Obstacle Path

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Problem

Submissions

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Discussions

You are given a rectangle with its bottom-left vertex at the origin of the cartesian plane and the top-right vertex at (X, Y). You are at the top-left corner and need to reach the bottom-right corner.

There are N obstacles in the form of circles. You cannot pass through any circle. You cannot move on the edge of the rectangle or a circle. Find out if it is possible to reach the destination.

Note: Centers of all circles lie within the rectangle.

Input Format

First Line: Integer $oldsymbol{T}$ denoting the number of test cases.

For every test case:

- First Line: Two integers X, Y denoting the coordinates of top-right vertex of the rectangle.
- Second Line: Integer N, denoting the number of circles.
- Each of following N lines contain three integers cx_i, cy_i, r_i .

 cx_i, cy_i : x and y coordinates of i-th circle.

 r_i : radius of i-th circle.

Constraints

$$1 \le T \le 10$$

$$1 \le N \le 1000$$

$$1 \leq X, Y, R \leq 10^8$$

Centers of all circles lie within the given rectangle.

Output Format

For each test case, print **YES** if you can reach the destination, otherwise print **NO**.

The answer to each test case must be printed in a new line.

Sample Input 0

```
10 7 2
10 4 2
```

Sample Output 0

YES

f y in

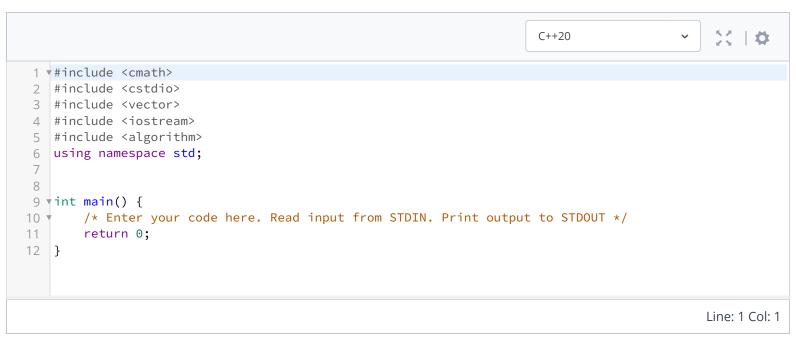
Submissions: 21

Max Score: 100

Rate This Challenge:

Difficulty: Medium

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