

Photos in a Frame

After his sister's marriage Ashvant was given the job of preparing the marriage photo album. There were many photos (rectangular in size), so he planned to put two photos in a single frame (rectangular in size). Since there were many photos and many frames each of varying sizes, he randomly chose two photos and a frame and asked his friend Senthil whether he could put these two photos in that frame.

There were some conditions :

- The two photos should be placed completely inside the frame
- The two photos can touch each other and the edges of the frame but cannot overlap or go beyond the edge of the frame.
- we can rotate the two photos but at least one edge of each of the photos must be parallel to an edge of the frame.

Given the dimensions of the two photos and frame, Senthil has to tell whether it is possible to place the two photos inside the frame. Help Senthil...!

Input

The first line of the input has 't'—number of testcases

Each testcase contains a single line n,m,a,b,c,d

n m—dimensions of the Frame

a b—dimensions of the first Photo

c d—dimensions of the second Photo

$1 \leq t \leq 10000$

$1 \leq n, m, a, b, c, d \leq 1000000$

Output

For each testcase, if the photos can be placed inside the Frame, print "Yes" else print "No" .

Example

Input:

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1
3 2 1 3 2 1
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Output:

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Yes
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