

2 Compute Fibonacci

```
import java.util.Scanner  
/* * main method */  
public static void main(String[] args) {  
    // create scanner  
    Scanner input = new Scanner (System.in);  
    int index = input.nextInt();  
    // Find and display the Fibonacci number  
    System.out.println ("The Fibonacci number  
at index " + index + " is " + fib(index));  
}  
  
/* * the method for finding the Fibonacci  
numbers */  
public static long fib (long index) {  
    if (index == 0) // Base case  
        return 0;  
    else if (index == 1) // Base case  
        return 1;  
    else  
        return fib(index-1) + fib(index-2);  
}
```