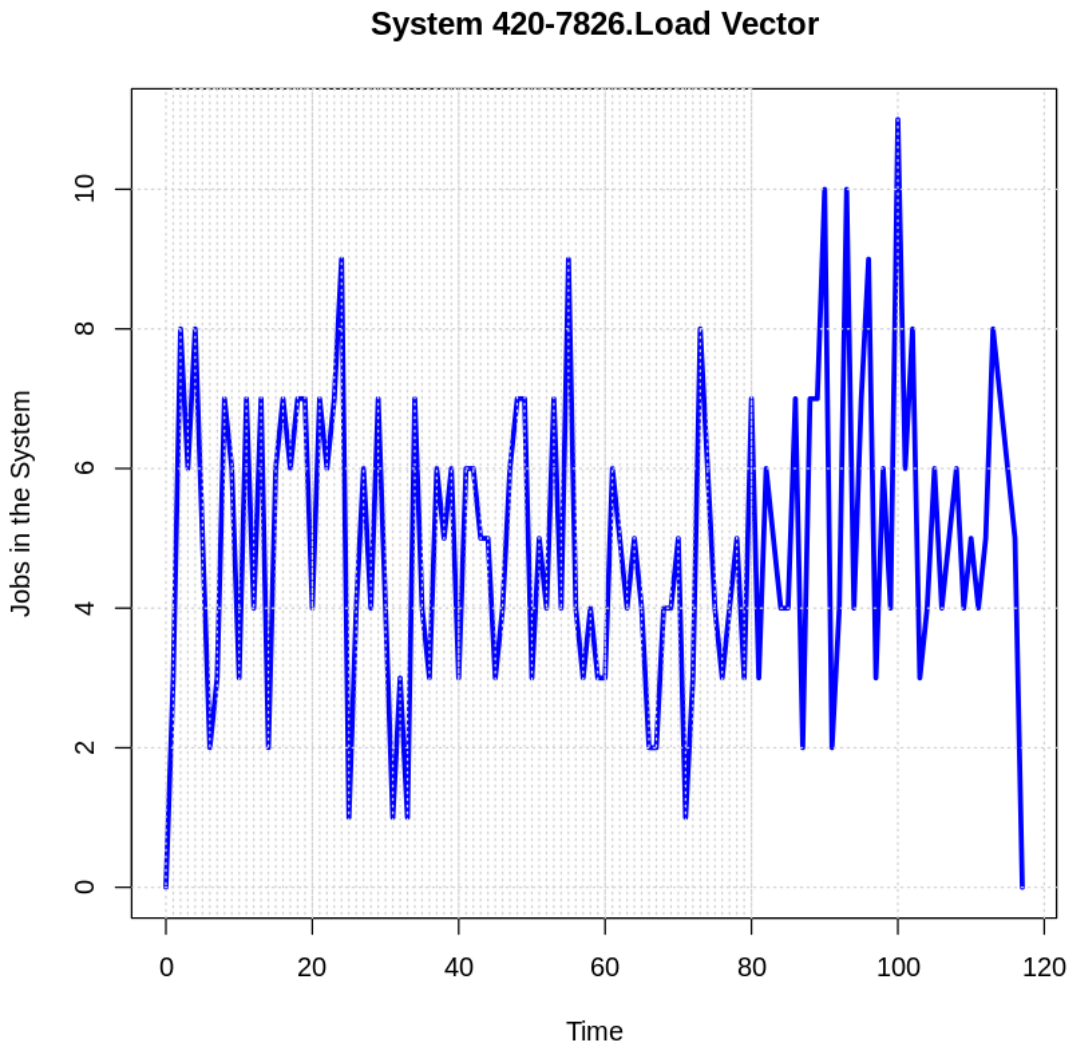
MidTerm Exam 1 - R Programming

March 5, 2019

```
In [ ]: ## The code in R programming
```

```
In [11]: y<-c(0,3, 8, 6, 8, 5, 2, 3, 7, 6, 3, 7, 4, 7, 2, 6, 7, 6, 7,
              7, 4, 7, 6, 7, 9, 1, 4, 6, 4, 7, 4, 1, 3, 1, 7, 4, 3,6,
              5, 6, 3, 6, 6, 5, 5, 3, 4, 6 ,7 ,7 ,3, 5, 4, 7, 4 ,9 ,4,
              3 ,4 ,3 ,3, 6, 5, 4, 5, 4, 2, 2 ,4 ,4, 5, 1, 3, 8, 6,
              4, 3, 4, 5, 3, 7, 3, 6, 5, 4, 4, 7, 2, 7, 7, 10 ,2, 4,
              10, 4, 7, 9, 3, 6, 4, 11, 6, 8, 3, 4, 6, 4, 5, 6, 4, 5,4,
              5, 8, 7, 6, 5, 0
         )
         x<-c (0:117)
```

```
In [38]: plot (x,y,'l',main = 'System 420-7826.Load Vector',
               xlab='Time', ylab='Jobs in the System', col='blue', lwd=3)
         grid (nx=NULL, ny=NULL, col='lightgray', lty='dotted')
         axis (side=3, at=(1:80), tck=1,lty ='dotted',col='lightgray',labels=FALSE)
```




```
In [33]: ### Calculating mean value

In [34]: mean (y)
```

4.96610169491525

```
In [35]: ### Calculating standard deviation

In [36]: sd(y)
```

2.14010225568393