

copilot\_test.cpp > main()

```
1 // Write a function that returns the Fibonacci sequence up to n
2 // add using namespace std and remove all std:: prefixes
3 #include <iostream>
4 #include <vector>
5
6 using namespace std;
7
8 vector<int> fiboSeq(int n) {
9     vector<int> fib;
10    int a = 0, b = 1;
11    while (a <= n) {
12        fib.push_back(a);
13        int temp = a;
14        a = b;
15        b = temp + b;
16    }
17    return fib;
18 }
```

```
int main() {
    int n;
    cout << "Enter a number: ";
    cin >> n;
    vector<int> fib_sequence = fiboSeq(n);
    cout << "Fibonacci sequence up to " << n << ": ";
    for (int num : fib_sequence) {
        cout << num << " ";
    }
    cout << endl;
    return 0;
}
```