CS 150 Lecture 5 Exercises

Complete each of the exercises below and upload to Canvas before the deadline..

A. Using substr - The Inside Out Function

Write a function named **insideOut()** that takes a **string** as an argument, and returns a new **string** where the middle character (if the **string** length is odd) has been removed and placed both at the beginning and end. If the **string** length is even, then the middle two characters are removed, with the first placed before, and the second placed after the **string**. If the length of the **string** is less than 3, then return to the original **string**.

For example:

**insideOut("Cartons") -> "tCaronst"**

**insideOut("camper")-> "mcaerp"**

**insideOut("it") -> "it"**

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B. Using find & substr - The Initials Funcion

Write a function named **initials()** that takes a **string** containing a person's name as an argument. Return a new **string** consisting of the person's initials. For instance, given my name, **"Stephen Dean Gilbert"**, the function will return **"SDG"**. You may assume that the name will have exactly three words. You will need to use **find()** and **substr()**.

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# C. Range Loops: *flipCase()*

Write a function **flipCase()** that takes a single **string** as an argument, and returns a new **string** where every lowercase character has been converted to uppercase, and vice-versa. Don't use any library functions at all. (This includes **size()**, **at()** or **[]**). The argument must not be modified or copied.

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# D. Range Loops & References: *toUpper()*

Write a **procedure** **toUpper()** that takes a **single** string as an argument, and modifies the **string** so that every lowercase character has been converted to uppercase. Don't use any library functions at all. (This includes **size()**, **at()** or **[]**). There is no return value. The argument will be modified.

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