

## Coding Arena



A B C D E F G

### Problem : Trace the Rats

Given a square maze (**A**) of dimension **N**, every entry (**A<sub>ij</sub>**) 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<sub>i</sub>, Y<sub>i</sub>)

#### Note:

- (X<sub>i</sub>,Y<sub>i</sub>) 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:

$$1 \leq N \leq 350$$

$$A_{ij} = \{'O', 'X'\}$$

$$1 \leq R \leq N * N$$

$$1 \leq X_i \leq N$$

$$1 \leq Y_i \leq N$$

#### 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

Time Left

**05 24 51**  
 hr min sec

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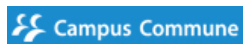
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☐ I, **BASANT BHALA** confirm that the answer submitted is my own.

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