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;
}
```