

Strings Assignment – Manipulating with String Patterns

Due date: _____

Write a program which does the following. It will first give the user this menu:

1. Count a pattern
2. Eliminate a pattern
3. Substitute a pattern
4. Exit

Option 1:

If the user chooses #1, ask for a word or phrase and a SINGLE letter pattern. Display the number of times the pattern occurs in the word.

e.g. "banana", "a" --> 3
"BANana", "A" --> 3

Option 2:

If the user chooses #2, ask for a word or phrase and a SINGLE letter pattern. Display the word without the pattern.

e.g. "banana", "a" --> "bnn"
"BANana", "A" --> "BNn"

Option 3:

If the user chooses #3, ask for a word or phrase, a SINGLE letter search pattern, and a SINGLE letter replacement pattern. Display the word with the alterations.

e.g. "banana", "a", "o" --> "bonono"
"BANana", "A", "O" --> "BONOnO"

Option 4:

If the user chooses #4, quit the program.

*** YOU ARE ONLY ALLOWED TO USE THE STRING METHODS THAT I TAUGHT YOU!**

BONUS: (+1.5 marks)

Modify the program so that it properly handles NON-SINGLE LETTER patterns.

Example:

Option 1: "banana", "na" --> 2
Option 2: "banana", "na" --> "ba"
Option 3: "banana", "a", "aa" --> "baanaanaa"