## Intersecting Circles

Given two circles with centers at ( $\mathrm{x} 1, \mathrm{y} 1$ ) and ( $\mathrm{x} 2, \mathrm{y} 2$ ) and having radius r 1 and r 2 respectively, find if they intersect or not. Two circles are considered to be intersecting if they have a common area. Even if two circles touch at a point then they are considered to be intersecting.

## Input

First line contains an integer $T$. Then follow $T$ lines each line containing integers $x 1, y 1, x 2, y 2$, r1, r2 in that order.

## Output

Print "YES" (without quotes) if they intersect and "NO" if they don't intersect.

## Constraints

$T<=10,000$
All other integers will have an absolute value $<=1000,000,000$

## Example

Input:
3
002211
002233
0010000000000600000000400000000

## Output:

NO
YES
YES

