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## Easy Fibonacci

Input file:            **standard input**  
Output file:        **standard output**  
Time limit:         1 second  
Memory limit:      256 megabytes

Given a number  $N$ . Print first  $N$  numbers of the **Fibonacci** sequence.

**Note:** In order to create the **Fibonacci** sequence use the following function:

- $\text{fib}(1) = 0$ .
- $\text{fib}(2) = 1$ .
- $\text{fib}(n) = \text{fib}(n - 1) + \text{fib}(n - 2)$ .

### Input

Only one line containing a number  $N$  ( $1 \leq N \leq 45$ ).

### Output

Print the first  $N$  numbers from the **Fibonacci** Sequence .

### Example

standard input	standard output
7	0 1 1 2 3 5 8

### Note

For more information visit Fibonacci: <https://www.mathsisfun.com/numbers/fibonacci-sequence.html>.