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**7.1**

#include<iostream>

using namespace std;

class Complex

{

private:

float real;

float imag;

public:

Complex(float x=0,float y=0):real(x),imag(y){}

friend Complex operator\*(const Complex& ca, const Complex& cb);

void show();

};

void Complex::show()

{

cout<< real;

if (imag >= 0)

{

cout<< "+";

}

cout<< imag << "i"<<endl;

}

Complex operator\*(const Complex& ca, const Complex& cb)

{

return Complex(ca.real \* cb.real - ca.imag \* cb.imag,

ca.real \* cb.imag - cb.real \* ca.imag);

}

int main(void)

{

Complex c1(3, 5);

Complex c2(4, 6);

Complex c3 = c1 \* c2;

c3.show();

return 0;

}

程序结果：-18-2i

感想： 对双目运算符而言，成员运算符重载函数的形参表中仅有一个参数，它作为运算符的右操作数。另一个操作数（左操作数）是隐含的，是该类的当前对象，他是通过this指针隐含传递给函数。