## montecarlo

EE

## 2024-10-07

```
library(quantmod)
## Warning: package 'quantmod' was built under R version 4.2.3
## Loading required package: xts
## Warning: package 'xts' was built under R version 4.2.3
## Loading required package: zoo
## Warning: package 'zoo' was built under R version 4.2.3
##
## Attaching package: 'zoo'
## The following objects are masked from 'package:base':
##
##
       as.Date, as.Date.numeric
## Loading required package: TTR
## Warning: package 'TTR' was built under R version 4.2.3
## Registered S3 method overwritten by 'quantmod':
##
     method
     as.zoo.data.frame zoo
library(ggplot2)
## Warning: package 'ggplot2' was built under R version 4.2.3
library(reshape2)
```

## Warning: package 'reshape2' was built under R version 4.2.2

```
#from Yahoo take an example stock
getSymbols("AAPL", src = "yahoo", from = "2015-01-01", to = "2020-01-01")
## [1] "AAPL"
prices <- Cl(AAPL)</pre>
head(prices)
              AAPL.Close
##
## 2015-01-02 27.3325
## 2015-01-05
                 26.5625
## 2015-01-06
                 26.5650
## 2015-01-07
                 26.9375
## 2015-01-08
                 27.9725
## 2015-01-09
                 28.0025
#compared to previous day
returns <- dailyReturn(prices)</pre>
#threshold to determine significance
limit <- 0.01
#categorize by quality
states <- ifelse(returns > limit, "Up", ifelse(returns < -limit,</pre>
                                                 "Down", "Stable"))
#add it to df
price_data <- data.frame(Date = index(prices), Price = coredata(prices), Returns = returns, State = st</pre>
#now all in one
colnames(price_data)[c(2,3,4)] <- c("Price", "Returns", "State")</pre>
head(price_data)
                    Date Price
                                        Returns State
## 2015-01-02 2015-01-02 27.3325 0.000000e+00 Stable
## 2015-01-05 2015-01-05 26.5625 -2.817161e-02
## 2015-01-06 2015-01-06 26.5650 9.413775e-05 Stable
## 2015-01-07 2015-01-07 26.9375 1.402219e-02
                                                     Uр
## 2015-01-08 2015-01-08 27.9725 3.842227e-02
## 2015-01-09 2015-01-09 28.0025 1.072506e-03 Stable
#naturally we need the transition matrix now for Markov chain
price_data$NextState <- c(price_data$State[-1], NA)</pre>
#last row gone
price_data <- na.omit(price_data)</pre>
#freq table
transition_count <- table(price_data$State, price_data$NextState)</pre>
#transition matrix rows adding up to one as per probability requirements
transition_matrix <- prop.table(transition_count, 1)</pre>
transition matrix
```

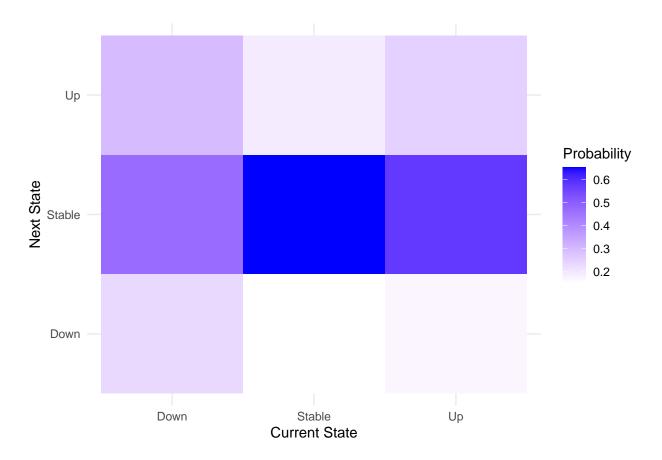
```
##
## Down Stable Up
## Down 0.2325581 0.4697674 0.2976744
## Stable 0.1528327 0.6521739 0.1949934
## Up 0.1731449 0.5759717 0.2508834

#verify
sums <- rowSums(transition_matrix)
all(sums == 1)</pre>
```

