 <b>Marwadi</b> University	<b>Marwadi University</b> <b>Faculty of Technology</b> <b>Department of Information and Communication Technology</b>	
<b>Sem : 4</b>	<b>Name : VEDANT BHARAD</b>	
<b>Day : 142</b>	<b>Date : 9/03/2023</b>	<b>Enrollment No: 92100133023</b>


CP Club 365 Days Challenge

**Programming language – C++**

## **Problem Statement**

<https://www.codechef.com/problems/POOK>

Git :- [https://github.com/Vedantbharad2603/CP\\_club\\_365\\_Days](https://github.com/Vedantbharad2603/CP_club_365_Days)

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## Your Code:

```
// 0x142Day of 0x365Days challenge
// VEDANT BHARAD
// 09-03-2023
#include <iostream>
using namespace std;
int main() {
    int t;
    cin >> t;
    while (t--) {
        int n;
        cin >> n;
        if (n == 1) {
            cout << 1 << endl;
        } else if (n < 4) {
            cout << n - 1 << endl;
        } else {
            cout << n << endl;
        }
    }
    return 0;
}
```

## Output (Screen Shot):

Game of Pooks ✓
Difficulty Rating: 1121
Expand

Prev Problem
Next Problem

Statement
Hints
Submissions
Solution

C++17

Test against Custom Input

3  
1  
2  
3

Problem Solver Badge
37 / 50
Next Problem

Solve 13 more problems to get Bronze Badge

Status: ✓ Correct Answer
Submission ID: 91771221

Time: 0.19s

Congratulations on solving the problem. Visit our practice section to solve more interesting problems
View another problem

Upload code as file
Run
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### Problem

We have found a new chess character — pook. It has the qualities of both a rook and a pawn. Specifically, treating the chessboard to be an  $N \times N$  grid where  $(i, j)$  denotes the intersection of the  $i$ -th row and the  $j$ -th column, a pook placed at square  $(x, y)$  threatens the following squares:

- $(i, y)$  for every  $1 \leq i \leq N$
- $(x, i)$  for every  $1 \leq i \leq N$
- $(x + 1, y - 1)$ , if  $x < N$  and  $y \geq 2$
- $(x + 1, y + 1)$ , if  $x < N$  and  $y < N$


Find the **maximum** number of pooks that can be placed on an empty  $N \times N$  chessboard such that none of them threaten each other.

### Input Format

- The first line of input will contain a single integer  $T$ , denoting the number of test cases. Then the test cases follow.
- Each test case consists of a single line of input, containing a single integer  $N$ .

### Output Format

For each test case, output in a single line the maximum number of pooks that can be placed on the chessboard such that they don't threaten each other.

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### Understanding about problem:

-> In this task I need to Find the maximum number of pooks that can be placed on an empty array

**Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.**

**ALL THE BEST**

Team CP Club