Lab11 – Structures

On Nov. 29th

1. Write a program “studentinfo.c” that receives 5 students’ name and exam score and prints out the top-1 and top-2 students’ name. Use structure to store students’ information. The maximum length of the students’ name is 50:

Name:	David Lee
Score:	75
Name:	Rachel Fox
Score:	60
Name:	Samuel Kim
Score:	96
Name:	Nancy Beatty
Score:	77
Name:	Chris Brown
Score:	85
Top-1:	Samuel Kim
Top-2:	Chris Brown

2. Modify “studentinfo.c” program as follows.

Store students’ first and last name separately using ‘student_name’ structure:

```
struct student_name {
        char first[30];
        char last[30];
};
```

Receive exam scores of three subjects and compute the average score of each subject among 5 students.
Print out the first name of all outstanding students who obtained the exam score that is greater than the average score of each subject. If no such student exists, print out “none”. If there are multiple outstanding students, sort them by the average score of the three subjects in a descending order.

Name:	David Lee
Score:	75 89 91
Name:	Rachel Fox
Score:	60 100 70
Name:	Samuel Kim
Score:	96 95 95
Name:	Nancy Beatty
Score:	77 78 100
Name:	Chris Brown
Score:	85 94 91
Outstanding student:	Samuel Chris

Name:	David Lee
Score:	75 50 90
Name:	Rachel Fox
Score:	60 95 34
Name:	Samuel Kim
Score:	96 50 30
Name:	Nancy Beatty
Score:	77 100 74
Name:	Chris Brown
Score:	85 84 55
Outstanding student:	none