## **ICPC Assiut University Community**

**Juniors Phase 1 Training ,Do Your Best** 



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP ICPC CHALLENGE 🖫

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

## 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 ( $1 \le N \le 10^5$ ).

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



## <u>ICPC Assiut University Training -</u> <u>Standard - Juniors Phase 1</u>

#### **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**

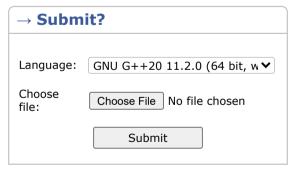
### **Practice**



## → 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



→ Last submissions		
Submission	Time	Verdict
226574178	Oct/04/2023 13:56	Accepted
226573916	Oct/04/2023 13:53	Wrong answer on test 1