

Rat In A Maze

Time limit: 1.0s **Memory limit:** 64M

magicalsoup has a pet rat. He puts him in a square maze, with walls and pathways. He always puts him at the top left corner, and the exit is at the bottom right corner. The rat can move in the 4 directions left, right, up and down. The maze is composed of $N \times N$ numbers, of either 0 or 1. 0 indicates the rat can move there, while a 1 indicates there is a wall and the rat cannot move there or pass through there. At the end of the maze, is a piece of cheese. The rat really loves cheese, help him get to the cheese!

Constraints

$$1 \leq N \leq 500$$

Input Specification

The first line contains an integer, N , the size of the maze.

An $N \times N$ size grid, with 0 and 1s.

Output Specification

Print out either yes or no, if the rat can reach the end of the maze or not.

Sample Input

```
4
0 0 1 1
0 0 0 1
0 0 1 0
0 1 0 0
```

Sample Output

```
no
```