

E. Beautiful Matrix

Constraint: Time Limit: 2 seconds, Memory: 512MB



Problem description

You are given a 2×2 matrix containing four distinct integers. Your goal is to transform this matrix into a **beautiful** one.

A matrix is considered **beautiful** if it satisfies both of the following properties:

- In every row, the left element is smaller than the right element.
- In every column, the top element is smaller than the bottom element.

Beautiful				Not beautiful			
1	3	10	13	7	3	1	3
5	7	12	42	5	1	7	5
4	8	13	37	10	3	13	37
6	9	42	69	5	12	69	42

To achieve this, you are allowed to perform the following operation any number of times: **rotate the entire matrix 90 degrees clockwise** — that is, the element in the top-left corner moves to the top-right position, the top-right element moves to the bottom-right position, the bottom-right element moves to the bottom-left position, and the bottom-left element moves to the top-left position:

Before operation

1	3
5	7

8	10
3	4

After operation

5	1
7	3

3	8
4	10

Determine if it is possible to make the matrix beautiful by applying zero or more operations.

INPUT	OUTPUT
<p>The first line contains one integer t ($1 \leq t \leq 1000$) — the number of test cases.</p> <p>Each test case consists of two lines. Each of those lines contains two integers — the elements of the corresponding row of the matrix. In each matrix, all four elements are distinct integers from 1 to 100.</p>	<p>For each test case, print YES if the matrix can become beautiful, or NO otherwise. You may print each letter in any case (YES, yes, Yes will all be recognized as positive answer, NO, no and nO will all be recognized as negative answer).</p>

Example 1:

INPUT	OUTPUT
1 13 54 91 10	NO

Example 2:

INPUT	OUTPUT
1 2 3 4 5	YES

Example 3:

INPUT	OUTPUT
6 1 3 5 7 8 10 3 4 8 10 4 3 6 1 9 2 7 5 4 2 1 2 4 3	YES YES NO YES YES NO