

# Lab #1

CS-2050 - Section D

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 avgBefore

```
int avgBefore(float *array, int size, float *result, int beforeIndex);
```



**Info:** This function takes a *float* array and the size of the array as parameters, and searches the array for the average of the data that is **before** the provided index. 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: avgBefore
  - \* 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.