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Unit 1 Submission Node 2

CS288 – C++ Programming

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This assignment was actually rather fun. Not sure why, but math is very intriguing. No issues with this one. In CLION, IDE of choice, I have written the nodes out as header files and instantiate the class within the main executable, dependent on which choice is made.

**Fibonacci.h File**

// fibonacci generator  
  
#include <iostream>  
  
**using namespace** std;  
  
**class** FibSeries {  
**public**:  
 **void** fibSeries() {  
 **int** length, count, first{0}, second{1}, next;  
  
 cout << "How many iterations would you like? " << endl;  
 cin >> length;  
  
 cout << "The first " << length << " iterations of the Fibonacci series are: " << endl;  
  
 **for** (count = 0; count < length; count++) {  
 **if** (count <= 1)  
 next = count;  
 **else** {  
 next = first + second;  
 first = second;  
 second = next;  
 }  
 cout << next << endl;  
 }  
 }  
};  
  
//  
// Created by Ian Sabey on 10/17/18.  
//

Here is my main executable which instantiates this class if ‘fibSeries’ is entered upon execution.

**main.cpp File**

// main file to determine which submission node to run  
#include "Calculator.h"  
#include "Fibonacci.h"  
#include <string>  
#include <iostream>  
  
**using namespace** std;  
  
**int** main() {  
 cout << "Welcome to Unit 1. Which file would you like to run? (calc or fibSeries)? ";  
 string fileChoice;  
 cin >> fileChoice;  
 **if** (fileChoice == "calc") {  
 Calculator calculator;  
 calculator.calcMain();  
 main();  
 }  
 **else if** (fileChoice == "fibSeries") {  
 FibSeries fibSeries;  
 fibSeries.fibSeries();  
 main();  
 }  
}  
  
//  
// Created by Ian Sabey on 10/17/18.  
//

For good measure, these screenshots show when I committed this code within my personal private repository, one from CLION and one from the repo to compare commit hashes.



