

## 3.7 Fibonacci number

### 3.7.1 Fibonacci number using iteration

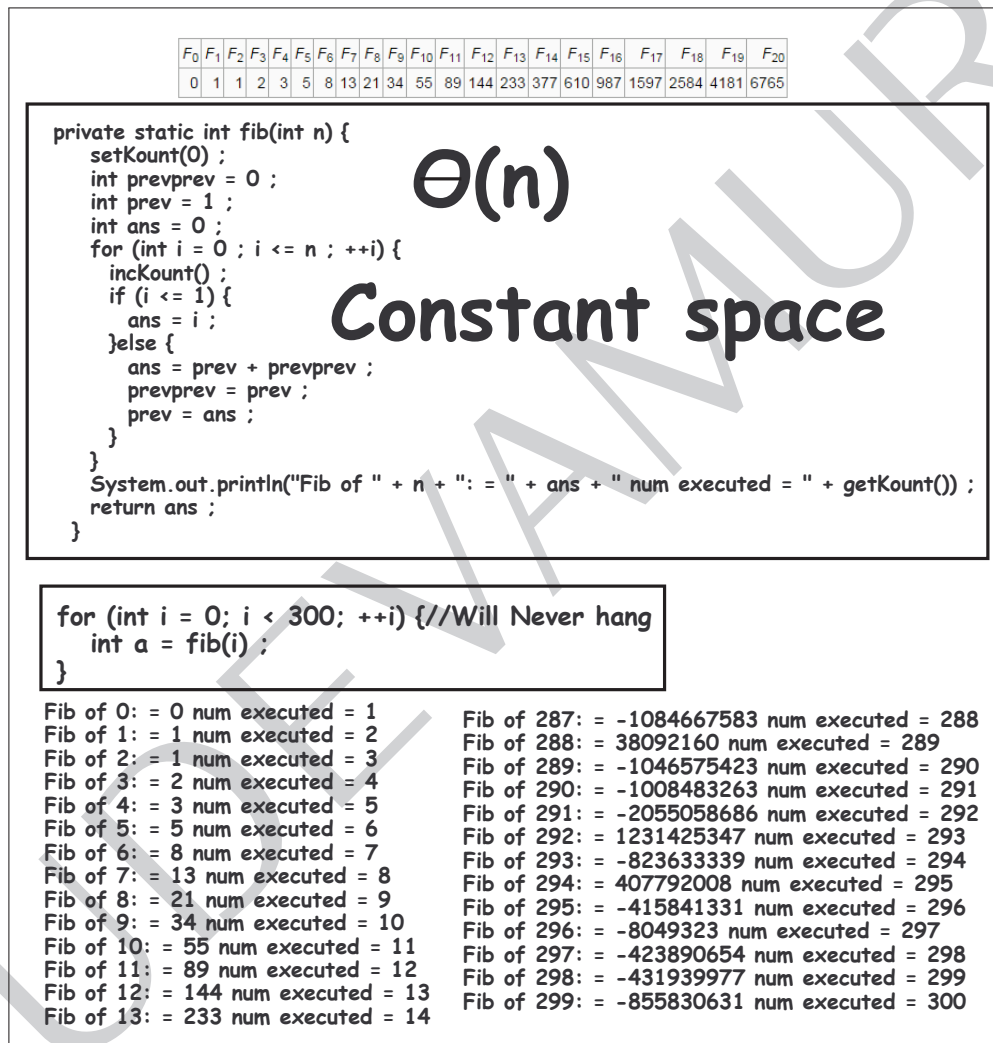


Figure 3.11: Fibonacci number using iteration

### 3.7.2 Fibonacci number using recursion

### 3.7. FIBONACCI NUMBER

