

Jim Beam

Jim likes to play with laser beams.

Jim stays at point $(0, 0)$.

There is a mirror at point (X_m, Y_m) and a wall between points (X_1, Y_1) and (X_2, Y_2) .

Jim wants to find out if he can point the laser beam on the mirror.

Input Format

First line contains the number of test cases, T .

Each subsequent line contains one test case: space separated integers that denote endpoints of the wall X_1, Y_1, X_2, Y_2 and position of the mirror X_m, Y_m .

Output Format

The answer for each test case: Display **YES** if Jim can point the laser beam to the mirror, otherwise display **NO**.

Constraints

$$1 \leq T \leq 100$$

$$0 \leq |X_1|, |Y_1|, |X_2|, |Y_2|, |X_m|, |Y_m| \leq 10^6$$

Mirror doesn't have common points with wall.

Wall doesn't pass through the point $(0, 0)$.

Sample Input

```
5
1 2 2 1 2 2
-1 1 1 1 1 -1
1 1 2 2 3 3
2 2 3 3 1 1
0 1 1 1 0 2
```

Sample Output

```
NO
YES
NO
YES
NO
```