CS2050 – Lab 1
Summer 2023

Requirements

In this lab, you will cover pass by reference, and using error codes. Each function has an associated error code, and one or more possible error conditions. You should consider when errors might occur that make completion of your function's goal impossible and return the specified error code when they occur.

1.1 getAverage

```
int getAverage(int array[], int size, float *result)
```

Info: This function takes an array, as well as the size of the array. It calculates the average of the array, if possible, and places the average in the result pointer provided. It returns 0 on success, or 1 on failure.

1.2 sumPositive

```
int sumPositive(int array[], int size, int *result)
```

Info: This function takes an array, as well as the size of the array. It calculates the sum of the positive numbers in the array, if possible, and places the sum in the result pointer provided. It returns 0 on success, or 1 on failure.

Submission Information

Submit this assignment by uploading your lab1.c file to Canvas **and** by using the mucsmake command. We are testing the mucsmake command and so we need the lab to be submitted in both ways.

Use the following submit command on tc.rnet:

mucsmake <assignment> <filename>

For example:

mucsmake lab1 lab1.c

Rubric: 6 points

1. Write required *getAverage* function
   * 3 points
2. Write required *sumPositive* function
   * 3 points

Notice:

1. Do NOT change the given function prototype.
2. All of your lab submissions must compile under GCC using the *−Wall* and *−Werror* flags to be considered for a grade.
3. 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.