

Problem 7 : Death triangle.

Statement

As long as titans exists,The Survey Corps are on duty to develop multiple war techniques against them,The **special target restraining weapon** (对特定目標拘束兵器) is one of the famous tools they made for the purpose of capturing specific titans.

This time they are aiming to trap these monsters by planning dangerous areas,each area comes in the form of a triangle,although we have different types of triangles,only the right-angled forms can kill titans, if we have the coordinates of locations which form each triangle, Can you help the survey corps test each area if it is a good trap for titans ?

Input

The coordinates of each three locations which form the triangle area.

Output

Boolean value.



Example

Input	Output
1 1 1 5 4 1	True