## ## [1] TRUE

```
#quick visuals for the matrix
transition_df <- melt(transition_matrix)

#heatmap best fit
ggplot(transition_df, aes(Var1, Var2, fill = value)) +
    geom_tile() +
    scale_fill_gradient(low = "white", high = "blue") +
    labs(x = "Current State", y = "Next State", fill = "Probability") +
    theme_minimal()</pre>
```



```
#moving onto Monte Carlo simulation with basis of our transition matrix
#single price path
simulate_price_path <- function(initial_price, initial_state, transition_matrix, n_days, up_pct = 0.01,
 price <- initial_price</pre>
 state <- initial_state</pre>
 price_path<- numeric(n_days)</pre>
 price_path[1] <- price</pre>
  #state names
  states<- rownames(transition_matrix)</pre>
 for(day in 2:n_days){
    #next state based on current (respective probs)
    next_state <- sample(states, 1, prob = transition_matrix[state,])</pre>
    #adjust price
    if(next_state == "Up"){
      price <- price* (1 + up_pct)</pre>
    else if(next_state == "Down") {
      price <- price * (1-down_pct)</pre>
    #updated price
    price_path[day] <- price</pre>
    #update state
    state <- next_state</pre>
 return(price_path)
#Example simulation
initial_price <- tail(price_data$Price,1)</pre>
initial_state <- tail(price_data$State, 1)</pre>
n_days <- 365
simulated_path <- simulate_price_path(initial_price, initial_state, transition_matrix, n_days)</pre>
simulated_path
##
     [1] 72.88000 72.88000 72.88000 73.60880 72.87271 72.87271 72.87271 73.60144
     [9] 74.33745 74.33745 74.33745 74.33745 74.33745 74.33745 75.08083 75.08083
##
## [17] 74.33002 74.33002 73.58672 74.32258 74.32258 73.57936 74.31515 75.05830
## [25] 75.05830 74.30772 75.05080 75.05080 75.05080 75.05080 75.05080 75.05080
## [33] 74.30029 75.04329 75.04329 75.04329 74.29286 73.54993 73.54993 73.54993
## [41] 74.28543 75.02828 75.02828 74.27800 75.02078 75.02078 75.02078 74.27057
## [49] 75.01328 74.26315 75.00578 75.00578 75.75584 75.75584 75.75584 75.75584
## [57] 75.75584 75.75584 76.51339 76.51339 76.51339 76.51339 76.51339 75.74826
```

```
## [73] 74.98328 75.73311 75.73311 74.97578 75.72554 76.48279 77.24762 76.47515
## [81] 77.23990 77.23990 78.01230 78.01230 77.23217 76.45985 76.45985 77.22445
## [89] 77.22445 77.99669 77.99669 77.99669 78.77666 77.98889 78.76878 79.55647
       [97] 78.76091 78.76091 78.76091 78.76091 78.76091 78.76091 78.76091 79.54852
