```cpp
1  //
2  // Shaun Chemplavil U08713628
3  // shaun.chemplavil@gmail.com
4  // C/C++ Programming III : Intermediate Programming with Objects
5  // 151116  Raymond L. Mitchell III
6  // Complex.h
7  // Win10
8  // Visual C++ 19.0
9  //
10 // File contains the SavingsAccount class definition
11 //
12
13 #ifndef SHAUNCHEMPLAVIL_COMPLEX_H
14 #define SHAUNCHEMPLAVIL_COMPLEX_H
15
16 #include<iostream>
17
18 using std::ostream;
19 using std::istream;
20
21 namespace ShaunChemplavil
22 {
23    class Complex
24    {
25       friend ostream &operator<<(ostream &out, const Complex &value);
26       friend istream &operator>>(istream &in, Complex &value);
27       friend Complex operator+(const Complex &op1, const Complex &op2);
28       friend Complex operator-(const Complex &op1, const Complex &op2);
29       friend bool operator==(const Complex &op1, const Complex &op2);
30       friend bool operator!=(const Complex &op1, const Complex &op2);
31
32    public:
33       // Constructors  (need to default member variables to 0.0)
34       Complex();
35       Complex(double real);
36       Complex(double real, double imaginary);
37
38    private:
39       double real;
40       double imaginary;
41    };
42 }
43
44 #endif
45
```