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/*Implement a class Complex which represents the Complex Number data type.
Implement the following
1. Constructor (including a default constructor which creates the complex
number 0+0i).
2. Overload operator+ to add two complex numbers.
Overload operator* to multiply two complex numbers.
4. Overload operators << and >> to print and read Complex Numbers.*/
#include<iostream>
using namespace std;
class complex
    double imag;
    double real;
    public:
    complex():imag(0), real(0){};
    complex(double re, double im):imag(im),real(re){};
    complex operator + (complex obj)
        return complex(obj.real + real, obj.imag + imag);
    }
    complex operator * (complex obj)
        return complex(obj.real * real - obj.imag * imag, obj.real * imag + real *
obj.imag);
    friend istream& operator >>(istream& in, complex& obj)
    {
        cout << "Enter the real and imaginary part: ";
        in>>obj.real>>obj.imag;
        return in;
    }
    friend ostream& operator <<(ostream& out, complex& obj)</pre>
        out<<obj.real<<" + "<<obj.imag<<"i"<<endl;</pre>
        return out;
    }
};
int main()
    complex obj1;
    complex obj2;
    cin>>obj1;
    cin>>obj2;
    // complex ans = obj1 + obj2;
    complex ans2 = obj1 * obj2;
    // cout<<ans;</pre>
    cout << ans2;
    return 0;
}
```