# CMIS242 Project 1 Test Cases

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## Goal

The goal of my test cases was to test the basic functionality of the Project1 and Weight classes: accepting a formatted file of weights and returning the min, max, and average of the weights in the file. I also included an edge case and an error case to test error handling and messaging.

## Test Cases

### Test Case 1 – 10 Weights

This test case used a file with 10 weights listed to ensure that the code worked without a full array (i.e. 25 weights). Due to the use of the count parameter in the static methods, I expected this to have no issues and return the min, max, and average of the 10 weights.

### Test Case 2 – 25 Weights

This test case used a file with 25 weights listed to ensure the code worked with a full array (i.e. 25 weights). I expected this to have no issues and return the min, max, and average of the 10 weights.

### Test Case 3 – 30 Weights

This was an error test case with a file with 30 weights listed to ensure the code would return an error message and exit. I expected this test case to return the message “The file selected has more than 25 weights” and exit.

### Test Case 4 – 1 Weight

This was an edge test case with a file with 1 weight listed to ensure the code will still work even if there was only 1 weight listed. I expected this test case to return the min, max, and average as the only weight in the file.

### Test Case 5 – 0 Weights

This was an error test case with a file with 0 weights listed to ensure the code would return an error message and exit. I expected this test case to return the message “The file selected is empty” and exit.

## Results

The test cases with their expected outputs, actual outputs, and status are listed in the table below.

