Practical 6

Create Boxplot and side by side stem and graph of following data

A={59,72,73,63,81,68,70,76,68,65,70,64,79,90,82,87,78,97,74,77,97,78,77,116,115,118,107}
B={61,58,78,71,72,92,66,83,70,83,78,81,74,85,89,98,97,141,126,112}

Workout

Putting the values in the data

```
A=c(59,72,73,63,81,68,70,76,68,65,70,64,79,90,82,87,78,97,74,77,97,78,77,116,115,118,107)
B=c(61,58,78,71,72,92,66,83,70,83,78,81,74,85,89,98,97,141,126,112)
print(A)
```

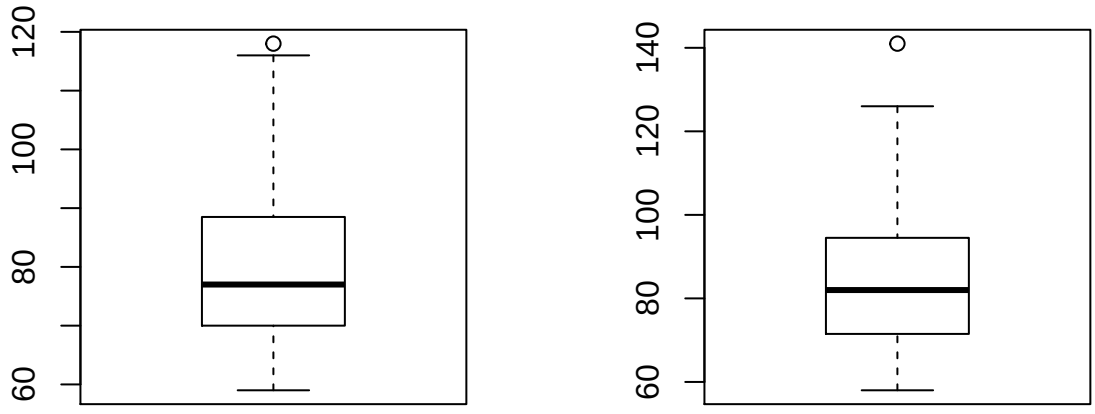
```
##  [1]  59  72  73  63  81  68  70  76  68  65  70  64  79  90  82  87  78  97  74
## [20]  77  97  78  77 116 115 118 107
```

```
print(B)
```

```
##  [1]  61  58  78  71  72  92  66  83  70  83  78  81  74  85  89  98  97 141 126
## [20] 112
```

Plotting boxplot

```
par(mfrow=c(1,2))               #To plot the boxplot in same plot
boxplot(A)
boxplot(B)
```



and for double sided stem we will use

```
stem<-unique(min(A%/%10,B%/%10):max(A%/%10,B%/%10))
for(i in sort(stem))
{
cat((sort(((A[(A%/%10)==i]/10)-i)*10,decreasing=T)),"|",i,"|",sort(((B[(B%/%10)==i]/10)-i)*10) , "\n")
}
```

```
## 9 | 5 | 8
## 8 8 5 4 3 | 6 | 1 6
## 9 8 8 7 7 6 4 3 2 0 0 | 7 | 0 1 2 4 8 8
## 7 2 1 | 8 | 1 3 3 5 9
## 7 7 0 | 9 | 2 7 8
## 7 | 10 |
## 8 6 5 | 11 | 2
##   | 12 | 6
##   | 13 |
##   | 14 | 1
```