1. Write a program that generates the first 20 terms of the Fibonacci sequence using a for loop.

Fibonacci sequence: is a sequence in which each number is the sum

of the two preceding ones.

#include <iostream>

using namespace std ;

int main() {

int n = 20 ;

long long fib[n];

fib[0] = 0;

fib[1] = 1;

for (int i = 2; i < n; i++) {

fib[i] = fib[i - 1] + fib[i - 2];

}

cout << "Fibonacci :" << endl;

for (int i = 0; i < n; i++) {

cout << fib[i] << " ";

}

cout << endl;

return 0;

}

