Coding Arena

Problem : Trace the Rats

Given a square maze **(A)** of dimension **N**, every entry **(Aij)** in the maze is either an open cell **'O'** or a wall **'X'**. A rat can travel to its adjacent locations (left, right, top and bottom), but to reach a cell, it must be open. Given the locations of **R** rats, can you find out whether all the rats can reach others or not?

Input Format:

Input will consist of three parts, viz.

1. Size of the maze (N)
2. The maze itself (A = N * N)
3. Number of rats (R)
4. Location of R rats (X_i, Y_i)

Note:

- (Xi,Yi) will represents the location of the i-th rat.
- Locations are 1-index based.

Output Format:

Print "Yes" if the rats can reach each other, else print "No"

Constraints:

1<=N<=350

Aij = {'O','X'}

1<=R<=N*N

1<=Xi<=N

1<=Yi<=N

Sample Input and Output

SNo.	Input	Output
1	3 O O X O X O O O X 4 1 1 1 2 2 1 3 2	Yes
2	3 O O X O X O O O X 4 1 1 1 2 2 1 2 3	No

Note:

Please do not use package and namespace in your code. For object oriented languages your code should be written in one class.

Note:

Participants submitting solutions in C language should not use functions from <conio.h> / <process.h> as these files do not exist in gcc

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Submit Answer

I , **BASANT BHALA** confirm that the answer submitted is my own.

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