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LIVE EVENTS

Code Chronicles

Sep 10, 2018, 06:00 PM IST - Sep 13, 2018, 12:00 AM IST

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Priority Interview

Max. Marks: 30

The challenge is over and this problem has been moved to practice area. You can either submit your solution here or [Go to Practice Area](#). Also further submissions won't affect the leaderboard.

[PROBLEM](#)[EDITORIAL](#)[MY SUBMISSIONS](#)

Microsoft has come to hire interns from your college. N students got shortlisted out of which few were males and a few females. All the students have been assigned talent levels. Smaller the talent level, lesser is your chance to be selected. Microsoft wants to create the result list where it wants the candidates sorted according to their talent levels, but there is a catch. This time Microsoft wants to hire female candidates first and then male candidates.

the task is to create a list where first all female candidates are sorted in a descending order and then male candidates are sorted in a descending order.

Input Format

The first line contains an integer N denoting the number of students. Next, N lines contain two space-separated integers, a_i and b_i .

The first integer, a_i will be either 1(for a male candidate) or 0(for female candidate).

The second integer, b_i will be the candidate's talent level.

Constraints

$$1 \leq N \leq 10^5$$

$$0 \leq a_i \leq 1$$

$$1 \leq b_i \leq 10^9$$

Output Format

Output N space-separated integers, which first contains the talent levels of all female candidates sorted in descending order and then the talent levels of male candidates in descending order.

SAMPLE INPUT



```
5
0 3
1 6
0 2
0 7
1 15
```

SAMPLE OUTPUT



?

7 3 2 15 6

Time Limit: 5.0 sec(s) for each input file.

Memory Limit: 256 MB

Source Limit: 1024 KB

Marking Scheme: Marks are awarded if any testcase passes.

Allowed Languages: Bash, C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1, Visual Basic

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CODE EDITOR

Enter your code or [Upload your code](#) as file.

[Save](#)

Bash (GNU bash, version 4.3 ▾)



```
1 # Sample bash code
2
```

1:1

☒ Provide custom input

COMPILE & TEST

SUBMIT

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