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The Virtual Learning Environment for Computer Programming

# Some sequences of bits (3)

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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:

#### 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

0 0 2 4 30 30

## Sample output

1 9 39433695205465102

#### **Problem information**

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