

Lab Assignment 10 - 04/02/2009

Name: _____

Section: 8:00 11:00 12:30 6:30

Problem 1: String Manipulation

For this problem, you will create a file `stringtest.c` and write the `main` method to perform the following actions. (Hint: after each bullet, compile and run your program to be sure your code is correct to that point.)

- Create a string buffer of size 100.
- Input a string from the user using `scanf`
- Convert all lower-case letters to upper-case by using a `for` loop, and doing the following at each iteration:
 1. Check if the character value is between 'A' and 'Z'
 2. If so, add ('a'-'A') to that position (convert to lowercase).
 3. Otherwise, check if the character value is between 'a' and 'z'.
 4. If so, add ('A'-'a') to that position (convert to uppercase).
 5. Characters that do not fit in these intervals can be ignored.
- Print the string using `printf`.

Sample Input/Output (the user types any numbers following a colon)

```
Give me a string: Hello!  
Your converted word: hELLO!
```