

Java 位元組碼

```
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
}
```