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All Contests ❯ 22_PPS1_Lab11 ❯ Sort students based on marks

Sort students based on marks

🔒 locked

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```
typedef struct
{
    int id;
    char name[20];
    int marks[3];
    int total_marks;
}student;
```
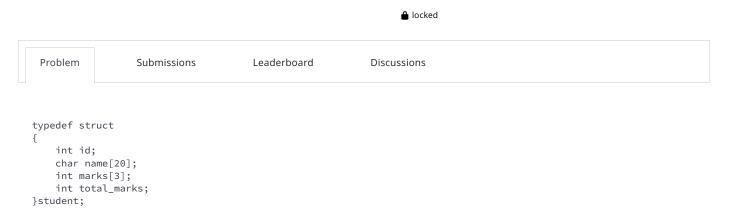
Use array of given structure to scan the data of students given in the input.

Then print data stored in that array to get the desired output as shown in test cases.

We are not advicing you on how to divide your program into functions. We are assuming that by now you are clever enough to divide your logic into multiple functions instead of writing entire program into main function.

Input Format

Input will contain n + 1 lines.

First line will have number of students (n).

Next n lines will have information of each student. (in sequence – id, name, marks of three subjects). Each field will be separated by space.

Constraints

0 < n <= 1000

0 < id <= 1000

0 < number of chars in name <= 19

0 <= marks of each subject <= 100

Output Format

Output should have n + 1 lines. n is the number of students.

First line should have value of n.

Next n lines should have name, id, total marks (separated by space) of each student from input.

Output should be sorted in descending order based on total marks.

When total marks of two or more students are same, then in output they should appear in same sequence as input.

Sample Input 0

```
4
12 Rahul 89 87 93
1 Karan 78 71 67
3 Ahmed 81 88 93
5 Ashok 11 8 0
```

Sample Output 0

```
4
Rahul 12 269
Ahmed 3 262
Karan 1 216
Ashok 5 19
```

Submissions: 114
Max Score: 10
Difficulty: Hard

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C ⌄

```c
1  #include <stdio.h>
2  #include <string.h>
3  #include <math.h>
4  #include <stdlib.h>
5
6  typedef struct
7  {
8      int id;
9      char name[20];
10     int marks[3];
11     int total_marks;
12 }student;
13
14 int main() {
15
16     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
17     return 0;
18 }
```

Line: 1 Col: 1

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code