Give Current Max

Problem	Submissions	Leaderboard	Discussions

Problem Statement

You will be given a list A of size N. The list will contain data of some students where each student have $Name$, $Roll$ and $Marks$. Then you will be given Q queries, for each query there will be some commands. Commands are given below -

1. $0\ X$ -> Insert X into the list where X is the data of a student which contain $Name$, $Roll$ and $Marks$. Then print the current student's data who has the maximum $Marks$ from the list.

2. 1 -> Print the current student's data who has the maximum $Marks$ from the list.

3. 2 -> Delete the student who has the maximum $Marks$ from the list and print the current student who has the maximum $Marks$ from the list.

Note: If there are multiple students with same $Marks$ then we will select whose $Roll$ is smaller. If the list is empty and you can't print anything then you should print "Empty".

Input Format

- First line will contain N.

- Next N lines will contain $Name$, $Roll$ and $Marks$ of student A_i.

- Third line will contain Q.

- Next Q lines will contain the commands.

Constraints

1. $1 \leq N + Q \leq 10^5$

2. $1 \leq |Name| \leq 1000$, $Name$ will contain only English lowercase letters and will not contain any spaces.

3. $0 \leq Roll \leq 10^5$

4. $0 \leq Marks \leq 100$

Output Format

- For each command, print as asked from the list.

Sample Input 0

```
3
akib 23 95
jobbar 24 99
ali 25 100
8
1
2
2
2
0 kabir 15 65
0 asif 55 65
2
0 tamim 35 65
```

Sample Output 0

```
ali 25 100
jobbar 24 99
akib 23 95
Empty
kabir 15 65
kabir 15 65
asif 55 65
tamim 35 65
```

C++20

```cpp
1  #include <bits/stdc++.h>
2
3  using namespace std;
4
5
6
7  int main()
8  {
9      // Write your code here
10
11      return 0;
12  }
13
```

Line: 1 Col: 1

⬆ Upload Code as File   ☐ Test against custom input

Run Code   Submit Code