

The hardest problem

Time Limit = 1s, Memory Limit = 32768KB

In the final exam, you are given n problems to solve, each one of which has an integer value indicating its difficulty, the larger, the harder. You need to find out which problem is the hardest.

Input

Input may contain several test cases, one per line. For each test case, the first integer indicates n ($1 \leq n \leq 4$), the number of problems. And then n signed 32-bit integers follow. A case with $n=0$ indicates the end of input, which should not be processed.

Output

For each test case, you must output the difficulty value of the hardest problem in a single line.

Sample Input

```
1 1
2 1 2
3 1 3 2
4 1 2 3 4
0
```

Sample Output

```
1
2
3
4
```