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**Some sequences of bits (2)****P34343\_en**

Write a program that prints the number of sequences made up of exactly  $z$  zeros and  $u$  ones that do not contain two consecutive zeros nor three consecutive ones.

For instance, there are 8 sequences for  $z = 3$  and  $u = 4$ :

0101011 0101101 0110101 0110110 1010101 1010110 1011010 1101010

**Input**

Input consists of several pairs of natural numbers  $z$  and  $u$ , each between 0 and 90.

**Output**

For every pair of  $z$  and  $u$ , print the required number.

**Sample input 1**

0 0  
1 1  
3 4  
65 90

**Sample output 1**

1  
2  
8  
2529372610666365912

**Problem information**

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