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## 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.

|                              |  |
|------------------------------|--|
| <b>Sample input 1</b>        | <b>Sample output 1</b>                       |
| 0<br>1<br>2<br>3<br>5<br>150 | 1<br>2<br>3<br>4<br>7<br>3495391431926239764 |

### Problem information

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