
Some sequences of bits (1)

P81826_en

Write a program that prints the number of sequences of length n made up of only zeros and ones that do not contain two consecutive zeros nor three consecutive ones.

For instance, there are 7 sequences for $n = 5$:

01010 01011 01101 10101 10110 11010 11011

Input

Input consists of several natural numbers n , each between 0 and 150.

Output

For every n , print the required number.

Sample input 1

0
1
2
3
5
150

Sample output 1

1
2
3
4
7
3495391431926239764

Problem information

Author: Salvador Roura

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