



# Nested Lists ☆

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## Problem

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## 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.

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Python 3



```
1  marksheet=[]
2  scoresheet=[]
3  if __name__ == '__main__':
4      for _ in range(int(input())):
5          name = input()
6          score = float(input())
7          marksheet+=[[name,score]]
8          scoresheet+=[score]
9      x=sorted(set(scoresheet))[1]
10     for n,s in sorted(marksheet):
11         if x==s:
12             print(n)
13
14
15
```

Line: 12 Col: 20

[Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

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88%

105/110



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✓ Test case 0

✓ Test case 1

✓ Test case 2

✓ Test case 3

✓ Test case 4

✓ Test case 5

✓ Test case 6

Compiler Message

Success

🔒 Hidden Test Case

Unlock this testcase for 5 hackos.

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