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The Virtual Learning Environment for Computer Programming

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 $r \ge 1$ and the number of columns $c \ge 1$, 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 i	nput
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11) 1 L 1	4	36 37 38	40	
12	2) 1 2 1 1 1	3			
2 5 6	2 7 6				
2 1 2	3 4 3	5 5			
1 -3	1 3				
1 4	3 6	8			
2 10 20	00				

Sample output

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

Problem information

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