

1) Example5.java

```
1 package composite.e5;
2
3 public class Example5 {
4
5     static void addData(MyCollection col, int count) {
6         for (int i = 0; i < count; ++i)
7             col.add( i % 2 == 0 ? new MyInt(i) : new MyStr(i) );
8     }
9
10    static MyCollection createComposite(MyCollection col) throws CloneNotSupportedException {
11        MyCollection c1 = col.clone(), c2 = col.clone(), c3 = col.clone();
12        addData(c1, 3);
13        addData(c2, 3);
14        addData(c3, 3);
15        c2.add(c1);
16        c3.add(c2);
17        return c3;
18    }
19
20    static void testComposite(MyCollection col) throws CloneNotSupportedException {
21        MyCollection c1 = createComposite(col);
22        MyCollection c2 = createComposite(col);
23
24        System.out.println(c1.equals(c2));
25        System.out.println(c1);
26    }
27
28    public static void main(String[] args) throws CloneNotSupportedException {
29        testComposite(new MyArray());
30        testComposite(new MyList());
31        testComposite(new MyHashSet());
32    }
33 }
```

실행

```
true
MyArray( MyInt(0) MyStr(1) MyInt(2) MyArray( MyInt(0) MyStr(1) MyInt(2) MyArray( MyInt(0) MyStr(1)
MyInt(2) ) ) )
true
MyList( MyInt(0) MyStr(1) MyInt(2) MyList( MyInt(0) MyStr(1) MyInt(2) MyList( MyInt(0) MyStr(1)
MyInt(2) ) ) )
true
MyHashSet( MyInt(0) MyStr(1) MyHashSet( MyInt(0) MyStr(1) MyHashSet( MyInt(0) MyStr(1) MyInt(2) )
MyInt(2) ) MyInt(2) )
```