1428	0
## 65 7	7	25	7
## 66 7	3	22	3
## 67 0	0	1428	0
## 68 9	10	14	10
## 69 10	10	14	10
## 70 10	10	14	10
## 71 9	9	14	9
## 72 9	9	14	9
## 73 9	9	14	9
## 74 9	9	14	9

## 75 12	14	8	14
## 76 14	14	8	14
## 77 14	14	8	14
## 78 14	14	8	14
## 79 14	14	8	14
## 80 14	14	8	14
## 81 14	14	8	14
## 82 11	11	6	11
## 83 11	11	6	11
## 84 0	0	1428	0
## 85 0	0	1428	0
## 86 1	1	61	1
## 87 0	0	1428	0
## 88 0	0	1428	0
## 89 0	0	1428	0
## 90 2	1	61	1
## 91 25	25	3	25
## 92 25	25	3	25
## 93 25	25	3	25
## 94 25	25	3	25
## 95 20	25	3	24
## 96 0	0	1428	0
## 97 0	0	1428	0
## 98 0	0	1428	0
## 99 10	13	3	13

## 100	13	3	13
13			
## 101	13	3	13
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## 102	13	3	13
13			
## 103	0	1428	0
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## 104	7	25	7
6			
## 105	7	25	7
7			
## 106	10	14	10
9			
## 107	10	14	10
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## 108	10	14	10
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## 109	20	4	20
20			
## 110	20	4	20
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## 111	20	4	20
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## 112	20	4	20
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## 113	20	4	20
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## 114	20	4	20
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## 115	20	4	20
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0			
## 117	6	7	6
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## 118	6	7	6
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## 119	6	7	6
6			
## 120	0	1428	0
0			
## 121	0	1428	0
0			
## 122	0	1428	0
0			
## 123	0	1428	0
0			
## 124	0	1428	0
0			

## 125 0	0	1428	0
## 126 7	7	25	7
## 127 0	0	1428	0
## 128 2	1	61	1
## 129 0	0	1428	0
## 130 3	4	7	4
## 131 4	4	7	4
## 132 4	4	7	4
## 133 5	4	7	4
## 134 4	4	7	4
## 135 0	0	1428	0
## 136 0	0	1428	0
## 137 7	7	25	7
## 138 7	7	25	7
## 139 8	8	12	8
## 140 8	8	12	8
## 141 8	8	12	8
## 142 0	0	1428	0
## 143 0	0	1428	0
## 144 0	0	1428	0
## 145 0	0	1428	0
## 146 0	0	1428	0
## 147 13	13	3	13
## 148 13	13	3	13
## 149 13	13	3	13



## 150	13	3	13
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## 151	2	33	2
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## 155	0	1428	0
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## 156	0	1428	0
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## 159	0	1428	0
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## 160	8	12	8
8			
## 161	8	12	8
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## 162	8	12	8
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## 163	8	12	8
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## 164	30	1	30
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## 165	30	1	30
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## 169	30	1	30
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## 170	30	1	30
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## 171	30	1	30
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## 172	30	1	30
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## 173	30	1	30
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## 174	0	1428	0
0			

## 175	0	1428	0
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## 176	7	25	7
7			
## 177	7	25	7
7			
## 178	7	25	7
7			
## 179	1	61	1
1			
## 180	1	61	1
5			
## 181	0	1428	0
0			
## 182	0	1428	0
0			
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## 184	0	1428	0
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## 186	0	1428	0
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## 187	0	1428	0
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## 188	0	1428	0
0			
## 189	1	61	1
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## 190	3	22	3
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## 191	0	1428	0
0			
## 192	16	5	16
14			
## 193	16	5	16
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## 194	16	5	16
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## 195	16	5	16
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## 196	16	5	16
16			
## 197	16	5	16
16			
## 198	1	61	1
1			
## 199	0	1428	0
0			

## 200	16	5	16
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## 201	16	5	16
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## 202	16	5	16
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## 203	16	5	16
16			
## 204	10	14	10
10			
## 205	10	14	10
10			
## 206	0	1428	0
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## 207	0	1428	0
0			
## 208	4	7	4
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## 209	0	1428	0
0			
## 210	0	1428	0
0			
## 211	5	13	5
5			
## 212	10	14	10
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## 213	10	14	10
10			
## 214	10	14	10
10			
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0			
## 216	0	1428	0
0			
## 217	14	8	14
14			
## 218	14	8	14
14			
## 219	14	8	14
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## 813	0	1428	0
0			
## 814	0	1428	0
0			
## 815	0	1428	0
0			
## 816	1	61	1
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## 817	0	1428	0
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## 818	0	1428	0
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## 819	15	6	15
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## 820	15	6	15
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## 821	15	6	15
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## 822	15	6	15
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## 823	15	6	15
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## 824	15	6	15
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## 825	15	6	15
15			
## 826	0	1428	0
0			
## 827	0	1428	0
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0			
## 829	1	61	1
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## 832	0	1428	0
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## 835	11	6	11
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## 836	0	1428	0
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## 838	10	14	10
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## 839	3	22	3
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## 846	1	61	1
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## 848	1	61	1
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## 857	18	4	18
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## 858	18	4	18
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## 859	7	25	7
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## 860	7	25	7
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## 861	7	25	7
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## 863	0	1428	0
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## 867	10	14	10
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## 872	6	7	6
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## 878	15	6	15
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## 895	1	61	1
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## 906 0	0	1428	0
## 907 14	14	8	14
## 908 14	14	8	14
## 909 14	14	8	14
## 910 3	5	13	5
## 911 5	5	13	5
## 912 0	0	1428	0
## 913 0	0	1428	0
## 914 6	7	25	7
## 915 8	7	25	7
## 916 6	7	25	7
## 917 8	7	25	7
## 918 4	7	25	7
## 919 0	0	1428	0
## 920 1	2	33	2
## 921 2	2	33	2
## 922 16	16	5	16
## 923 16	16	5	16
## 924 16	16	5	16

