# **Total number of Strings**

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Given 3 characters a, b, c. Find the number of strings of length n that can be formed from these 3 characters. Given that : we can use 'a' as many times as we want, 'b' maximum once, and 'c' maximum twice.

### Input:

The first line of input contains an integer **T** denoting the number of test cases. The first and last line of each test case consists of an integer **n**.

## **Output:**

Print the total number of string that can be formed.

#### **Constraints:**

1<=T<=20

1<=N<=20

### **Example:**

### Input:

2

3

5

# **Output:**

19

71