Oppa Tantrum-Style! (20 Points)

ZPRAC-16-17-Lab3

Kriti is a Korean Pop-star working part time in Ransom-Korea and is organizing a concert. She aims to surpass the popularity of Psy by doing her famous Tantrum-style dance. Being extremely insecure, PSY comes to Prabhu (the God) for guidance. Prabhu instructs his disciple Samik-Some to drop “some” bombs at the rectangular stage in Kriti’s concert. Kriti, having heard rumours about this is concerned about the safety of her concert. Given an axis aligned rectangle and the location of the bomb, you have to find if it lands on the stage or not.

Input: There are two lines of input, the first line represents a rectangle containing four integers $x1,y1,x2,y2$. Where $(x1,y1),(x2,y2)$ are the bottom left and top right points of the rectangle respectively ($-1000 \le x1 < x2 \le 1000$, $-1000 \le y1 < y2 \le 1000$). The second line contains two integers $x3,y3$ ($-1000 \le x3,y3 \le 1000$) representing the point where the bomb would be dropped.

Output: Print “Yes” if the point lies inside the rectangle (The case when the point is on the rectangle boundary should be considered as outside). Otherwise, print “No”

Example:
Input:
0 0 4 3
1 1
Output:
Yes