CSCD 240 Lab 8

Write a program that reads in Lab scores, Homework scores, Quiz scores and Exam scores and then produces a weighted average. The weighted average will be based on what percent each of the stated categories. When the percentages of each category are added, they total 100%. All scores will be given on a 0 to 100 point basis.

Presume the following about each category:

Homeworks

• 30% of the course grade

Labs

• 20% of the course grade

Quizzes

• 11% of the course grade

Exams

• 39% of the course grade

Sample input (parenthesis denote the type):

Stu Steiner 89 95 85 75 85 90 95 55 90 (Labs) 90 85 88 100 30 (Homework) 99 100 98 76 80 85 (Quizzes) 56 85 95 (Exams)

- You may presume all points for labs, homework, quizzes and exams will be positive.
- You must ensure the totals for each category is greater than 0.
- The name may contain spaces.
- MAX is set to 100.
- TOTAL is set to 10.
- Once the array has been filled, report the percentage earned in each category followed by the weighted percentage after 2 decimal points the value will be rounded up.
- Report the Grade Point for the course based on the following formula:

4.2 - ((100 - Avg. Percentile Score) / 12)

No grade is ever rounded up

Modified Sample Run removed all the user input prompts

Student Name: Stu Steiner

89 95 85 75 85 90 95 55 90 (These were the entered values displayed this way for space)

Lab Average – 84.3%

90 85 88 100 30 (These were the entered values displayed this way for space)

Homework Average – 79.6%

99 100 98 76 80 85 (These were the entered values displayed this way for space)

Quiz Average – 89.7%

56 85 95 (These were the entered values displayed this way for space)

Exam Average - 78.7%

Your weighted percentage is: 81.3%

Your final grade is: 2.7

Specifics

- cscd240Lab8.c will contains my main() you may not change main but you will add your code in the functions at the bottom of the file
- You must use static arrays
- You must use stdin if you use a FILE * you will receive 0 points
- All input scores will be integer values

To Turn In

A zip file containing:

- Containing all files necessary to compile and grade your code
- Include comments at the top of **your** functions source file that has your name, a description of the program, and a list of known but unsolved problems (if any).
- An output capture named cscd240lab8out.txt
- A Makefile with a target of lab8

Your zip will be named your last name first letter of your first name lab8.zip (Example: steinerslab8.zip)