CAST Software Developer Hiring Ch

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End Test

3 Questions	Total Marks: 300.0		
3 Programming Questions			
1. Perpendicular Lines	+ 100.0		
2. Black and White	+ 100.0		
3. A Game on Array	+ 100.0		

and (x3, y3), (x4, y4) are perpendicular to each other.

NOTE:

 It is NOT provided that the points are distinct i.e the first two or the last two points may be equal too!

INPUT FORMAT:

First line T is the number of test cases.

Each test case is followed by 2 lines.

The first line of every test case contains four integers (x1, y1) and (x2, y2).

The second line contains four integers (x3, y3) and (x4, y4).

OUTPUT FORMAT:

For every test case:

- print "YES" without quotes if the lines are perpendicular to each other
- print "NO" without quotes if the lines are not perpendicular
- print "INVALID" without quotes if there are less than 2 lines

CONSTRAINTS:

Sample Input	8	Sample Output	8	
4 1 2 3 3 3 3 1 7 3 4 8 9		YES INVALID NO NO		
13 5 13 5 5 7 12 9				?
4 = 0 4=				