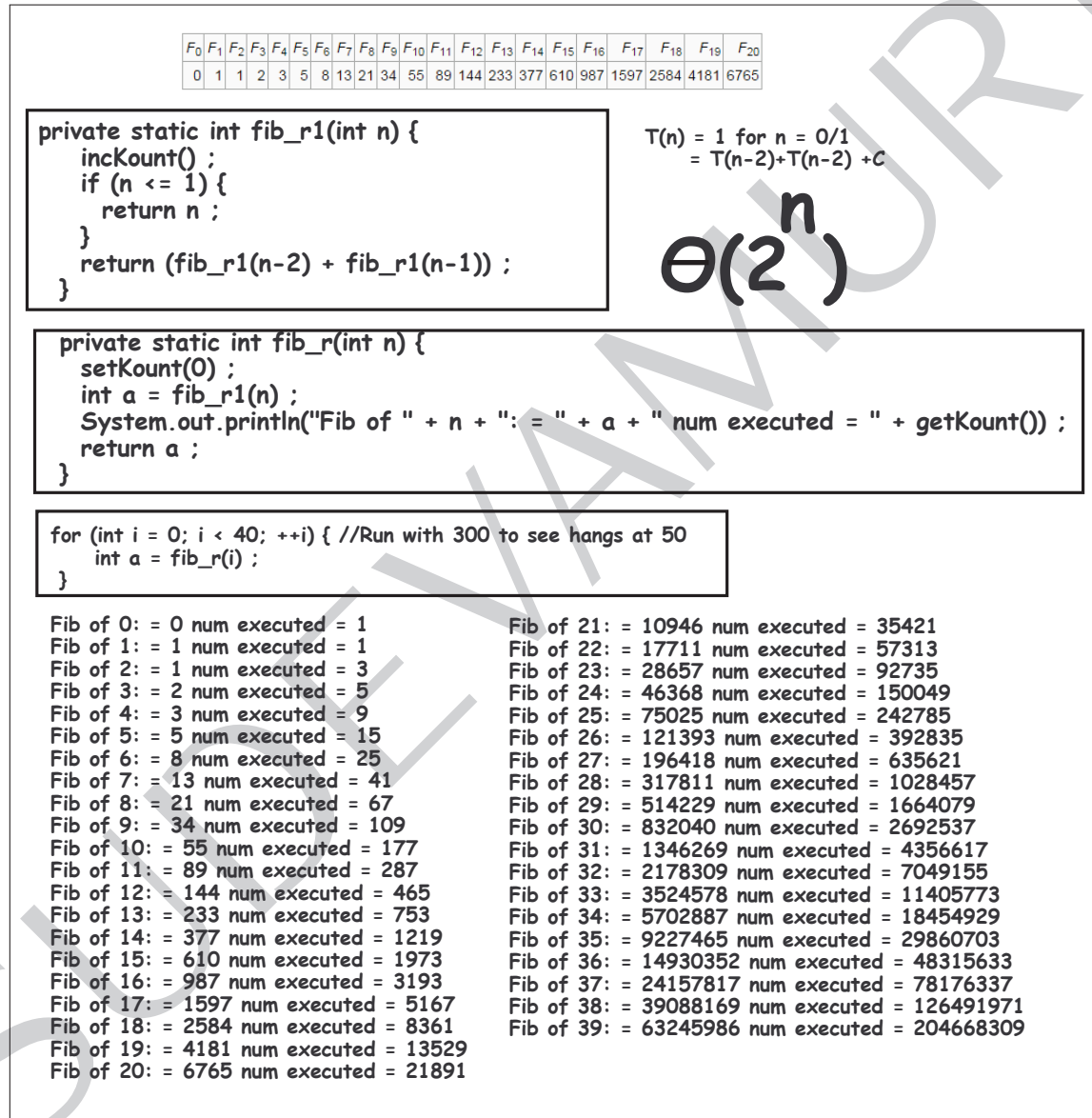


Figure 3.12: Fibonacci number using recursion

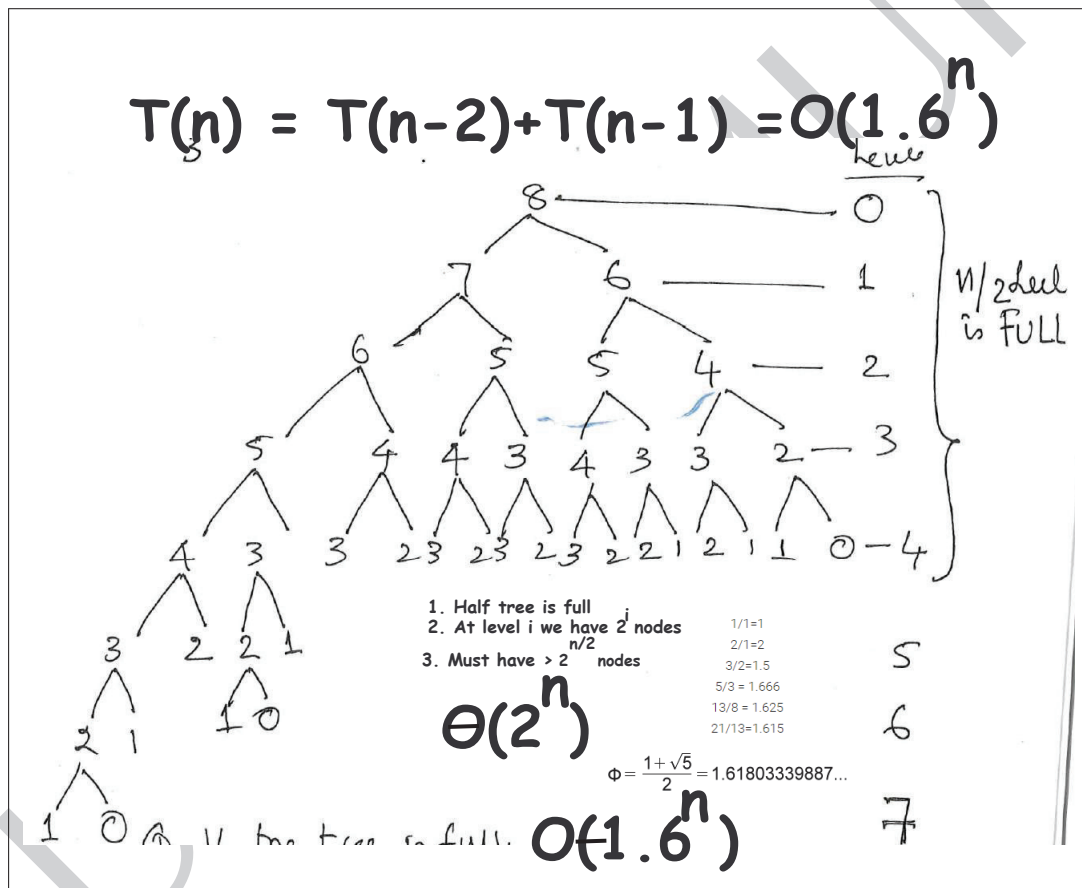


Figure 3.13: Complexity of computing Fibonacci number using recursion

### 3.8. TOWER OF HANOI

#### 3.7.3 