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## Some sequences of bits (1)

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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

0  
1  
2  
3  
5  
150

#### Sample output

1  
2  
3  
4  
7  
3495391431926239764

### Problem information

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Generation : 2013-09-02 15:47:06

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