## 12923 The Island

After arriving at an island, the $n$ survivors of the zombie apocalypse must work together to establish a base-center. There are $n$ weapons and every survivor has more or less ability with each one. Your mission is to find a way to assign optimally the arsenal to the team.

## Input

The input consists of several test cases. Each test case starts with a line that contains one integer $n$ $(1 \leq n \leq 100)$. The following $n$ lines will contain $n$ integers, say $q_{i j}\left(0 \leq q_{i j} \leq 1000\right)$. Line number $i$ will specify the ability of the survivor number $i$ using each weapon $j$.

## Output

For each test case print on a single line the maximum ability that can be obtained, when the weapons are optimally assigned.

## Sample Input

5
12730
34102
23600
06110
20045
2
13
59
2
16
59

## Sample Output

23
10
11

