VSU COPP
H - 'How Many were the Superiors'

Problem description

In an $n\ x\ n$ matrix m, there are superior numbers. A number is considered superior when it is greater than all of its adjacent sides.

The task is to count how many superior numbers are present in a given matrix.

Input

The first line contains n, which represents the dimension of the matrix.

The succeeding lines contain $n\ x\ n$ integers, which are the contents of the matrix.

Output

Print c, the number of superior numbers in the matrix.

Constraints

- $0 <\leq 100$
- $0 \leq i, j \leq n\ where\ 0 \leq m[i][j]\ \leq 100$

Sample input/output

Sample input and output for this problem:

Input	Output
3 4 0 3 1 2 1 9 7 8	4
4 6 5 9 9 1 3 7 0 9 0 4 2 3 4 5 1	3

Explanation

In the first sample, there are 4 superior numbers: 4, 3, 9, 8. In the case of 4, its adjacent numbers are lower than it (0, 2, 1). The same applies to the rest of the superior numbers.

In the second sample, there are 3 superior numbers: 6, 9, 5.