

Operator Overloading

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```
#include<iostream>
using namespace std;
class Complex
{
private:
    int real, img;
public:
    Complex(int r = 0, int i = 0){
        real = r;
        img = i;
    }
    Complex add(const Complex& num) const {
        return Complex(real + num.real, img + num.img);
    }
    Complex operator+(const Complex& num) const {
        return Complex(real + num.real, img + num.img);
    }
    void display() const {
        std::cout << real << " + " << img << "i" << std::endl;
    }
};

int main() {
    Complex a(5,4);
    Complex b(5,4);
    Complex c = a + b;
    c.display();
    Complex d = a.add(b);
    d.display();
    return 0;
}
```

```

class Complex
{
    private:
        int real;
        int img;

    public:

    friend Complex operator+(Complex c1, Complex c2)
    {

```

```

        Complex operator+(Complex c1, Complex c2)
        {
            Complex t;
            t.real = c1.real + c2.real;
            t.img = c1.img + c2.img;
            return t;
        }

```