Begin: 2022-06-30 22:00 BST

UAP Beginner Practice Contest 1

End: 2022-07-06 06:00 BST

Elapsed: 15:04:21

Running

Remaining: 112:55:38

OS

Linux

A - Maximum Draws

A person is getting ready to leave and needs a pair of matching socks. If there are n colors of socks in the drawer, how many socks need to be removed to be certain of having a matching pair?

Example $n = 2$

There are 2 colors of socks in the drawer. If they remove 2 socks, they may not match. The minimum number to insure success is 3.

Function Description

Complete the *maximumDraws* function in the editor below.

maximumDraws has the following parameter:

- *int n:* the number of colors of socks

Returns

- *int:* the minimum number of socks to remove to guarantee a matching pair.

Input Format
The first line contains the number of test cases, t.
Each of the following t lines contains an integer n.

Constraints
$1 \leq t \leq 1000$
$0 < n < 10^6$

Sample Input

```
2
1
2
```

Sample Output

```
2
3
```

Explanation
Case 1 : Only 1 color of sock is in the drawer. Any 2 will match.
Case 2 : 2 colors of socks are in the drawer. The first two removed may not match. At least 3 socks need to be removed to guarantee success.

Sponsor

Server Time: 2022-07-01 13:04:21 BST