

## 495 Fibonacci Freeze

The Fibonacci numbers (0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, ...) are defined by the recurrence:

$$\begin{aligned}F_0 &= 0 \\F_1 &= 1 \\F_i &= F_{i-1} + F_{i-2} \text{ for all } i \geq 2\end{aligned}$$

Write a program to calculate the Fibonacci Numbers.

### Input and Output

The input to your program would be a sequence of numbers, each on a separate line, specifying which Fibonacci number to calculate.

Your program should output the Fibonacci number for each input value, one per line.

### Sample Input

```
5
7
11
```

### Sample Output

```
The Fibonacci number for 5 is 5
The Fibonacci number for 7 is 13
The Fibonacci number for 11 is 89
```