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CPSC 1011-100 and CPSC 1010-002  
Lab08–Part2  
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Collaboration Statement: Erin Litzler, CPSC 1010-002

Include standard io library

Include ctype library

Include string library

Function prototype of Replace All function (entered string as input, input string length)

Function prototype of Convert to upper function (user command as input, input length of command)

Function prototype of prompt command function

Function prototype of Get String Length function (entered string as input)

Main

Declare user string

Declare string of proper command

Prompt user to enter string

Store inputted string in user string

Proper command = Call prompt command function

While proper command does not equal “QUIT”

If command string equals “REPLACE ALL”

Call Replace All function, with input user string

Proper command: Call prompt command function

Else:

Print “Sorry that command is invalid. Please type one of the options.”

Proper command = Call prompt command function

End of main

Void Function Replace All (input is entered string, input string length, input character to replace, input new character)

Declare new string

Declare string length

Declare character to replace string

Declare new character string

Print “Enter the character to replace:”

scan in and store character to replace

Print “Enter the new character: “

Scan in and store the new character

String length = call to get string length (input entered string)

For each character in length of entered string

If character equals character to replace

New string at character index = new character

Else

New string at character index = entered string at character index

Print “Your new sentence is new string

Char type Function Convert to Upper (input is user command, input is command length)

Declare upper case command string

For each character in command string

Convert character to uppercase

Return Upper Case command string

Char type function to prompt command

Declare command string

Declare formatted command string

Prompt user for command

Store inputted command in command string

Formatted command string = call to convert to upper function (input command string)

Return formatted command string

Int type function Get String Length (user string as input)

Declare string length

String length = string length of user string – 1

Return string length