Iterative and Recursive Fibonacci Number Calculator’s Running Times

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Program (C++):

int main()

{

auto start = high\_resolution\_clock::now();

cout << "Recursion: F(30) = " << fibRecursion(30) << endl;

auto stop = high\_resolution\_clock::now();

auto time = duration\_cast<microseconds>(stop - start);

cout << "Time used: " << time.count() << " microseconds\n\n";

auto start1 = high\_resolution\_clock::now();

cout << "Iterative: F(30) = " << fibIteration(30) << endl;

auto stop1 = high\_resolution\_clock::now();

auto time1 = duration\_cast<microseconds>(stop1 - start1);

cout << "Time used: " << time1.count() << " microseconds\n\n";

return 0;

}

Example Output:

