#15 Days of Coding Challenge
#Day 10

Fibonacci number
#Leetcode 509

Solution:


```cpp
class Solution {
public:
    int fib(int n) {
        if (n <= 1) return n;
        int a = 0, b = 1;
        for (int i = 2; i <= n; i++) {
            int temp = b;
            b = a + b;
            a = temp;
        }
        return b;
    }
};
```


Time Complexity: O(n)
Space Complexity: O(1)