# G – Game of Geniuses

**Memory limit:** 1024 MB
**Time limit:** 2 s

*AMPPZ 2023*
*2023-11-05*

amppz

Two geniuses are playing the following game. They have a square $n \times n$ board filled with integers. Players take turns making moves. The first player's move is to cross out a selected row that hasn't been crossed out yet. The second player's move is to cross out a selected column that hasn't been crossed out yet. After each player makes $n - 1$ moves, exactly one integer will remain uncrossed. The first player aims to maximize this number, while the second player aims to minimize it.

Given a board, determine the value of the one uncrossed number at the end of the game. As the two players are geniuses, they play optimally.

## Input

The first line of the input contains a single integer $n$ ($2 \leq n \leq 50$), representing the size of the board. The following $n$ lines of the input describe the rows of the board: the $i$-th line contains $n$ integers $a_{i1}, a_{i2}, \ldots, a_{in}$ ($1 \leq a_{ij} \leq 2500$), representing the numbers in the $i$-th row.

## Output

Output a single integer, the value of the one uncrossed number at the end of the game when both players play optimally.

## Example

For the input data:

```
3
1 4 9
8 4 2
7 5 7
```

the correct result is:

```
5
```

**Example optimal gameplay:**