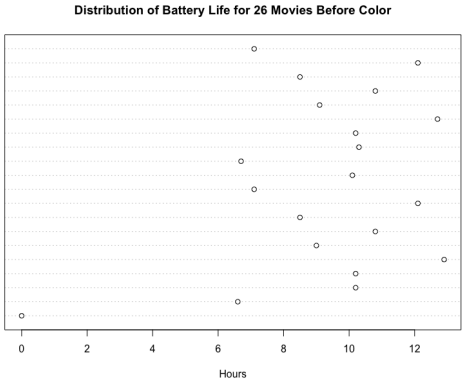
Graphics for Qualitative/Categorical DATA (MOL4)

1. Make a Dotplot of the DATA Battery_Life.xlsx:
   a. The title "Distribution of Battery Life for 26 Movies Before Color"
   b. X Label to units in hours
   c. Copy and paste your code (1 pt) and the resultant Dotplot here (1 pt) :
   Results:

```
> library(readxl)
> Battery_Life <- read_excel("Battery_Life.xlsx")
> View(Battery_Life)
> dotchart(Battery_Life$life_hr,main="Distribution of Battery Life for 26 Movies Befo
re Color", xlab="Hours")
```



2. Make a Stem-and_Leaf plot using the file Battery_Life.xlsx:
   a. Make a stem-and-leaf plot
   b. Copy and paste your code (1 pt) and the resultant Stem-and-Leaf plot here (1 pt) :
   Results:

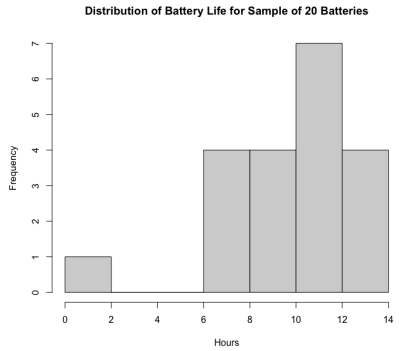
```
> stem(Battery_Life$life_hr)

  The decimal point is 1 digit(s) to the right of the |

  0 | 0
  0 | 77779999
  1 | 00000112233
```

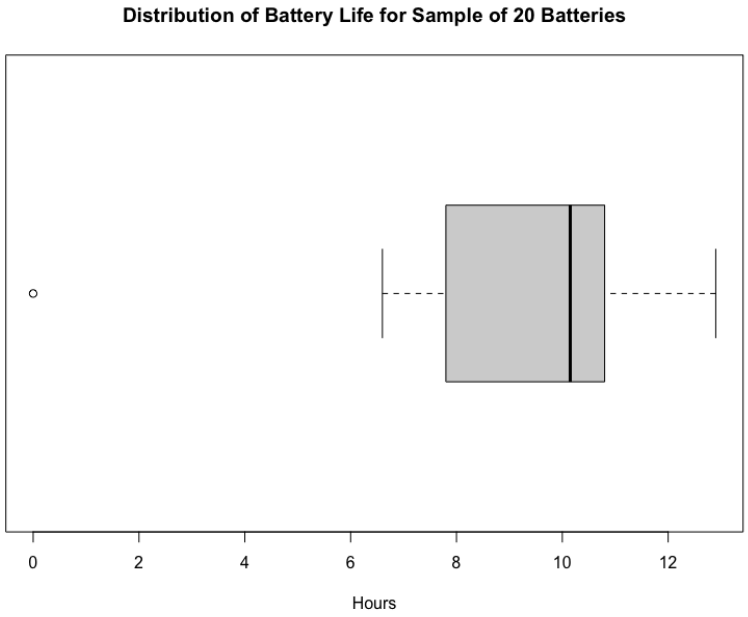
3. Make a histogram of the DATA Battery_Life.xlsx that is standard (including left endpoint) with about 5 bars:
    a. The title “Distribution of Battery Life for Sample of 20 Batteries”
    b. X Label hours
    c. Copy and paste your code (1 pt) and the resultant histogram here (1 pt) :
    Results:

```
> hist(Battery_Life$life_hr,breaks=5,right=FALSE,main="Distribution of Battery
    Life for Sample of 20 Batteries",xlab="Hours")
```



4. Make a boxplot (horizontal) of the DATA Battery_Life.xlsx:
    a. The title “Distribution of Battery Life for Sample of 20 Batteries”
    b. X Label hours
    c. Copy and paste your code (1 pt) and the resultant boxplot here (1 pt) :
    Results:

```
>boxplot(Battery_Life$life_hr,horizantal=TRUE,xlab="Hours",main="Distrib
    ution of Battery Life for Sample of 20 Batteries")
```



5. Make a probability plot of the DATA Battery_Life.xlsx with line:

a. The title “Probability Plot of Battery Life for Sample of 20 Batteries”

b. Copy and paste your code (1 pt) and the resultant probability plot here (1 pt) :

Results:

```
> qqnorm(Battery_Life$life_hr,main="Probability Plot of Battery Life for Sample of
    20 Battery")
> qqline(Battery_Life$life_hr)
```