

Nested Lists

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Tutorial

Given the names and grades for each student in a 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 second lowest grade, order their names alphabetically and print each name on a new line.

**Example**

```
records = [["chi", 20.0], ["beta", 50.0], ["alpha", 50.0]]
```

The ordered list of scores is `[20.0, 50.0]`, so the second lowest score is `50.0`. There are two students with that score: `["beta", "alpha"]`. Ordered alphabetically, the names are printed as:

```
alpha
beta
```

**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.
- 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. 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.

Author

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Difficulty

Easy

Max Score

10

Submitted By

410044

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```
1  if __name__ == '__main__':
2      arr = []
3      for _ in range(0,int(input())):
4          name = input()
5          score = float(input())
6          arr.append([score, name])
7          arr.sort()
8          arr1 = [i for i in arr if i[0] != arr[0][0]]
9          arr2 = [j for j in arr1 if j[0] == arr1[0][0]]
10
11         arr2.sort(key=lambda x: x[1])
12         for i in range(len(arr2)):
13             print(arr2[i][1])
```

Line: 6 Col: 12

Upload Code as File

Test against custom input

Run Code

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Python

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14%

245/400

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Test case 3

Test case 4

Test case 5

Test case 6

Test case 7

Test case 8

Test case 9

Compiler Message

Success

Input (stdin)

```
1 5
2 Harry
3 37.21
4 Berry
5 37.21
6 Tina
7 37.2
8 Akriti
9 41
```

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