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Lab 6

Problem statement:

Write a program that has the student year around grades, and sort them and print them out. Also shows stats like highest/lowest grade average and class size.

Output:

Class Size 28

highest score ID: 26129 Score: 81 Letter grade: B

Lowest score ID: 18205 Score: 61 Letter grade: D

Exam 1 average: 72

Exam 2 average: 72

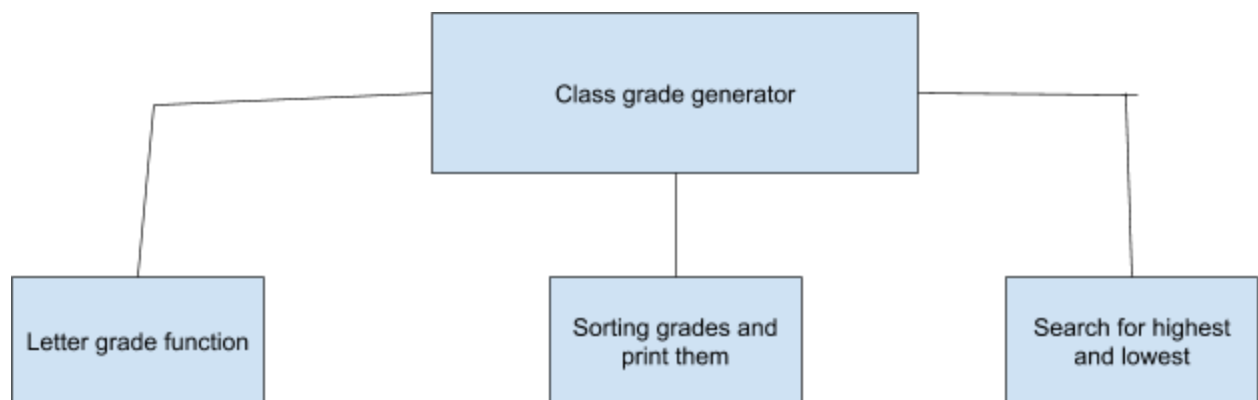
Exam 3 average: 70

Final average: 76

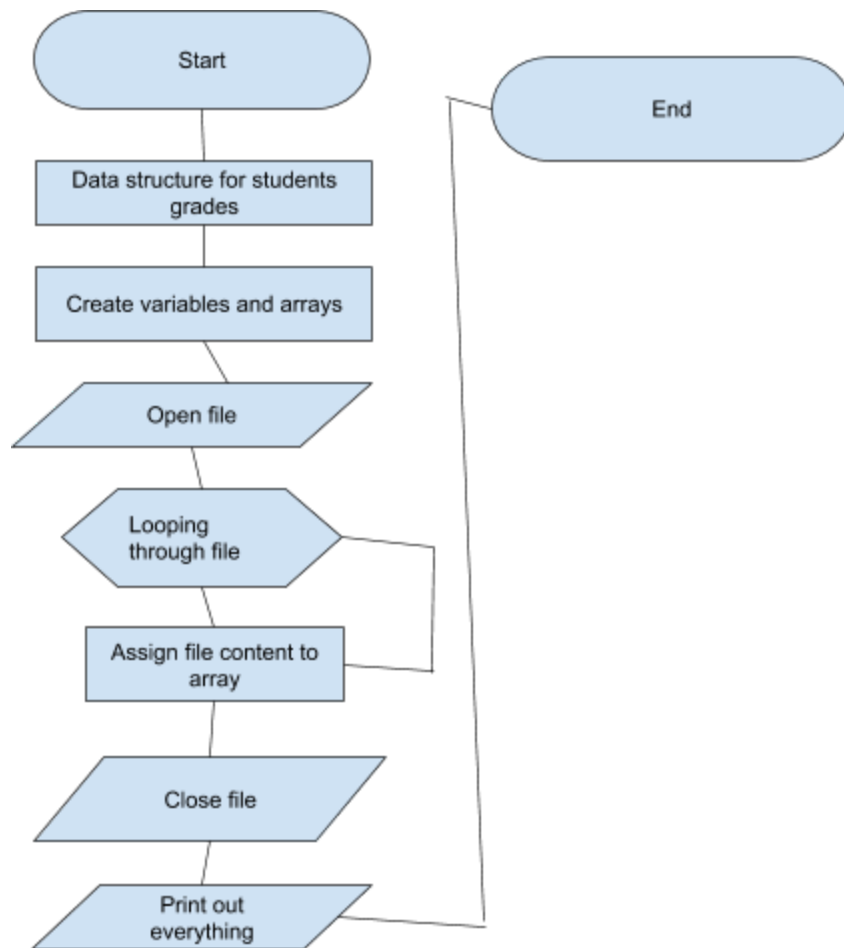
Labs average: 68

Quizzes average: 70

Flowchart:



Flowchart and pseudocode



1. Start Program.
2. Initialize data structure.
3. Create variables and arrays.
4. Open file.
5. Loop through the file.
6. Assign file content to the array.
7. Close the file.
8. Print out everything.
9. End the program.

Flowchart pseudocode for letter grade generator

[illegible]

[illegible]

Output:

User instruction:

Put a input file call dataset, then use ./lab06 to run the program. And File call grades will appear with grades for the students. And the program will print lowest score and highest score, and the average grades for exams, the final, quizzes, and labs.

Comments:

It was kinda fun to make, because it was challenging and it using concept like that was more difficult. It was a simple project, but it was really challenging.