SABlythe / **CSC24400-Spring2021**

☆ **2** stars   ⑂ **0** forks

☆ Star   🔔 Notifications

<> **Code**   ⓘ Issues   ⑂↓ Pull requests   ▶ Actions   ⊞ Projects   🛡 Security   📈 Insights

⑂ **main** ▾   · · ·

CSC24400-Spring2021 / **Complex_2_11** / **main.cpp**

SABlythe Updated main to use newer Complex class   🕘 **History**

👥 **1** contributor

Raw   Blame   🖥 ✏ 🗑

59 lines (39 sloc)   985 Bytes

```cpp
1    // Author: S. Blythe
2    // Date: 2/16/21
3
4
5    #include "Complex.hpp"
6
7    #include <iostream>
8    using namespace std;
9
10   int main(int argc, char *argv[])
11   {
12     Complex num1(3,8);  // almost like Java:   Complex num1= new Complex(3,8);
13     Complex num2(-2,4);
14
15     Complex otherNumber(0, -9);
16     cout << otherNumber << endl;
17
18     cout << num1;
19     cout << endl;
20
21     cout << num2;
22     cout << endl;
23
```

```cpp
24
25        Complex sum;
26
27        sum = num1 + num2;
28        /*  C++ internally rewrites the above as
29               sum = num1.operator+(num2);
30        */
31
32        cout << sum << endl;
33
34        // operator<< ( operator<< (cout, sum) , endl );
35
36
37        sum = num1 + 7;
38        // sum = num1.operator+(7);
39
40        cout << sum;
41        cout << endl;
42
43        sum = 7 + num1;
44        // sum = 7.operator+(num1); //ERROR - 7 is not an object
45        // or
46        // sum = operator+(7,num1); // WORKS! if the function is coded ...
47
48        cout << sum;
49        // cout.operator<<(sum);
50        //    or
51        // operator<<(cout, sum);
52        cout << endl;
53
54
55        sum.imaginary()=-3.14159;
56
57        cout << sum << endl;
58        return 0;
59    }
```