Problem D
Taipei 101 Vertical Marathon

Time limit: **3 seconds**
Memory limit: **1024 megabytes**

Problem Description

Professor Lee plans to participate in this year's Taipei 101 Vertical Marathon. Each time, he can either climb 1 or 2 steps. Please calculate how many distinct ways the professor can climb to the n-th step of the staircase.

Input Format

Your program is to read from standard input. The input consists of T test cases, where $1 \leq T \leq 10$. The number of test cases T is given in the first line of the input. Each test case contains only one integer number n, where $1 \leq n \leq 25$.

Output Format

Your program is to write to standard output. Print exactly one line for each test case. Print exactly one line for each test case, with each line containing the number of distinct ways the professor can climb to the n-th step of the staircase. Please see the sample output.

Technical Specification

- $1 \leq T \leq 10$
- $1 \leq n \leq 25$
- You may assuse all the input values are all integer numbers.

Sample Input 1

```
10
4
17
16
19
11
24
8
7
10
23
```

Sample Output 1

```
5
2584
1597
6765
144
75025
34
21
89
46368
```

Almost blank page