Fibonacci number using tail recursion

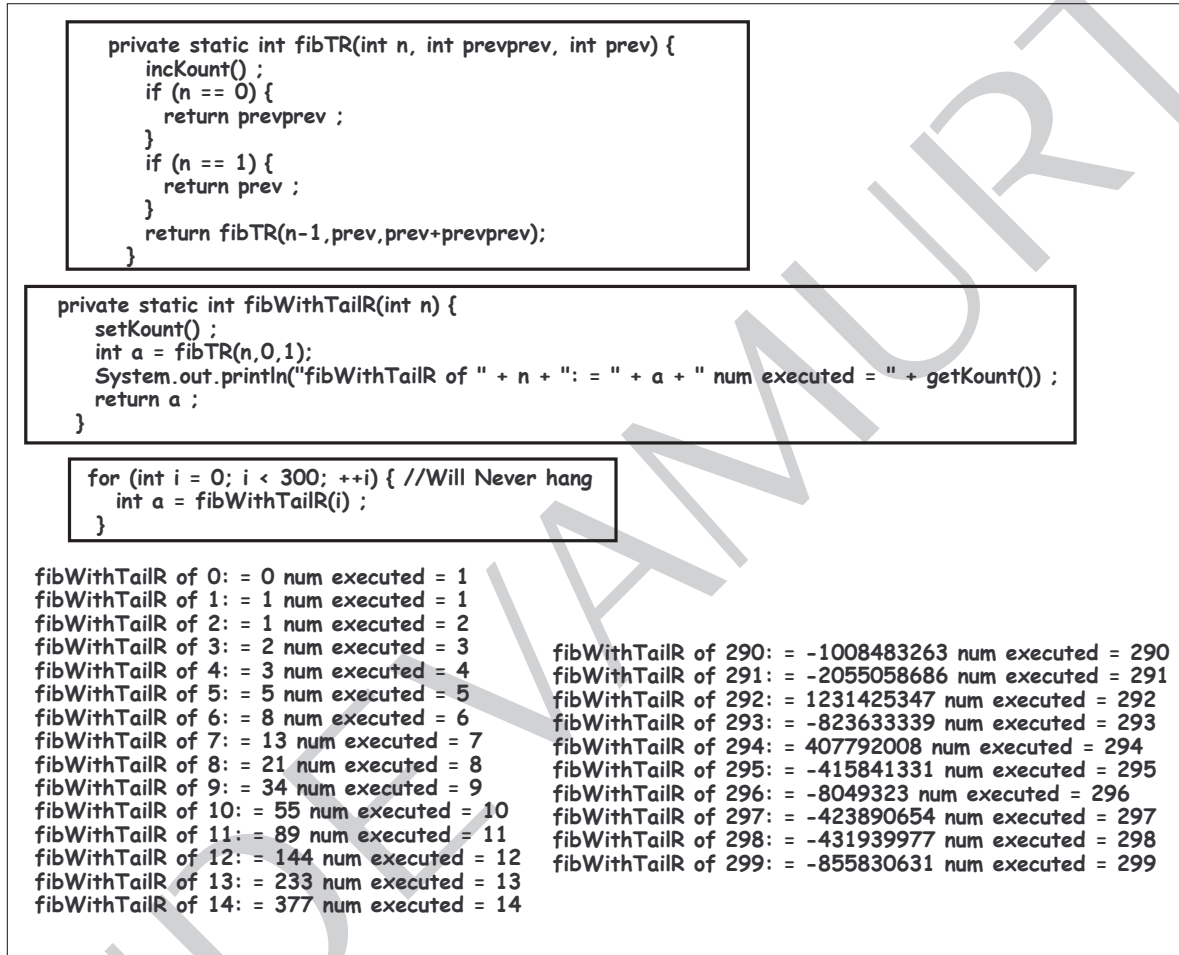


Figure 3.14: Fibonacci number using tail recursion

#### 3.7.4 Fibonacci number using stack

### 3.8 Tower of Hanoi

#### 3.8.1 Tower of Hanoi using recursion