

Problem A — Fibonacci Numbers

A Fibonacci sequence is calculated by adding the previous two members of the sequence, with the first two members being both 1.

$$f(1) = 1, f(2) = 1, f(n > 2) = f(n - 1) + f(n - 2)$$

Your task is to take a sequence of numbers as input, and print those fibonacci numbers (one on each line).

Sample Input:

```
100
0
```

Sample Output:

```
354224848179261915075
```

Note:

No generated fibonacci number in excess of 1000 digits will be in the test data, i.e. $f(20) = 6765$ has 4 digits.