CSC180 – Lab 5

1. Write a function which takes in two strings, and prints the one that’s longer. If the strings are the same length, print one of them (doesn’t matter which one). Don’t use any function that are defined in string.h for this question.

For example, printLonger("abc", "abcd") prints abcd

2. Write a function which takes in a string and converts each letter in the input string to lower case, except that the word CSC180 stays the way it is. For example, the input string "My FAvOurite cOURSE is CSC180, and here’s a random string of letters: fCSC180a"

should be changed to "my favourite course is CSC180, and here’s a random string of letters: fcsc180a"

Note that the second instance of CSC180 has been converted to lower-case, since it’s not a separate word. Test this function.

Here’s a function that converts upper-case letters to lower-case:

```c
int isUpperCase(char c)
{
    return ((c >= 'A')&&(c <= 'Z'));
}

char toLowerCase(char c)
{
    if(isUpperCase(c)){
        return c+ 'a' - 'A';
    }
    return c;
}
```

3. Write a function which takes in an array of integers and its size and returns 1 if the array is sorted in ascending order and 0 otherwise. For example, {5, 7, 10, 23} is sorted in ascending order, and {4, 2, 1} and {5, 4, 6} aren’t. For example

```c
int arr[] = {5, 7, 10, 23};
printf("%d\n", isSortedAcending(arr));
```

prints 1.