Problem A
Call for Tasks

Through its Call for Tasks, the 2026 Asia Jakarta Regional Contest invites problemsetters to submit tasks for the competition.

Fausta submitted N tasks in response to the Call for Tasks. These tasks have difficulties $A_1, A_2, \ldots, A_N$ in that order. The difficulty of each task is represented by an integer between 1 and N (inclusive), with smaller integers indicating lower difficulty. No two tasks have the same difficulty.

Among these tasks, the judges want to identify the best task to use. To do so, they will repeatedly perform the following action until exactly one task remains:

- Choose any two consecutive tasks in the current list and remove the one with the **lower** difficulty.

Determine the maximum possible difficulty of the remaining task after this process is finished.

Input

The first line contains an integer N ($1 \leq N \leq 20$), the number of tasks.

The second line contains N space-separated integers $A_1, A_2, \ldots, A_N$ ($1 \leq A_i \leq N$, and $A_i \neq A_j$ for $1 \leq i < j \leq N$), the difficulties of the tasks.

Output

Output a single integer denoting the maximum possible difficulty of the remaining task.

Sample 1

Sample Input	Sample Output
5 2 3 1 5 4	5

Explanation of Sample 1: The judges can perform the following actions.

- Choose the tasks with difficulties 1 and 5. The task with difficulty 1 is erased as it has the lower difficulty. The remaining tasks have difficulties 2, 3, 5, and 4, in that order.
- Choose the tasks with difficulties 5 and 4. The task with difficulty 4 is erased as it has the lower difficulty. The remaining tasks have difficulties 2, 3, and 5, in that order.
- Choose the tasks with difficulties 2 and 3. The task with difficulty 2 is erased as it has the lower difficulty. The remaining tasks have difficulties 3 and 5, in that order.
- Choose the tasks with difficulties 3 and 5. The task with difficulty 3 is erased as it has the lower difficulty. Only one task remains, with difficulty 5.

Since 5 is the maximum difficulty among the original tasks, this answer is optimal.

Sample 2

Sample Input	Sample Output
1 1	1

Explanation of Sample 2: Since there is already only one task, the judges do not perform any actions.