EPPS 2302 : QUIZ #1

To get full credit for your answer, you must show your work. Use the space provided on this sheet to show your work.

Problem 1(60pt)

X is a sample data set. Find mode, mean, median, IQR, variance and standard deviation.

$$X= \{7, 1, 7, 6, 1, 4, 3, 3, 1, 6, 4, 5, 6, 5, 6 \}$$

```
Min. 1st Qu.  Median    Mean 3rd Qu.   Max.
  1.000   3.000   5.000   4.333   6.000   7.000
> Mode(x)
[1] 6
> var(x)
[1] 4.52381
> sd(x)
[1] 2.126925
> IQR(x)
[1] 3
```

Problem 2(40pt)

A is a sample data set. Draw a boxplot for it. Also, you need to show the values for Q1, Q2, Q3, range, and outliers in your plot

$$A= \{5, 6, 4, 6, 6, 5, 5, 1, 2, 6, 8, 1\}$$

```
> 0%   25%   50%   75% 100%
    1    3    5    6    8
```