

Statement

Hints

Submissions

Solution

Ask a Doubt

Problem

There are three people sitting in a room - Alice, Bob, and Charlie. They need to decide on the temperature to set on the air conditioner. Everyone has a demand each:

- ullet Alice wants the temperature to be at least A degrees.
- ullet Bob wants the temperature to be at most B degrees.
- ullet Charlie wants the temperature to be at least C degrees.

Can they all agree on some temperature, or not?

Input Format

- The first line of input will contain a single integer T, denoting the number of test cases.
- $\bullet\,$ Each test case consists of a single line which contains three integers A,B,C.

Output Format

For each test case, output on a new line, "Yes" or "No". "Yes", if they can decide on some temperature which fits all their demands. Or "No", if no temperature fits all their demands.

Statement	Hints	Submissions	Solution	Ask a Doubt	
- Cubecak 1 /10		< 10			
	points): $1 \le M$ points): The sum	\succeq 10 n of N across all tes	t cases won't exc	ceed 20.	
	25.	ther constraints.			

Sample 1:

Input	<u>_</u>	Output	6
4		Yes	
30 35 25		No	
30 35 40		Yes	
30 35 35		No	
30 25 35			

Explanation:

Test Case 1: Alice wants the temperature to be ≥ 30 , Bob wants it to be ≤ 35 , and Charlie wants it to be ≥ 25 . The temperatures 30, 31, 32, 33, 34, 35 all satisfy all their demands. So they can choose any of these 6 temperatures, and so the answer is "Yes".

Test Case 2: Alice wants the temperature to be ≥ 30 , Bob wants it to be ≤ 35 , and Charlie wants it to be ≥ 40 . A number can't be both ≥ 40 , and ≤ 35 . So there is no temperature that satisfies all their demands. So the answer is "No".

Test Case 3: Alice wants the temperature to be ≥ 30 , Bob wants it to be ≤ 35 , and Charlie wants it to be ≥ 35 . The temperature 35 satisfies all their demands. So the answer is "Yes".

Test Case 4: Alice wants the temperature to be ≥ 30 , Bob wants it to be ≤ 25 , and Charlie wants it to be ≥ 35 . A number can't be both ≥ 30 , and ≤ 25 . So there is no temperature that satisfies all their demands. So the answer is "No".