COEN 10 Lab 10

❖Your code will

- ◆ Read words from the keyboard,
- Place them in a string array,
- Execute some tasks on the array

- Task 1: Input up to 10 words
 - ◆ Keep track of the number of words
 - ^D will stop the input
 - Check the value returned by scanf
 - Insert the words in alphabetical order in the array, one by one
 - Use strcmp to find the right place and open a slot by shifting the other elements down
 - ◆Show the words in the array

- ❖ Task 2: Reverse the array
 - ◆Swap the strings
 - Use strcpy and a temp array
 - Show the words in the array

- Task 3: convert all lowercase letters to uppercase letters
 - Use a pointer to traverse each string
 - Calculate the length as the strings are traversed
 - Fill up the length array
 - ◆Use islower (), toupper ()
 - You may need to include a .h file
 - ◆Show the words in the array

- Task 4: show the following info about the words
 - ◆Shortest and longest words
 - Show the first shortest and the first longest
 - Use info in the length array
 - Average length of the words
 - Use info in the length array
 - Words starting with something other than a letter
 - Use isalpha ()

Requirements

- ◆Global variables
 - string array
 - length array
 - counter

♦Functions to

- Input and show
- Reverse and show
- Convert to uppercase and show
- Calculate and show info
- Output the array

Demo

- ◆ Execute the program on the terminal to the TA
- ◆Show the TA how the program handles
 - Input with less than 10 words
 - Input with 10 words
 - Input with more than 10 words

Submit

- ◆Upload to Camino
- Don't forget to put your name on it!