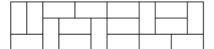
# **Tri Tiling**

Time Limit = 1s, Memory Limit = 32768KB

In how many ways can you tile a 3xn rectangle with 2x1 dominoes?

Here is a sample tiling of a 3x12 rectangle.



## Input

Input consists of several test cases followed by a line containing -1. Each test case is a line containing an integer  $0 \le n \le 30$ .

### **Output**

For each test case, output one integer number giving the number of possible tilings.

#### **Sample Input**

2

12

## **Sample Output**

153

2131