Nested Lists ☆

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Problem Submissions Leaderboard Editorial Tutorial

Given the names and grades for each student in a Physics class of N students, store them in a nested list and print the name(s) of any student(s) having the second lowest grade.

Note: If there are multiple students with the same grade, order their names alphabetically and print each name on a new line.

Input Format

The first line contains an integer, N, the number of students.
The $2N$ subsequent lines describe each student over 2 lines; the first line contains a student's name, and the second line contains their grade.

Constraints

- $2 \leq N \leq 5$
- There will always be one or more students having the second lowest grade.

Output Format

Print the name(s) of any student(s) having the second lowest grade in Physics; if there are multiple students, order their names alphabetically and print each one on a new line.

Sample Input 0

```
5
Harry
37.21
Berry
37.21
Tina
37.2
Akriti
41
Harsh
39
```

Sample Output 0

```
Berry
Harry
```

Explanation 0

There are 5 students in this class whose names and grades are assembled to build the following list:

```
python students = [['Harry', 37.21], ['Berry', 37.21], ['Tina', 37.2], ['Akriti', 41], ['Harsh', 39]]
```

The lowest grade of **37.2** belongs to Tina. The second lowest grade of **37.21** belongs to both Harry and Berry, so we order their names alphabetically and print each name on a new line.

Python 3

```
if __name__ == '__main__':
    n = int(input())
    arr = [[input(), float(input())] for _ in range(n)]

    c = sorted(set([b for a,b in arr]))[1]

    print ('\n'.join(sorted([a for a,b in arr if b == c])))
```

Line: 6 Col: 1

Upload Code as File Test against custom input Run Code Submit Code

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