```cpp
/*
Task 4: Recursive Functions
Implement a recursive function for calculating Fibonacci numbers.
Compare recursive vs. iterative implementations for Fibonacci and analyze performance.
*/

#include <iostream>
#include <chrono>
using namespace std;
using namespace std::chrono;

// Recursive Fibonacci
int fibonacci_recursive(int n) {
    if (n <= 1) return n;
    return fibonacci_recursive(n - 1) + fibonacci_recursive(n - 2);
}

// Iterative Fibonacci
int fibonacci_iterative(int n) {
    if (n <= 1) return n;

    int a = 0, b = 1, c;
    for (int i = 2; i <= n; i++) {
        c = a + b;
        a = b;
        b = c;
    }
    return b;
}

int main() {
    int n = 10;

    // Recursive Fibonacci
    cout << "Recursive Fibonacci(" << n << "): " << fibonacci_recursive(n) << endl;

    // Iterative Fibonacci
    cout << "Iterative Fibonacci(" << n << "): " << fibonacci_iterative(n) << endl;

    return 0;
}

```