

Lab #1

CS-2050 - Section C

Week of January 25, 2021

1 Requirements

This lab is intended to test your ability to pass variables by reference, and is also a review of file IO.

1.1 main

You are provided with a *partially completed* main function, which you must finish.



Info: The main function of this program reads test data from a file into an array, and then passes the data to a function for analysis. The file IO portion of the program has been provided as starter code, and you must write the function call in order to complete the main() function.

1.2 avgBetween

```
int avgBetween(double *array, int size, double *result, long floor, long ceiling);
```



Info: This function takes a *double* array and the size of the array as parameters, and searches the array for the average of the data that is **between** the provided floor and ceiling. The function returns *1* on success and *0* if the data does not contain a number within the provided range. The result of this analysis must be placed into the result variable.

2 Notice



Grading:

1. Complete main function
 - * 3 points
2. Write required function: avgBetween
 - * 5 points



Notice:

1. All of your lab submissions must compile under GCC using the *-Wall* and *-Werror* flags to be considered for a grade.
2. You are expected to provide proper documentation in every lab submission, in the form of code comments. For an example of proper lab documentation and a clear description of our expectations, see the lab policy document.