

Analyzing Source Code of XYZ Project

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Preface

XYZ Project: <https://github.com/xyz>

three example c++ directories and 1 print code folder

- dir-a
- dir-b
- dir-c

engter into print code folder and run the bash file

Chapter 1

sourcecode- a/helloworld.cpp

```
1 // Your First C++ Program
2
3 #include <iostream>
4
5 int main() {
6     std::cout << "Hello World!";
7     return 0;
8 }
```

Chapter 2

sourcecode-b/fibonacci.cpp

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int n, t1 = 0, t2 = 1, nextTerm = 0;
7
8     cout << "Enter the number of terms: ";
9     cin >> n;
10
11     cout << "Fibonacci Series: ";
12
13     for (int i = 1; i <= n; ++i)
14     {
15         // Prints the first two terms.
16         if(i == 1)
17         {
18             cout << " " << t1;
19             continue;
20         }
21         if(i == 2)
22         {
23             cout << t2 << " ";
24             continue;
25         }
26         nextTerm = t1 + t2;
27         t1 = t2;
28         t2 = nextTerm;
29
30         cout << nextTerm << " ";
```

```
31     }  
32     return 0;  
33 }
```

Chapter 3

sourcecode-c/Date.cpp

```
1 #include "Date.h"
2
3 // Date constructor
4 Date::Date(int year, int month, int day)
5 {
6     SetDate(year, month, day);
7 }
8
9 // Date member function
10 void Date::SetDate(int year, int month, int day)
11 {
12     m_month = month;
13     m_day = day;
14     m_year = year;
15 }
```

Chapter 4

sourcecode-c/Date.h

```
1  ifndef DATEH
2  #define DATEH
3
4  class Date
5  {
6  private:
7      int m_year;
8      int m_month;
9      int m_day;
10
11 public:
12     Date(int year, int month, int day);
13
14     void SetDate(int year, int month, int day);
15
16     int getYear() { return m_year; }
17     int getMonth() { return m_month; }
18     int getDay() { return m_day; }
19 };
20
21 #endif
```
