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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.

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3	4					
10	) 1	5	36	41		
11	. 1	4	37	40		
12	2 1	3	38	39		
3	2					
10	) 1	.1				
12	2 1	3				
14	1	5				
	_					
2	2					
5	1					
6	6					
2	S					
۲ 1	2	F				
1 2	4	5				
2	С	5				
1	1					
_ 3	2					
	,					
1	3					
4	6	8				
2	1					
10	0					
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**

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