

第8章 C++面向对象程序设计基础习题

阅读程序，写出运行结果，然后上机运行，将机器运行结果与人工运行的结果进行比较，并对每一行输出做出分析。

1.

```
#include <iostream>
using namespace std;
class MyClass {
public: MyClass();
    MyClass(int xx);
    MyClass(int xx,int yy);
    MyClass(MyClass &);
    void Display();
    void Set(int, int);
    ~ MyClass();
private:  int x,y;
};
MyClass:: MyClass() {
    cout<<"执行无参构造函数: ";
    x=0;y=0;
    cout<<"x="<<x<<"y="<<y<<endl; }
MyClass:: MyClass(int xx) {
    cout<<"执行一个参数构造函数: ";
    x=xx;y=0;
    cout<<"x="<<x<<"y="<<y<<endl; }
MyClass:: MyClass(int xx,int yy) {
    cout<<"执行两个参数构造函数: ";
    x=xx;y=yy;
    cout<<"x="<<x<<"y="<<y<<endl; }
MyClass:: MyClass(MyClass &a) {
    cout<<"执行复制构造函数: ";
    x=a.x;y=a.y;
    cout<<"x="<<x<<"y="<<y<<endl; }
void MyClass:: Display() {
    cout<<"执行显示函数: ";
    cout<<"x="<<x<<"y="<<y<<endl; }
void MyClass:: Set(int xx=0,int yy=0) {
    cout<<"执行设置函数: ";
    x=xx;y=yy;
    cout<<"x="<<x<<"y="<<y<<endl; }
MyClass:: ~MyClass () {
    cout<<"执行析构函数: ";
    cout<<"x="<<x<<"y="<<y<<endl; }
int main() {
```

```

        MyClass a(12,34);
        a.Set(20);
        a.Display();
        MyClass b(a);
        b.Display();
        MyClass c;
        MyClass d(222);
        { MyClass e(788,453); d.Display();}
        c.Display();
        return 0;
}

```

2.

```

#include <iostream>
using namespace std;
class Complex {
public: Complex();
Complex (double x, double y);
Complex (Complex & c);
~ Complex ();
double GetRel() { return rel;}
double GetImg() { return img;}
private: double rel, img;
};
Complex::Complex()
{ rel=0; img=0;
cout<<"缺省构造函数被调用: ";
cout<<"("<<rel<<","<<img<<")"<<endl;
}
Complex::Complex(double x, double y)
{ rel=x; img=y;
cout<<"构造函数被调用: ("<<rel<<","<<img<<")"<<endl;
}
Complex::Complex(Complex & c)
{ rel = c.rel;
img = c.img;
cout<<"复制构造函数被调用: ";
cout<<"("<<rel<<","<<img<<")"<<endl;
}
Complex::~~ Complex ()
{ cout<<"析构造函数被调用: ("<<rel<<","<<img<<")"<<endl; }
//函数定义
Complex fun(Complex c) {
cout<<"在函数 fun()中."<<endl;
}

```

```
        double x, y;  
        x=c.GetRel()*10;  
        y=c.GetImg()+100;  
        Complex temp(x, y);}  
void main() {  
    Complex c1(6.8, 98.23),c2;  
    c2=fun(c1);  
    cout<<"c2=("<<c2.GetRel()<<" ";  
    cout<<c2.GetImg()<<")"<<endl;  
}
```