
Some sequences of bits (3)**P59506_en**

Write a program that prints the number of sequences made up of exactly z zeros and u ones that are multiple of three when considered as a binary number. Note that numbers that begin with one or more zeros are allowed here.

For instance, there are 9 sequences for $z = 2$ and $u = 4$:

001111 011011 011110 100111 101101 110011 110110 111001 111100

Input

Input consists of several pairs of natural numbers z and u , each between 0 and 30.

Output

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

Sample input 1

0 0
2 4
30 30

Sample output 1

1
9
39433695205465102

Problem information

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Generation: 2026-01-25T11:33:54.160Z

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