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## 1121. Tri Tiling

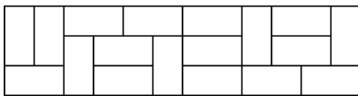
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### Description

**Time Limit: 1sec** **Memory Limit:32MB**

In how many ways can you tile a  $3 \times n$  rectangle with  $2 \times 1$  dominoes?

Here is a sample tiling of a  $3 \times 12$  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

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```
2
8
12
-1
```

### Sample Output

[Copy](#)

```
3
153
2131
```

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Sicily Online Judge System(Rev 20120716-961)

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