Lab6

Eric Huber

09/03/2022

## Question 1:

#### (1.a)

fwd = LETTERS

###(1.b)

i = 1  
bkwd = numeric()  
k= length(fwd)  
  
while(i <= k){  
 bkwd[i] = c(fwd[k+1-i])   
 i = i+1  
 }

## Question 2:

### (2.a)

nd = read.csv(file = "normaldist.csv")

### (2.b)

mu = mean(nd$x)

### (2.c)

sig = sd(nd$x)

### (2.d)

qnorm(.57, mu, sig)

## [1] 53.41799

## Question 3:

###(3.a)

bb = read.csv(file = "boombust.csv")

### (3.b)

bb = na.omit(bb)

### (3.c)

n = dim(bb)[1]

### (3.d)

goodbad = data.frame(matrix(ncol = 2, nrow = n))  
colnames(goodbad) = c("Good", "Bad")

###(3.e)

j = 1  
  
while(j<=n){  
 if(bb$Boom[j] >= bb$Bust[j]){  
 goodbad$Good[j] = bb$Name[j]  
 }  
 else{  
 goodbad$Bad[j] = bb$Name[j]  
 }  
   
 j = j+1  
}

### (3.f)

length(goodbad$Good[!is.na(goodbad$Good)])

## [1] 27

### (3.g)

length(goodbad$Bad[!is.na(goodbad$Bad)])

## [1] 194