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## 926	16	5	16
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## 927	0	1428	0
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## 928	5	13	5
6			
## 929	0	1428	0
0			
## 930	0	1428	0
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0			
## 932	0	1428	0
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## 933	2	33	2
4			
## 934	25	3	25
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## 935	25	3	25
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## 936	25	3	25
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## 938	25	3	25
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## 946	2	33	2
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0			
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0			
## 949	0	1428	0
0			



## 950	0	1428	0
0			
## 951	0	1428	0
0			
## 952	0	1428	0
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## 953	14	8	14
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## 954	14	8	14
14			
## 955	14	8	14
14			
## 956	14	8	14
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## 957	14	8	14
14			
## 958	14	8	14
13			
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0			
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0			
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0			
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8			
## 966	8	12	8
8			
## 967	0	1428	0
0			
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## 969	9	14	9
9			
## 970	9	14	9
9			
## 971	9	14	9
9			
## 972	9	14	9
8			
## 973	0	1428	0
0			
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0			

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## 977	0	1428	0
0			
## 978	8	12	8
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## 979	8	12	8
8			
## 980	8	12	8
8			
## 981	8	12	8
8			
## 982	8	12	8
5			
## 983	2	33	2
2			
## 984	2	33	2
2			
## 985	2	33	2
4			
## 986	0	1428	0
0			
## 987	0	1428	0
0			
## 988	14	8	14
14			
## 989	14	8	14
14			
## 990	14	8	14
14			
## 991	14	8	14
14			
## 992	14	8	14
14			

##	Rpart_round	GLM_round	IncreasingDaysThisCycle
## 1	0	0	0
## 2	0	1	1
## 3	7	8	8
## 4	7	8	8
## 5	7	8	8
## 6	7	8	8
## 7	7	8	8
## 8	7	8	8
## 9	0	0	0
## 10	0	0	0
## 11	25	25	25
## 12	25	25	25
## 13	25	25	25

## 14	25	25	25
## 15	25	25	25
## 16	25	25	25
## 17	25	25	25
## 18	25	25	25
## 19	0	0	0
## 20	5	4	4
## 21	5	4	4
## 22	0	1	1
## 23	0	0	0
## 24	0	0	0
## 25	7	7	7
## 26	7	7	7
## 27	20	21	21
## 28	20	21	21
## 29	20	21	21
## 30	20	21	21
## 31	20	21	21
## 32	0	0	0
## 33	10	12	12
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## 35	10	12	12
## 36	10	12	12
## 37	10	12	12
## 38	10	12	12
## 39	0	0	0
## 40	0	0	0
## 41	0	0	0
## 42	0	0	0
## 43	0	0	0
## 44	0	0	0
## 45	0	1	1
## 46	0	1	1
## 47	2	2	2
## 48	2	2	2
## 49	20	20	20
## 50	20	20	20
## 51	20	20	20
## 52	20	20	20
## 53	20	20	20
## 54	20	20	20
## 55	0	0	0
## 56	0	0	0
## 57	5	5	5
## 58	10	9	9
## 59	10	9	9
## 60	10	9	9
## 61	10	9	9
## 62	10	9	9
## 63	0	0	0

## 64	0	0	0
## 65	7	7	7
## 66	2	3	3
## 67	0	0	0
## 68	10	10	10
## 69	10	10	10
## 70	10	10	10
## 71	10	9	9
## 72	10	9	9
## 73	10	9	9
## 74	10	9	9
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## 79	15	14	14
## 80	15	14	14
## 81	15	14	14
## 82	10	11	11
## 83	10	11	11
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## 89	0	0	0
## 90	0	1	1
## 91	25	25	25
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## 109	20	20	20
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## 111	20	20	20
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## 115	20	20	20
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## 139	7	8	8
## 140	7	8	8
## 141	7	8	8
## 142	0	0	0
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## 147	15	13	13
## 148	15	13	13
## 149	15	13	13
## 150	15	13	13
## 151	2	2	2
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## 153	2	3	3
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## 179	0	1	1
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## 188	0	0	0
## 189	0	1	1
## 190	2	3	3
## 191	0	0	0
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## 197	15	16	16
## 198	0	1	1
## 199	0	0	0
## 200	15	16	16
## 201	15	16	16
## 202	15	16	16
## 203	15	16	16
## 204	10	10	10
## 205	10	10	10
## 206	0	0	0
## 207	0	0	0
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## 210	0	0	0
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## 212	10	10	10
## 213	10	10	10

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## 215	0	0	0
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