Homework #2

February 19, 2019

0.0.1 R code

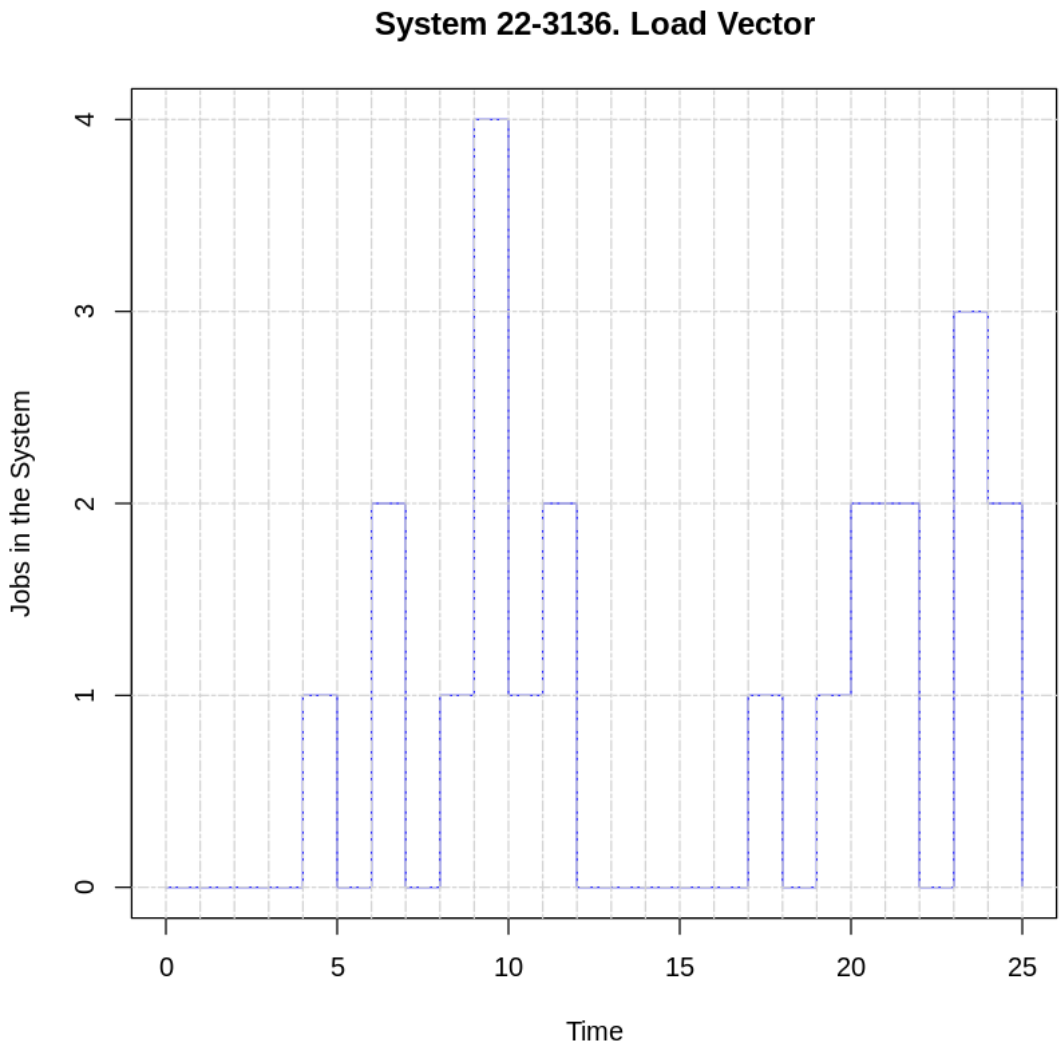
```
In [1]: x<-c(0:25)
```

```
In [2]: x
```

1. 0 2. 1 3. 2 4. 3 5. 4 6. 5 7. 6 8. 7 9. 8 10. 9 11. 10 12. 11 13. 12 14. 13 15. 14 16. 15 17. 16 18. 17 19. 18 20. 19 21. 20 22. 21 23. 22 24. 23 25. 24 26. 25

```
In [3]: y<-c(0,0,0,0,1,0,2,0,1,4,1,2,0,0,0,0,0,1,0,1,2,2,0,3,2,0)
```

```
In [4]: plot(x,y,"s",col="blue", main="System 22-3136. Load Vector", ylab="Jobs in the System"
        grid(27,NULL,lty=6)
```



0.0.2 Python code

```
In [1]: import matplotlib.pyplot as plt

In [2]: import numpy as np

In [3]: x = np.arange(26)

In [4]: x

Out[4]: array([ 0,  1,  2,  3,  4,  5,  6,  7,  8,  9, 10, 11, 12, 13, 14, 15, 16,
                17, 18, 19, 20, 21, 22, 23, 24, 25])

In [5]: y = [0,0,0,0,0,1,0,2,0,1,4,1,2,0,0,0,0,0,1,0,1,2,2,0,3,2]
```

```
In [6]: plt.step(x,y)
        plt.grid(b=None,which='both',axis='both')
        plt.title('System 22-3136. Load Vector')
        plt.xlabel('Time')
        plt.ylabel('Jobs in the System')

Out[6]: Text(0,0.5,'Jobs in the System')
```