Homework #2: String Fun...with Arrays!

CS0004

Due: April 29th, at 11:59 PM

Instructions

The goal of this project is to expand your submission for Homework #1 to use arrays instead of having to use the SubString method for strings. See the guidelines for Homework #1 on the course webpage. In short, this is what I want you to do. I want you to convert the string that the user enters into a character array. Then I want you to loop over each character to find if there is both an "N" and an "R" and which is first. I expect the same output that was expected for Homework #1, but I want you to do it with a character array. In addition, I would like you to show another dialog box that tells how many "R"s and "N"s are in the string ONLY IF there is at least one of each in the string. One function that may be helpful to you is the Array.Reverse function. The following programming constructs must be in the project.

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

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

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

- Arrays

Modular programming will be enforced from this point on in the course. That means sub-problems in the project should have 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 ability to display to the user how many occurances of "N"s or "R"s are in the string, if there is at least one of eac

- 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.