**Program 8**

**CISP 1010 – Fall 2020**

**Test Scores #1** Write a program that allocates an array large enough to hold a user-defined number of test scores. Once all the scores are entered, the array should be passed to a function that sorts them in ascending order. Another function should be called that calculates the average score. The program should drop the lowest grade before determining the average. The program should display the sorted list of scores and averages with appropriate headings to a file. Input Validation: Do not accept negative numbers for test scores.

**Test Scores #2**  Modify the program above to allow the user to enter name-score pairs. For each student taking a test, the user types the student's name followed by the student's integer test score. Modify the sorting function so it takes an array holding the student names and an array holding the student test scores. When the sorted list of scores is displayed, each student's name should be displayed along with his or her score. Put this data to a file appropriately formatted. Assure that the proper name goes with the proper score by making the array subscripts match when printing.

Modify the programs so that they read the data from a file.

Main program

Calls

* + Function to read the data
  + Function to display unsorted data
  + Function to sort the data
  + Function to calculate the average
  + Function to display sorted data

You should create a source that contains all of the search and sort routines that I gave you. Include a header file to hold all of the prototypes and libraries that you need to use. Put this into the project.