Line Segment Intersection

Assignment 1
Computer Programming
Due date: 10 September, 2018

Description: Given two line segments find if they intersect at some point.
Input:
First Line contains T, number of test cases Each of following T lines have 8 integers
$(x_1, y_1), (x_2, y_2), (x_3, y_3), (x_4, y_4)$ first four integers represent the co-ordinates of end points of first line segment and last four integers represent the co-ordinates of end points of second line segment.
Output:
Print "Yes" if both line segments intersect, else print "No" if they don't intersect without quotes.
Constraints:
$1 \le T \le 10^5$.
Each co-ordinate is an integer between -10^9 and 10^9 (Both Inclusive).
Sample Test Case

Input	Output
2	Yes
0 0 4 4 1 2 1 -5	No
0 0 4 4 4 0 5 9	