CCO '98 P1 - Fibonacci Numbers

Time limit: 1.0s **Memory limit:** 64M

Canadian Computing Competition: 1998 Stage 2, Day 1, Problem 1

The nth Fibonacci number, $f(n)$, is defined thus:

$$\begin{cases} f(1) = 1 \\ f(2) = 1 \\ f(n) = f(n-1) + f(n-2) \quad \text{for all } n > 2 \end{cases}$$

Write a program that reads several n, one per line, and writes the corresponding $f(n)$, one per line. Each value of n will be between 1 and 200. The last line of input contains `0`.

Sample Input

```
1
2
3
4
5
100
0
```

Sample Output

```
1
1
2
3
5
354224848179261915075
```