

# Shivam ka Swayanvar (30 Points)

## ZPRAC-16-17-Lab3

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Fortunately for Bhuvish, this year is a creep year. So, he is eagerly waiting for Shivam's Birthday since he gets to eat a lot of cakes. Shivam is also very excited for his birthday, but for different reasons. He wants to find the perfect bride for himself on his birthday. So, he invites lots of pretty girls to his party. But his mom, Harpreeta doesn't want a dumb girl to become Shivam's wife. Thus, she adds a question to every invitation which needs to be solved for entry. A lot of pretty girls want to solve this question and come to you for help. The problem given in the invitations is, given two rectangles, you need to check if they intersect or not.

Input: There are two lines of input, each line denoting an axis parallel rectangle (i.e. its axes are parallel to the x-y axes). Each line contains four integers  $x1, y1, x2, y2$ . Where  $(x1, y1), (x2, y2)$  are the bottom left and top right points of the rectangle respectively.  $(-1000 \leq x1 < x2 \leq 1000, -1000 \leq y1 < y2 \leq 1000)$ .

Output: Print "Yes" if they intersect (Any two rectangles which have any point common between them (the points inside the rectangle should also be considered) are called intersecting). Otherwise, print "No"

Example:

Input:

0 0 4 3

1 1 5 4

Output:

Yes