# Party



**N** people came to a party. Then those, who had no friends among people at the party, left. Then those, who had exactly 1 friend among those who stayed, left as well. Then those, who had exactly 2, 3, ..., **N** - 1 friends among those who stayed by the moment of their leaving, did the same.

What is the **maximum** amount of people that could stay at the party in the end?

#### Input

The first input line contains one number T — amount of tests ( $1 \le T \le 10^5$ ). Each of the following T lines contains one integer number N ( $1 \le N \le 10^5$ ).

### Output

For each test output in a separate line one number — the maximum amount of people that could stay in the end.

## Sample

Input	Output
1	1
3	

### **Explanation**

For N = 3, if the friend structure is: people A and people B are friends, and people A and people C are friends, but people B and people C are NOT friends.

After the "leaving process", only people A will stay. This friend structure can give maximum number of people stay at the end.