



CAST Software Developer Hiring Challenge

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

Question 1 Max. Marks 100.00 ?

Perpendicular Lines

Given 4 points of the form (x_i, y_i) in 2D plane, find out if the lines formed by (x_1, y_1) , (x_2, y_2) and (x_3, y_3) , (x_4, y_4) 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 (x_1, y_1) and (x_2, y_2) .

The second line contains four integers (x_3, y_3) and (x_4, y_4) .

OUTPUT FORMAT:

For every test case :

?