

## F. Technical Issue

time limit per test: 6 seconds  
 memory limit per test: 256 megabytes  
 input: standard input  
 output: standard output

After Al-Fursan Contest was over, Doctor Ashraf asked Hasan to give him the name of the winner from the sorted scoreboard. But there was a technical issue that made some of the entries in the scoreboard get out of order. As the rules of ACM contests state, the winner is the team that solves the highest number of questions. If there is a tie, then the team with the minimum total time wins. Help Hasan find the winner

### Input

The first line of input contains a single integer  $T$  that represents the number of test cases.

The first line of each test case contains an integer  $N$  ( $1 \leq N \leq 10^5$ ) that represents the number of teams participating in the contest. Each of the following  $N$  lines contains the following:

$X_i$ : The team name, a string of no more than 10 lowercase letters and/or digits.

$Y_i$ : The number of questions solved by the team ( $1 \leq Y_i \leq 15$ ).

$Z_i$ : The total time taken by the team ( $1 \leq Z_i \leq 10^9$ ).

It's guaranteed that there is always one winner.

### Output

For each test case, print the name of the winning team on a single line.

### Example

input

```
2
4
team1 4 720
team2 5 940
team4 2 1203
team9 1 43
2
earlgrey 7 982
shai 7 981
```

output

```
team2
shai
```

### ICPC Assiut Advanced Newcomers 2023

Private

Participant



#### → Group Contests

- ICPC Assiut Advanced Newcomers 2023 Contest 5
- ICPC Assiut Advanced Newcomers 2023 Contest 4
- ICPC Assiut Advanced Newcomers 2023 Contest 3
- ICPC Assiut Advanced Newcomers Practice #1
- ICPC Assiut Advanced Newcomers 2023 Contest 2
- ICPC Assiut Advanced Newcomers 2023 Onsite Contest 2
- ICPC Assiut Advanced Newcomers 2023 Contest 1
- ICPC Assiut Advanced Newcomers 2023 Onsite Contest 1

### ICPC Assiut Advanced Newcomers 2023 Contest 4

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)