The Right Triangles

Problem:

Shreyansh is given a list of N triangles. Each triangle is identified by the coordinates of its three corners in the 2-D cartesian plane. His job is to figure out how many of the given triangles are right triangles. A right triangle is a triangle in which one angle is a 90 degree angle. The vertices of the triangles have integer coordinates and all the triangles given are valid (three points aren't collinear).

Input:

The first line of the input contains an integer N denoting the number of triangles. Each of the following N lines contain six space separated integers $x1 \ y1 \ x2 \ y2 \ x3 \ y3$ where (x1, y1), (x2, y2) and (x3, y3) are the vertices of a triangle.

Output:

For each input of the test case, you will print "Yes" is the given triangle is a right angled triangle or "No" if it isn't.

Sample:

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Input:

1
004003
Output (According to the input):
Yes
Time Limit:
1 second.
Scoring:
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There will be 2 test cases, and you will get 50 marks for each correct output.