

Assignment 2

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Starting with R-Markdown

In the following R-Markdown document some data are created followed by calculation of some summary statistics and display of graphical summaries. All the results are embedded for you in the report when you `knit` the document into a report.

The following R chunk creates a dataset in a vector and stores it in R's memory using the name `x`. You will have been given some directions in how to adapt this dataset on Blackboard.

```
x = c(10, 23, 14, 12, 34, 26, 28)
```

The mean of this data is

```
mean(x)
```

```
## [1] 21
```

The summary statistics (minimum, maximum, Q_1 , median, mean and Q_3) obtained from the `summary()` function are:

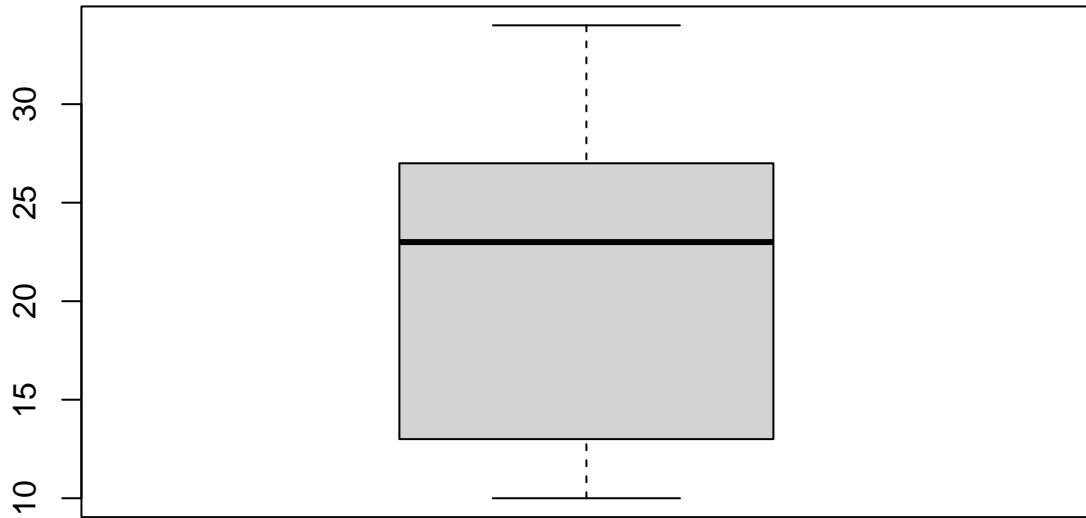
```
# Insert your code here
```

The five number summary which uses Tukey's method to estimate the lower and upper quartiles (Q_1 and Q_3) is given below. Notice the small differences in these quartiles.

```
# Insert your code here
```

The boxplot of the data below also uses Tukey's method. I would describe the shape of the distribution using the boxplot as [insert your answer here].

```
boxplot(x)
```



A histogram is given below. I would describe the shape of the distribution using the histogram as [insert your answer here].

Use the help system in R to learn how to use the `breaks` argument in the `hist` function to include around 10 breakpoints. To use the help system type `help(hist)`