第1题

```
/*
    阅读下面程序并回答问题
*/
struct A {
    int i;
    int j;
    operator int() { return i + j; }
    A(int x, int y):i(x),j(y){}
} a = { 1,2 };

struct B :A {
    int m;
    int n;
    operator A() { return A(i, j); }
    operator int() { return A(*this) + m + n; }
    B(int x, int y, int m, int n) :A(x, y), m(m), n(n){}
} b = { a,a,3,4 };

void test() {
    /*
        下面语句执行以后，i的值是多少？请说明详细计算过程
    */
    int i = a + b;
    std::cout << "i = " << i << std::endl;
}
```

第2题

```
/*
    阅读下面程序并回答问题
*/
struct A {
    int x;
    static int y;
public:
    operator int() { return x + y; }
    A& operator+=(const A& a);
    A operator++(int);
    A(int x = 1, int y = 1) :x(x) { A::y = y; }
};
int A::y = 20;
A& A::operator+=(const A& a) {
    x += a.x;
    y += a.y;
    return *this;
}
A A::operator++(int) {
    return A(x++, y++);
}
```

```
void test() {
    A a(2, 5), b(6), c;
    /*
        下面每条语句执行完后，i的值是多少，对象a，b，c的内容分别是多少
    */
    int i = b.y;
    i = a++;
    i = a + c;
    i = (b += c);
}
```