MidTerm Exam 1 - R programming

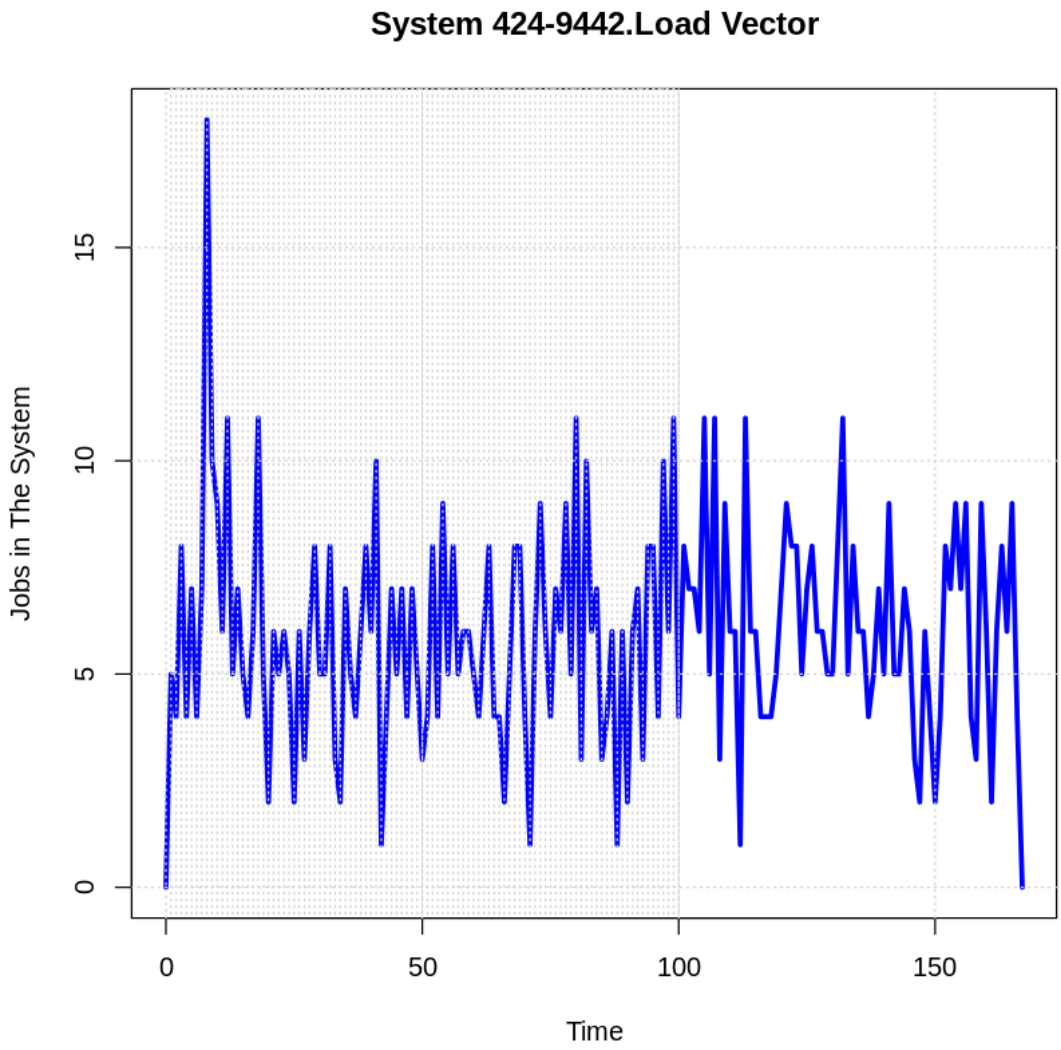
March 5, 2019

```
In [1]: ### This is R Code
```

```
In [2]: y<- c(0, 5, 4, 8, 4, 7, 4, 7, 18, 10, 9, 6, 11, 5, 7, 5, 4, 6, 11,
              5, 2, 6, 5, 6, 5, 2, 6, 3, 6, 8, 5, 5, 8, 3, 2, 7, 5, 4, 6,
              8, 6, 10, 1, 4, 7, 5, 7, 4, 7, 5, 3, 4, 8, 4, 9, 5, 8, 5, 6,
              6, 5, 4, 6, 8, 4, 4, 2, 5, 8, 8, 4, 1, 6, 9, 6, 4, 7, 6, 9,
              5, 11, 3, 10, 6, 7, 3, 4, 6, 1, 6, 2, 6, 7, 3, 8, 8, 4, 10,
              6, 11, 4, 8, 7, 7, 6, 11, 5, 11, 3, 9, 6, 6, 1, 11, 6, 6, 4,
              4, 4, 5, 7, 9, 8, 8, 5, 7, 8, 6, 6, 5, 5, 8, 11, 5, 8, 6, 6,
              4, 5, 7, 5, 9, 5, 5, 7, 6, 3, 2, 6, 4, 2, 4, 8, 7, 9, 7, 9,
              4, 3, 9, 6, 2, 6, 8, 6, 9, 4, 0)
```

```
In [4]: x<- c(0:167)
```

```
In [41]: plot (x,y, 'l', main="System 424-9442.Load Vector",
                 col='blue', lwd=3,
                 xlab="Time", ylab="Jobs in The System")
         grid(nx=NULL, ny=NULL, col="lightgray", lty="dotted")
         axis (side=3, at = (1:100), tck=1, lty= "dotted", col='lightgray', labels= FALSE)
```



In [26]:
```
### Calculating the mean value
mean(y)
```

5.94047619047619

In [27]:
```
###Calculationg the standard deviation
sd(y)
```

2.57510509279732