

Lab6

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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
```