

# Java 字节码

```
javac Fibonacci.java
```

```
javap -c Fibonacci
```

```
public class Fibonacci {  
    public Fibonacci();  
  
    Code:  
        0: aload_0  
        1: invokespecial #1           // Method java/lang/Object."<init>":()V  
        4: return  
  
    public static int fibonacci(int);  
  
    Code:  
        0: iload_0  
        1: iconst_1  
        2: if_icmpgt    7  
        5: iload_0  
        6: ireturn  
        7: iload_0  
        8: iconst_1  
        9: isub  
       10: invokestatic #7          // Method fibonacci:(I)I  
       13: iload_0  
       14: iconst_2  
       15: isub  
       16: invokestatic #7          // Method fibonacci:(I)I  
       19: iadd  
       20: ireturn  
  
    public static void main(java.lang.String[]);  
  
    Code:  
        0: bipush      10  
        2: istore_1  
        3: getstatic   #13           // Field java/lang/System.out:Ljava/io/PrintStream;  
        6: iload_1  
        7: invokedynamic #19,  0      // InvokeDynamic #0:makeConcatWithConstants:(I)Ljava/lang/String;  
       12: invokevirtual #23         // Method java/io/PrintStream.println:(Ljava/lang/String;)V  
       15: iconst_0
```

```
16: istore_2
17: iload_2
18: iload_1
19: if_icmpge    43
22: getstatic     #13           // Field java/lang/System.out:Ljava/io/PrintStream;
25: iload_2
26: invokestatic   #7           // Method fibonacci:(I)I
29: invokedynamic #29,  0       // InvokeDynamic #1:makeConcatWithConstants:(I)Ljava/lang/String;
34: invokevirtual #30          // Method java/io/PrintStream.print:(Ljava/lang/String;)V
37: iinc        2,  1
40: goto         17
43: getstatic     #13           // Field java/lang/System.out:Ljava/io/PrintStream;
46: invokevirtual #33          // Method java/io/PrintStream.println:()V
49: return
}

}
```