

## 123. The sum

time limit per test: 0.25 sec.  
memory limit per test: 4096 KB

The Fibonacci sequence of numbers is known:  $F_1 = 1$ ;  $F_2 = 1$ ;  $F_{n+1} = F_n + F_{n-1}$ , for  $n > 1$ . You have to find  $S$  - the sum of the first  $K$  Fibonacci numbers.

### Input

First line contains natural number  $K$  ( $0 < K < 41$ ).

### Output

First line should contain number  $S$ .

Sample Input

5

Sample Output

12

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