Homework #1: String Fun

CS0004

Due: April 13th, at the begining of class

Instructions

Your program should work EXACTLY as follows: It should take in a string from the user (any string, there are no restrictions). It should then tell the user one of four things:

1. If the user's input either does not have an "R" (capital or lower-case) or does not have an "N" (capital or lower-case), tell the user that their string did not have an "R" and "N" in it.

2. If the user's string does have both an "R" (capital or lower-case) and "N" (capital or lower-case) and "N" came first (left-most) in the string, tell them this.

3. If the user's string does have both an "R" (capital or lower-case) and "N" (capital or lower-case) and "R" came first (left-most) in the string, tell them this.

4. If the user enters nothing, or just a bunch of spaces, tell the user that they entered nothing.

For instance, if the user entered "nor", the program should tell the user that "N" came befor "R". If the user entered "merriment", the program should tell the user that "R" came before "N". If the user enters "banana", the program should tell the user that their string did not contain both an "R" and an "N". Finally, if the user entered " ", the program should tell the user that they did not enter anything. The following need to be used for this homework:

- Function(s) and/or subprocedure(s)

- Decision statement(s) (If, If/Else, If/ElseIf/Else, and/or Select Case)

- For...Next, or Do Loop(s)

Modular programming will be enforced from this point on in the course. That means sub-problems in the project should habe their own functions or subprocedures. You will be graded on the following criteria:

- The use of the above required elements.

- The ability to successfully get user's string

- The ability to produce all four responses listed above under the correct circumstances

- The use of good coding practices, including but not limited to clear documentation, and modular design

- The ability to create an intuitive, easy to use, and organized interface

This is meant to be AN INDIVIDUAL ASSIGNMENT. You may talk to your classmates about the homework, but you are not to share code with each other. Also, taking large segments of code from other sources without citing is plagarism. The majority of this homework should be YOUR OWN ORIGINAL WORK. I reccomend getting a small storage device such as a flash drive to save your work on. You can get these for under $20 at any Radio Shack, and many other stores. When you are done submit your project by zipping up the project folder and FTPing it to the drop box for this course as described in class and here: http://www.cs.pitt.edu/~eth13/cs0004/submissionGuidelines.html. On the course webpage there is a grading rubric which I will be grading from. Keep this in mind while doing the project. Also on the course webpage there are examples of both regular and extra credit executable files for this project.