



# 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

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

## Sample Output

```
Berry
Harry
```

## Explanation

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

```
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.





Submissions: 12849

Max Score: 10

Difficulty: Easy

Rate This Challenge:

★★★★★ Thanks!

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```
1 # Enter your code here. Read input from STDIN. Print output to STDOUT
2
3 n = input()
4 names = list()
5 grades = list()
6 output = list()
7
8 for i in range(0,n):
9     names.append(raw_input())
10    grades.append(input())
11
12 copy_grades =list(grades)
13 copy_grades.sort()
14 temp_n = n
15
16 first = copy_grades[0]
17 while first == copy_grades[0]:
18     copy_grades.pop(0)
19     temp_n = temp_n-1
20 first = copy_grades[0]
21
22 for i in range(0,n):
23     if(first==grades[i]):
24         output.append(names[i])
25
26 output.sort()
27 len = len(output)
28
29 for i in range(0,len):
30     print (output[i])
```

Line: 30 Col: 22

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

Run Code

Submit Code

**Congrats, you solved this challenge!**

✓ Test Case #0

✓ Test Case #3

✓ Test Case #6

✓ Test Case #9

✓ Test Case #1

✓ Test Case #4

✓ Test Case #7

✓ Test Case #2

✓ Test Case #5

✓ Test Case #8

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