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Tri Tiling

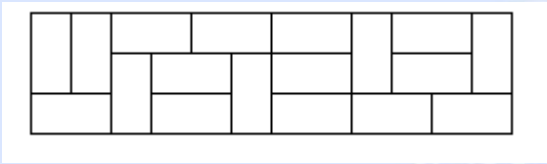
Language:

Default

Time Limit: 1000MS **Memory Limit:** 65536K
Total Submissions: 15534 **Accepted:** 7537

Description

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 $0 \leq n \leq 30$.

Output

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

Sample Input

2
8
12
-1

Sample Output

3
153
2131

Source

Waterloo local 2005.09.24

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