uva Dnline Judge

## 10918 Tri Tiling

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

2
8
12
-1

## Sample Output

3
153
2131

