

Programming Assignment #4

Summer 2013

CSc 3210

Due Wednesday, July 24th at 11:59 pm (late deadline – July 27th at 11:59 pm)

Write an efficient program to perform the following functions on input strings.

1. Ask the user to enter in a string of at most 15 characters.
2. Print out the length of the string
3. Print out if the string is a palindrome or not
4. Ask the user to provide a character
5. Print out the number of times the character is in the string
6. Ask the user if they want to repeat for a new string
7. If yes, then repeat steps 1-6, otherwise quit the program

Here is a sample output:

Please enter in a string of at most 15 characters: racecar
The length of the string is 7 characters
The string is a palindrome
Please enter a character: a
The character 'a' appears 2 times
Do you want to repeat for a new string (y/n): y

Please enter in a string of at most 15 characters: racingcar
The length of the string is 9 characters
The string is not a palindrome
Please enter a character: x
The character 'a' appears 0 times
Do you want to repeat for a new string (y/n): n
Goodbye

Note: Do not worry about validating user input. You can assume that the rules will be followed for testing.