CSE1322L - Lab 10

Objectives

- Get more practice writing recursive methods.

Tasks

Write the following methods and main drivers:

- Recursive method repeatNTimes
    - Takes in a string and an integer as parameters
    - Concatenates the string to itself the number of times indicated. Returns the resulting string.
    - For example, if passed “Hi”, 4. It would return “HiHiHiHi”. If passed “This is a test “,2, it would return “This is a test This is a test”.
    - If passed “Test”,0, it should return an empty string “”

- Recursive method isReverse
    - Takes in 2 strings as parameters
    - Returns a boolean indicating if the 2 strings have the same characters but reversed from eachother.
    - For example, if passed “Hello” and “olleH” it would return true
    - If passed “a” and “a” it would return true
    - If passed “Test” and “Test” it would return false.
    - 2 empty strings should be considered the reverse of each other.
    - Capitalization must also match. I.e. abcd and DCBA should return false.
    - You will may find the following methods helpful:
        - Java: string.length(), string.charAt(0), string.substring()
        - C#: string.Length, string[0], string.Substring()

- Main method:
    - Using the repeatNTimes method print out the string “I must study recursion until it makes sense\n” 100 times.
    - Next prompt the user for string 1 (e.g. s1), then prompt the user for string 2 (e.g. s2).
    - Call your isReverse method passing it the first and second strings entered by the user.
    - If they are the reverse print s1+” is the reverse of “+s2
    - If they the second is not the reverse of the first, print s1+” is not the reverse of “+s2

Sample Output:

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I must study recursion until it makes sense
I must study recursion until it makes sense
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I must study recursion until it makes sense
I must study recursion until it makes sense
I must study recursion until it makes sense

Enter the first string
abcd
Enter the second string
dcba
abcd is the reverse of dcba

**Separate run, ignoring the first 100 lines…**
Enter the first string
a
Enter the second string
a
a is the reverse of a

**Separate run, ignoring the first 100 lines…**
Enter the first string
abcd
Enter the second string
ddba
abcd is not the reverse of ddba

**Separate run, ignoring the first 100 lines.  Note here we are
hitting return for each string, which sends empty string**
Enter the first string

Enter the second string

 is the reverse of
```

Submission Guidelines:

You will turn in one program.

Please follow the posted submission guidelines here:
https://ccse.kennesaw.edu/fye/submissionguidelines.php

Ensure you submit before the deadline listed on the lab schedule for CSE1322L here:
https://ccse.kennesaw.edu/fye/courseschedules.php