

Homework #4: Due October 26**Overview**

In this assignment, you will need to write a program that use command-line arguments, and will manipulate these arguments.

The program will take in any number of C-String arguments as its command-line arguments. (That is, you will leave the command-line arguments as C-Strings).

Instructions

1. Your program should call a function to print out all of the command-line arguments (except for the program name).
2. Your program will use a bubble sort to sort the array of C-strings in alphabetical order (except for the program name.) You must use (one of) the swap functions described in class in your implementation.
3. Your program should then print out the sorted array.
4. Your program should then find and display the median C-string, i.e., the C-string in the middle of the array.
5. Your program should find and display the average length of all of the C-strings in the array.

Functions you will need to write

```
void print(const char** words, int numWords);  
void swap(char** stringP1, char** stringP2);  
void bubblesort(char** words, int numWords);  
char* findMedianWord(const char** words, int numWords);  
double findAverageLength(const char** words, int numWords);
```