## [105] 79.54852 78.75303 79.54056 79.54056 79.54056 79.54056 80.33597 80.33597
## [113] 81.13933 81.13933 80.32793 80.32793 81.13121 81.13121 81.13121 81.13121
## [121] 81.13121 81.13121 81.13121 80.31990 81.12310 81.12310 81.12310 81.12310
## [129] 81.12310 81.93433 82.75367 83.58121 84.41702 85.26119 85.26119 85.26119
## [137] 86.11380 86.97494 86.10519 86.96624 86.96624 86.96624 86.96624 86.09658
## [145] 86.09658 86.09658 86.09658 86.09658 85.23562 85.23562 84.38326 85.22709
## [153] 85.22709 84.37482 84.37482 84.37482 84.37482 83.53107 83.53107 83.53107
## [161] 83.53107 83.53107 82.69576 81.86881 82.68749 81.86062 81.86062 81.04201
## [169] 80.23159 80.23159 80.23159 79.42928 79.42928 79.42928 79.42928 79.42928
## [177] 79.42928 79.42928 79.42928 79.42928 79.42928 78.63498 79.42133 79.42133
## [185] 79.42133 79.42133 79.42133 80.21555 79.41339 80.20753 80.20753 80.20753
## [193] 80.20753 79.40545 80.19950 80.19950 81.00150 81.00150 81.81151 81.81151
## [201] 81.81151 81.81151 80.99340 80.99340 80.99340 80.99340 80.99340 81.80333
## [209] 80.98530 80.98530 80.98530 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.79515 81.
## [217] 81.79515 81.79515 82.61310 82.61310 82.61310 82.61310 83.43924 83.43924
## [225] 83.43924 83.43924 84.27363 83.43089 82.59658 82.59658 82.59658 82.59658
## [233] 82.59658 83.42255 83.42255 82.58832 82.58832 83.41421 83.41421 83.41421
## [241] 83.41421 82.58006 82.58006 82.58006 82.58006 83.40586 83.40586 83.40586
## [249] 84.23992 84.23992 84.23992 85.08232 85.08232 85.08232 85.93315 85.93315
## [257] 86.79248 86.79248 86.79248 86.79248 86.79248 85.92455 85.92455 85.92455
## [265] 85.92455 85.92455 85.92455 85.92455 85.92455 85.92455 85.06531 85.91596
## [273] 85.05680 85.05680 85.05680 84.20623 83.36417 83.36417 83.36417 83.36417
## [281] 83.36417 83.36417 83.36417 83.36417 83.36417 82.53053 82.53053
## [289] 82.53053 82.53053 82.53053 83.35583 84.18939 84.18939 83.34750 82.51402
## [297] 83.33916 83.33916 83.33916 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.17256 84.
## [305] 83.33083 84.16414 84.16414 85.00578 85.00578 85.00578 85.00578 85.85584
## [313] 85.85584 85.85584 86.71440 86.71440 86.71440 86.71440 86.71440 86.71440
## [321] 86.71440 86.71440 86.71440 86.71440 87.58154 88.45735 89.34193 89.34193
## [329] 89.34193 89.34193 90.23535 89.33299 89.33299 89.33299 89.33299 89.33299
## [337] 90.22632 91.12859 92.03987 92.03987 92.03987 92.03987 92.03987 92.03987
## [345] 92.96027 92.96027 92.96027 92.03067 91.11036 91.11036 91.11036 90.19926
## [353] 89.29727 88.40429 89.28834 89.28834 88.39545 88.39545 88.39545 89.27941
## [361] 89.27941 89.27941 89.27941 89.27941 89.27941
#now this will run for multiple simulations not only one
run_monte_carlo<- function(initial_price, initial_state, transition_matrix, n_days, n_simulations, up_p
    #stores all
    all_sim <- matrix(NA, nrow = n_days, ncol = n_simulations)
    #run
    for(i in 1:n_simulations){
        all_sim[, i] <- simulate_price_path(initial_price, initial_state, transition_matrix, n_days, up_pct,</pre>
    return(all sim)
```

