

### C. The Grades

time limit per test: 1 second  
memory limit per test: 256 megabytes  
input: standard input  
output: standard output

You have  $N$  friends each of them you know his name and the grades of Arabic, Maths, Science, and English.

you need to sort your friends according to these conditions:

- If the absolute difference between the total grades is greater than 10, then you have to put the person with a higher grade in the first.
- Otherwise you have to compare their names such that the friend with the smallest lexicographically name will be in the first.

#### Input

The first line of input an contains integer  $N$  ( $1 \leq N \leq 10^5$ ).

Then next  $N$  lines, the  $i_{th}$  line contains string  $Name$  ( $1 \leq |Name| \leq 10$ ) the name of the  $i_{th}$  firnd,its guaranted that all  $N$  names are distncet, and Four integers  $A,M,S,E$  ( $1 \leq A, M, S, E \leq 100$ ) the grades of Arabic, Maths, Science, and English respectively of the  $i_{th}$  frind.

#### Output

Print  $N$  lines, the  $i_{th}$  contains the name and the grades of Arabic, Maths, Science, and English of the  $i_{th}$  friend in this order after the sorting.

#### Example

inputCopy

7  
Hussien 95 75 65 85  
Hafez 98 57 75 68  
Omar 77 68 75 64  
Atef 56 97 75 94  
Karemo 60 91 98 70  
Ezzat 72 83 69 95  
Muhammad 98 97 57 95

outputCopy

Muhammad 347 98 97 57 95  
Atef 322 56 97 75 94  
Ezzat 319 72 83 69 95  
Hussien 320 95 75 65 85  
Karemo 319 60 91 98 70  
Hafez 298 98 57 75 68  
Omar 284 77 68 75 64

#### ICPC Assiut University Training - Standard - Juniors Phase 1

Public

Participant

#### → Group Contests

- Standard #5 (Bits , bit-masking )
- Standard #4 (Binary search , two pointers )
- Standard #3 (set , sorting, compare function , map )
- Standard #2 (binary search , stack , queue, deque , priority queue)
- Standard #1 (Frequency , prefix sum , vector , pair ,struct)

#### Standard #3 (set , sorting, compare function , map )

Finished

Practice

#### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

#### → Submit?

Language: GNU G++20 11.2.0 (64 bit, w

Choose file: Choose File No file chosen

Submit

#### → Last submissions

Submission	Time	Verdict
<a href="#">226574178</a>	Oct/04/2023 13:56	Accepted
<a href="#">226573916</a>	Oct/04/2023 13:53	Wrong answer on test 1