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**R Assignment 1: Introduction to R and R Studio**

* **Please put your name in the upper left corner of this document.**
* **Make sure you copy and paste what is asked.**
* **Make sure you answer a question in a complete sentence. So, if you were asked, what is the median, you would answer, “The median is…”**

1. Input the following DATA as a vector:

To input raw data into R, you must create what is called a column vector (This is like putting data in an EXCEL column, but you do not see the spreadsheet):

* 1. Name the following DATA num1 and input as a vector in R Studio: (11,13,15,20,22,23,25)
  2. Name the following DATA num2 and input as a vector in R Studio: (22,24,27,19,16,31,21)
  3. Name the following DATA num3 and input as a vector in R Studio: (77,66,55,44,33,22,11)
  4. View all three DATA sets.

HELP for a, b, and c:

Here is the code that would put input DATA for num 1 in R (in blue), comments (in green, comments start with # and end when you hit return), and the output of R (in black):

#creating the column vectors num1

num1<-c(11,13,15,20,22,23,25)

# to view the values of num2

num1

[1] 11 13 15 20 22 23 25

Now it is time for you to do it for parts b, c, and d.

* 1. (6 pts) Copy and paste your code for parts a, b and c and their results in R here:

**> num1<-c(11,13,15,20,22,23,25)**

**> num1**

**[1] 11 13 15 20 22 23 25**

**> num2<-c(22,24,27,19,16,31,21)**

**> num2**

**[1] 22 24 27 19 16 31 21**

**> num3<-c(77,66,55,44,33,22,11)**

**> num3**

**[1] 77 66 55 44 33 22 11**

1. Upload the EXCEL file called BatteryLife using drop-down in R Studio as shown on PowerPoint.
   1. (1pts) How many data values do you see?

**I see 10 data values.**

* 1. Calculate the mean of these data values using the following code (copy and paste and put into R or you can type the code and you will see that R will help you input the correct file and variable name):

mean(BatteryLife$`BattLife(hrs)`)

(1pt) Copy and paste code and results here:

**> mean(BatteryLife$`BattLife(hrs)`)**

**[1] 9.47**

* 1. (2pt) What is the mean that is displayed?

**The mean battery life is 9.47 hours.**