## [65] 75.74826 75.74826 76.50574 76.50574 75.74069 75.74069 75.74069 75.74069

```
#example run (1000)
n simulations <- 1000
all_sim <- run_monte_carlo(initial_price, initial_state, transition_matrix, n_days, n_simulations)
head(all_sim)
                                  [,1]
                                                          [,2] [,3]
                                                                                                    [,4]
                                                                                                                             [,5]
                                                                                                                                                      [,6]
                                                                                                                                                                               [,7]
                                                                                                                                                                                                        [,8]
## [1,] 72.88000 72.88000 72.88 72.88000 72.88000 72.88000 72.88000 72.88000
## [2,] 72.88000 72.88000 72.88 72.15120 72.88000 73.60880 73.60880 72.15120
## [3,] 73.60880 72.15120 72.88 71.42969 72.88000 72.87271 74.34489 71.42969
## [4,] 72.87271 72.87271 72.88 72.14398 72.15120 72.87271 74.34489 70.71539
## [5,] 72.14398 72.87271 72.88 71.42254 71.42969 72.87271 75.08833 70.71539
## [6,] 71.42254 73.60144 72.88 72.13677 70.71539 72.87271 75.08833 70.71539
                                                                              [,11]
                                                                                                      [,12]
                                                                                                                               [,13]
                                                                                                                                                        [,14] [,15]
                                 [,9]
                                                     [,10]
                                                                                                                                                                                                  [,16]
## [1,] 72.88000 72.8800 72.88000 72.88000 72.88000 72.88000 72.88 72.88000
## [2,] 73.60880 72.8800 72.88000 72.15120 72.88000 72.88000 72.88 72.88000
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## [4,] 72.87271 72.8800 72.88000 72.87271 72.88000 72.88000 72.88 73.60880
## [5,] 72.87271 72.8800 72.15120 73.60144 73.60880 72.15120 72.88 73.60880
## [6,] 72.87271 72.1512 72.87271 72.86542 74.34489 71.42969 72.88 74.34489
                                                                                           [,20] [,21] [,22]
                               [,17] [,18]
                                                                     [,19]
                                                                                                                                                      [,23]
## [1,] 72.88000 72.88 72.8800 72.88 72.88 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.8800 72.
## [2,] 72.88000 72.88 72.8800 72.8800 72.88 72.88 73.60880 72.8800 72.1512
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## [5,] 73.60880 72.88 72.8800 72.8800 72.88 72.88 72.87271 72.8800 72.1512
## [6,] 72.87271 72.88 73.6088 72.1512 72.88 72.88 72.87271 73.6088 72.1512
                            [,26]
                                                 [,27]
                                                                           [,28]
                                                                                                    [,29] [,30] [,31]
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## [1,] 72.8800 72.8800 72.88000 72.88000 72.88 72.88 72.88000 72.88000 72.88
## [2,] 73.6088 72.8800 72.88000 72.15120 72.88 72.88 72.88000 72.15120 72.88
## [3,] 73.6088 72.8800 73.60880 72.15120 72.88 72.88 73.60880 72.15120 72.88
## [4,] 73.6088 73.6088 72.87271 72.87271 72.88 72.88 74.34489 72.15120 72.88
## [5,] 73.6088 73.6088 72.14398 72.87271 72.88 72.88 74.34489 72.15120 72.88
## [6,] 73.6088 73.6088 72.14398 73.60144 72.88 72.88 74.34489 72.87271 72.88
                               [,35] [,36] [,37]
                                                                                        [,38]
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## [4,] 72.15120 72.15120 73.60144 74.34489 72.15120 72.15120 73.6088 72.87271
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## [2,] 72.15120 72.88000 73.60880 73.60880 72.88000 72.8800 73.60880 73.6088
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## [4,] 70.71539 73.60880 72.87271 75.08833 72.15120 72.8800 73.60880 73.6088
## [5,] 70.71539 74.34489 73.60144 75.83922 72.87271 72.8800 72.87271 73.6088
## [6,] 70.71539 74.34489 73.60144 75.83922 72.87271 73.6088 73.60144 73.6088
                            [,951] [,952] [,953] [,954] [,955]
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                              [,970]
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##
        [,1000]
## [1,] 72.88000
## [2,] 72.88000
## [3,] 72.88000
## [4,] 73.60880
## [5,] 72.87271
## [6,] 72.14398
simulated_df <- as.data.frame(all_sim)</pre>
#for plotting
simulated_df$Day <- 1:n_days</pre>
```

```
simulated_long <- melt(simulated_df, id = "Day")

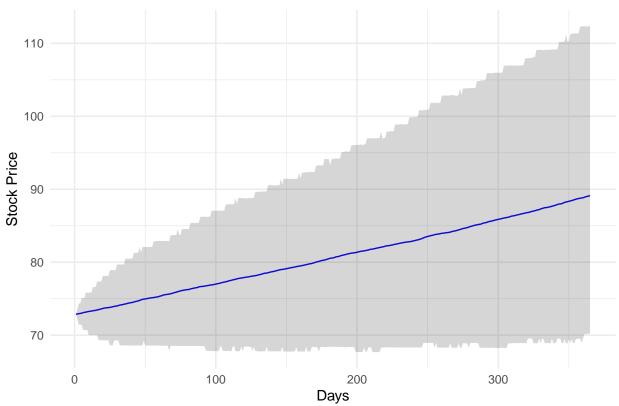
#plot first 10 paths

ggplot(simulated_long[simulated_long$variable %in% paste0("V", 1:10),], aes(x = Day, y = value, color=value)
    labs(title = "Monte Carlo of stock prices", x = "Days", y = "Simulated Stock Price") +
    theme_minimal()</pre>
```

