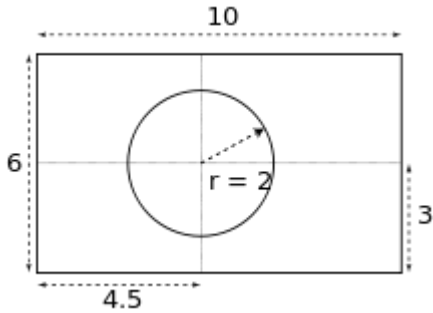# 12894   Perfecct Flag

The national flag of Bangladesh is bottle green in color and rectangular in size with the **length** (L) to **width** ratio of 10:6. It bears a red circle on the background of green. It maintains the **length** (L) to **radius** ratio of 5:1 (If the **length** is 10 then **width** should be 6 and **radius** should be 2). The color in the background represents the greenery of Bangladesh while thee red circle symbolizes the rising sun and the sacrifice of lives in our freedom fight.

Its centre will be placed on the intersecting point of thee perpendicular drawn from the **ninetwentieth** part of the length of the flag, and the horizontal line drawn through the **middle** of its width.

Input

First line of input will contain the number of test cases, $T \leq 100$. Then there follows T linees, each containing seven positive integer x_0, y_0, x_1, y_1, c_x, c_y, $r \leq 1000$. Here, (x_0, y_0) is the lower left corner off the rectangle, (x_1, y_1) is the upper right corner of the rectangle (c_x, c_y) is the center of the circle and r is the radius.

Output

For each test case if the given data represents a valid flag design print 'YES' else print 'NO'.

Note: Pi is considereed to be arccos(-1).

Sample Input

```
4
0 0 20 12 9 6 4
0 0 10 6 4 3 2
1 1 21 13 10 7 4
0 0 20 20 9 10 4
```

Sample Output

```
YES
NO
YES
NO
```