**Begin:** 2022-06-30

22:00 BST

# UAP Beginner Practice Contest 1

**End:** 2022-07-06

06:00 BST

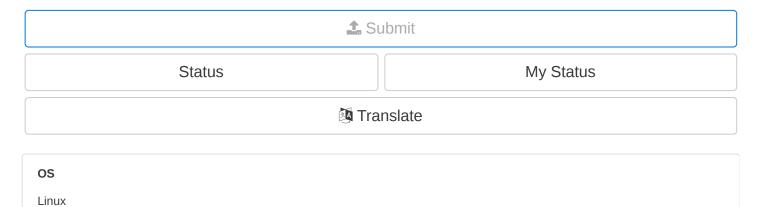
Elapsed: 15:04:21 Running Remaining:

112:55:38

Overview Problem Status Rank (15:04:11) 0 Comments

Setting ★Favorite

A B C D E F G



## 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.



 $\it maximum Draws~has~the~following~parameter:$ 

• *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**

$$1 \le t \le 1000$$

$$0 < n < 10^6$$

#### **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**



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