## Monte Carlo of stock prices







```
#now that we have metrics well annotated and ready,let's move on to Value at Risk calculation (Of cours
#final day prices from all sims
final_prices<- all_sim[n_days, ]

#VaR
VaR_95 <- quantile(final_prices, probs = 0.05)
VaR_95

## 5%
## 71.7045</pre>
```

```
#Now more in depth, looking at conditioanal VaR

CVaR_prices <- final_prices[final_prices < VaR_95]

#calculate CVaR as avg

CVaR_95<- mean(CVaR_prices)
CVaR_95</pre>
```

## [1] 68.33302

```
#Not done yet, now calculate Maximum Drawdown which is essentially worst case decline from peak
max_drawdown_fun <- function(price_path){</pre>
  peak <- max(price path)</pre>
  trough<- min(price_path[which(price_path == peak): length(price_path)])</pre>
 max_drawdown<- (peak- trough) / peak</pre>
 return(max drawdown)
}
#apply to all
max_dds<- apply(all_sim,2, max_drawdown_fun)</pre>
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
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## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 12 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 5 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 8 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 11 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 9 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 8 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 9 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 8 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 8 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 10 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 8 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 9 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 8 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 10 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 18 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 21 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 8 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
```

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## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 9 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 8 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 8 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
```

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## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 10 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 16 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 4 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 4 elements: only the first used
```

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## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 8 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 9 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 8 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 9 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 14 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 16 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 8 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 9 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
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## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 11 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 8 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
```

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## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
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## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
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## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 6 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 12 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 10 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 10 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 7 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 11 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
```

```
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 5 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 3 elements: only the first used
## Warning in which(price path == peak):length(price path): numerical expression
## has 4 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 2 elements: only the first used
## Warning in which(price_path == peak):length(price_path): numerical expression
## has 9 elements: only the first used
#calculate avg and worst case dd
avg_max_dd <- mean(max_dds)</pre>
worst_case <- max(max_dds)</pre>
avg_max_dd
## [1] 0.04833077
worst_case
```

## ## [1] 0.2775528

```
## Warning: Using 'size' aesthetic for lines was deprecated in ggplot2 3.4.0.
## i Please use 'linewidth' instead.
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was
## generated.
```

