**Write a program to overload stream operators to read complex number and display the complex number in a+ib format.**

**#include <iostream>**

**using namespace std;**

**class Complex{**

**private:**

**int real, img;**

**public:**

**Complex(int r, int i):real(r),img(i){};**

**friend ostream& operator<<(ostream& a, Complex c);**

**};**

**ostream& operator<<(ostream& a, Complex c)**

**{**

**a << c.real << "+i" << c.img;**

**}**

**int main()**

**{**

**Complex w(1,3);**

**cout << w;**

**return 0;**

**}**

**#include<iostream>//or**

**using namespace std;**

**class complex**

**{**

**int real,imag;**

**public:**

**complex(){};**

**friend istream& operator >> (istream&,complex&);**

**friend ostream& operator <<(ostream&,complex&);**

**};**

**istream& operator>>(istream& in,complex& obj)**

**{**

**cout<<"Enter the complex nunmber:"<<endl;**

**cout<<"Real part:";**

**in>>obj.real;**

**cout<<"Imaginary part:";**

**in>>obj.imag;**

**return in;**

**}**

**ostream& operator<< (ostream& out,complex& obj)**

**{**

**out<<"Entered complex number:"<<obj.real<<" + "<<obj.imag<<" i";**

**return out;**

**}**

**int main()**

**{**

**complex num;**

**cin>>num;**

**cout<<num;**

**}**