



Ordering the Team

Problem

Submissions

Leaderboard

Discussions

There are n students who want to form a team for a contest. Each student has 3 skills - hard work, intelligence and persistence.

You want to check whether it is possible to order these people in such a way that for each $1 \leq i \leq n-1$, $(i+1)^{\text{th}}$ person is strictly better than the i^{th} person.

A person x is said to be better than another person y if x doesn't score less than y in any of the skills and scores more than y in at least one skill.

Determine whether such an ordering exists.

Input Format

n

A_1, B_1, C_1

A_2, B_2, C_2

...

A_n, B_n, C_n

A_i, B_i, C_i denote the skills of the i^{th} person.

Constraints

$1 \leq n \leq 10$

$1 \leq A_i, B_i, C_i \leq 1000$ for all valid i .

Output Format

Yes if a valid ordering is possible. Otherwise, **No**.

Sample Input 0

```
3
2 3 5
1 2 3
2 3 4
```

Sample Output 0

Yes

Explanation 0

Order the students as (1, 2, 3), (2, 3, 4), (2, 3, 5) and we are done.

Sample Input 1

```
3
1 2 3
```

2 3 4
2 3 4

Sample Output 1

No

Explanation 1

The second and third students cannot be ordered properly.

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Contest ends in a day

Submissions: 188


Max Score: 40

Difficulty: Medium

Rate This Challenge:

☆☆☆☆☆

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Current Buffer (saved locally, editable)  

C++14  

```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

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

Run Code

Submit Code