## Distribution of Simulated Final Prices



}

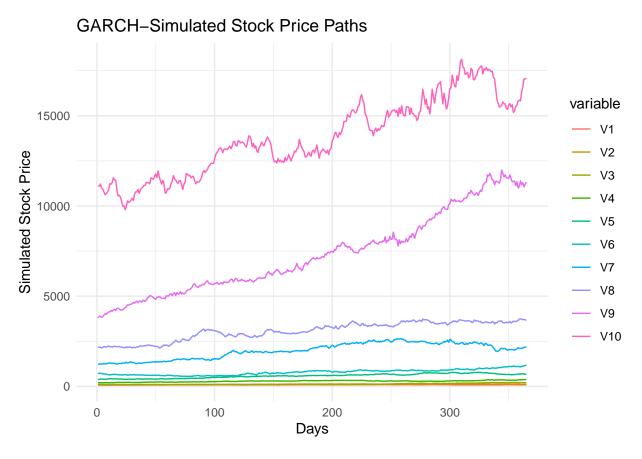
```
return(results)
#analysis
up_pct_vals \leftarrow c(0.01, 0.02, 0.05)
down pct vals < c(0.01, 0.02, 0.05)
sens_res<- sens_analysis(up_pct_vals, down_pct_vals, n_simulations,n_days)</pre>
sens res
                      VaR 95
##
        up down
                              CVaR 95
## 5% 0.01 0.01 73.080326 69.310895
## 5%1 0.01 0.02 34.147766 31.814456
## 5%2 0.01 0.05 3.417604 2.884429
## 5%3 0.02 0.01 142.965245 131.869886
## 5%4 0.02 0.02 70.834669 64.433999
## 5%5 0.02 0.05
                 6.812242
                              5.754451
## 5%6 0.05 0.01 1057.141540 897.016453
## 5%7 0.05 0.02 521.911461 448.612612
## 5%8 0.05 0.05 61.005679 49.042255
#This provides great info!
#Now let's do stress testing to understand prices react to extreme conditions
#We modify tr matrix to increase probability of "Down"
stress_trans_matrix <- transition_matrix</pre>
stress_trans_matrix["Up", "Down"] <- 0.4
stress_trans_matrix["Down", "Down"] <- 0.7
stress_trans_matrix<- prop.table(stress_trans_matrix,1) #normalize
stress_sims <- run_monte_carlo(initial_price, initial_state, stress_trans_matrix, n_days, n_simulations
#calculate value at risk and conditioned var
final_prices_stress<- stress_sims[n_days, ]</pre>
var_95_stress<- quantile(final_prices_stress, probs=0.05)</pre>
cvar_95_stress <- mean(final_prices_stress[final_prices_stress < var_95_stress])</pre>
var_95_stress
             5%
## 0.0005976425
cvar_95_stress
```

## [1] 0.0003536521

```
## Loading required package: parallel
##
## Attaching package: 'rugarch'
## The following object is masked from 'package:stats':
##
##
       sigma
# Specify GARCH(1,1) model
garch_spec <- ugarchspec(variance.model = list(garchOrder = c(1, 1)),</pre>
                         mean.model = list(armaOrder = c(1, 0)))
# Fit GARCH model to stock returns
garch_fit <- ugarchfit(spec = garch_spec, data = returns)</pre>
# Simulate future returns with GARCH model
garch_sim <- ugarchsim(garch_fit, n.sim = n_days, m.sim = n_simulations)</pre>
# Extract simulated prices
simulated_returns <- fitted(garch_sim)</pre>
garch_price_paths <- initial_price * exp(cumsum(simulated_returns))</pre>
# Make sure garch_price_paths is a matrix with columns for each simulation
garch_price_paths <- matrix(garch_price_paths, nrow = n_days, ncol = n_simulations)</pre>
# Convert the price paths matrix into a data frame
garch_simulated_df <- as.data.frame(garch_price_paths)</pre>
garch_simulated_df$Day <- 1:n_days # Add the Day column for plotting
# Reshape the data for ggplot, treating each column as a separate simulation (V1, V2, ..., Vn)
library(reshape2)
garch long <- melt(garch simulated df, id = "Day")</pre>
# Check the reshaped data (this should now contain variables like V1, V2, etc.)
# Plot the first 10 GARCH-simulated paths
ggplot(garch_long[garch_long$variable %in% paste0("V", 1:10),], aes(x = Day, y = value, color = variabl
  geom_line() +
  labs(title = "GARCH-Simulated Stock Price Paths", x = "Days", y = "Simulated Stock Price") +
 theme_minimal()
```

#Finally let's try GARCH modeling to test for varying variances

library(rugarch)



```
#volatility check from GARCH(common)

sim_volatility<- sigma(garch_sim)

volatility_df <- as.data.frame(sim_volatility)

volatility_df$Day <- 1:n_days

#reshape

volatility_long <- melt(volatility_df, id = "Day")

#plot

ggplot(volatility_long[volatility_long$variable %in% pasteO("V", 1:10),], aes(x = Day, y = value, color geom_line() +
    labs(title = "GARCH-Simulated Volatility Paths", x = "Days", y = "Simulated Volatility") +
    theme_minimal()</pre>
```

