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## Zig-zag

P71711_en
Write a program that reads several matrices of integer numbers, and that for each one tells whether the result of traversing it in zig-zags is a strictly increasing sequence. We must start at the top-left position, go down the first column, up the second column, down the third column, and so on.

## Input

Input consists of several matrices, each with the number of rows $r \geq 1$ and the number of columns $c \geq 1$, followed by $r$ rows with $c$ integer numbers each.

## Output

For every matrix, print its number followed by either "yes" o "no", depending on whether the zig-zag traversal of the matrix generates a strictly increasing sequence or not.

```
Sample input
34
10}1515 36 4
11}144374
12}1313\quad38\quad3
3
1011
12 13
1415
2 2
57
66
2 3
14 5
2 5 
1 1
-3
1 3
46
2 1
100
200
```


## Sample output

matriu 1: yes
matriu 2: no
matriu 3: no
matriu 4: no
matriu 5: yes
matriu 6: yes
matriu 7: yes

## Problem information

Author : Professors de P1
Translator: Salvador Roura
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