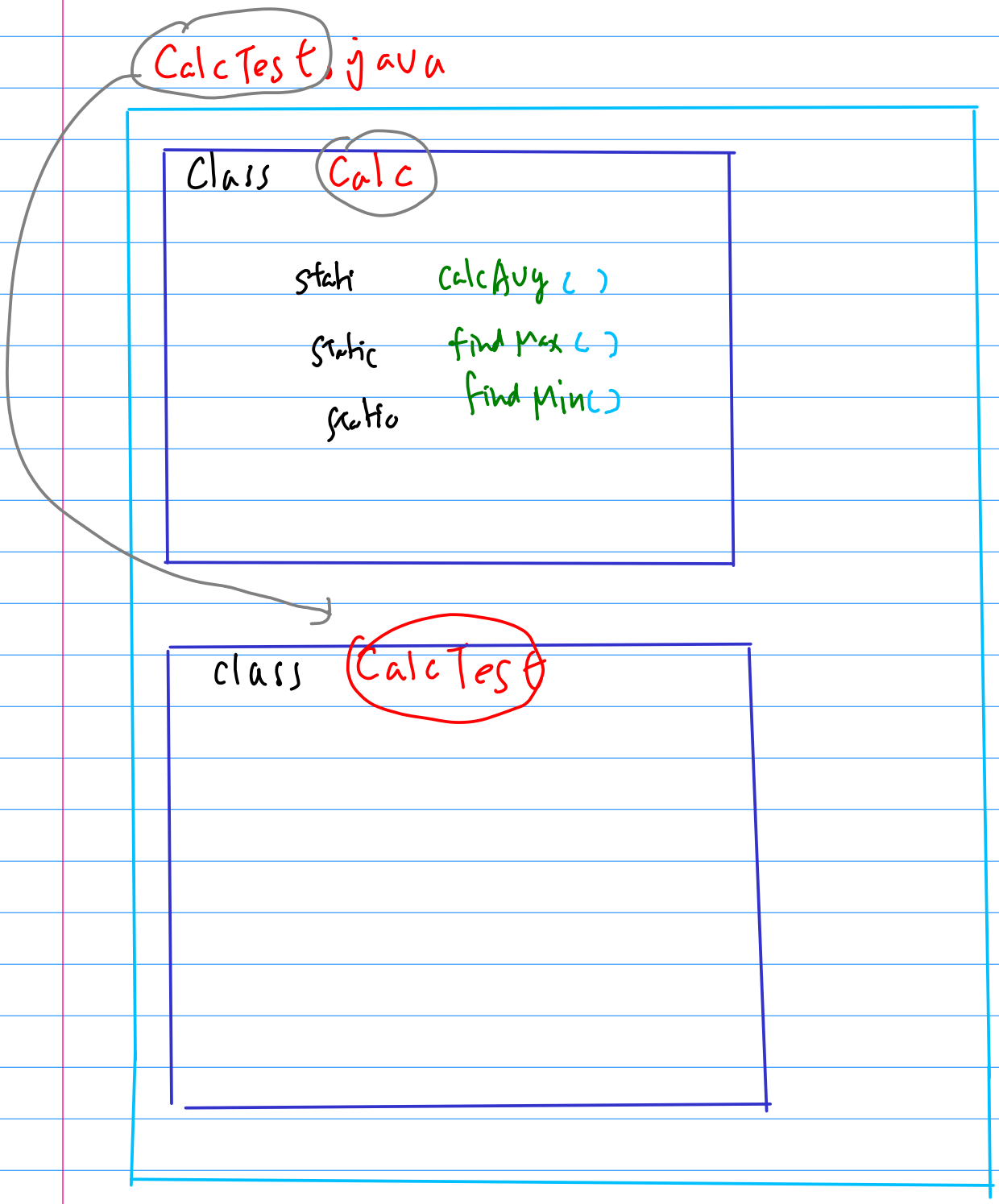
Day08 (H1)

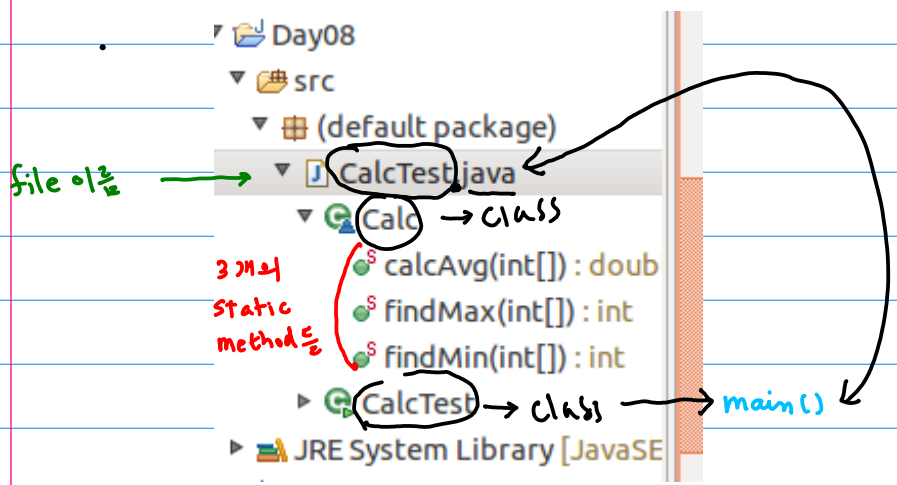
20150819

Calc class
CalcTest class
X class


CalcTest.java
class Calc
static calcAvg()
static findMax()
static findMin()
class CalcTest

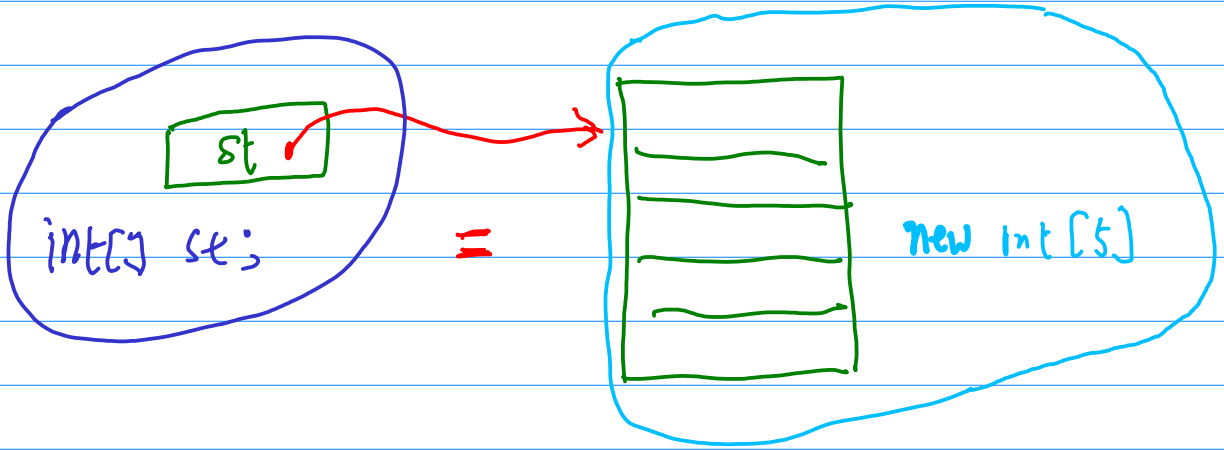
CalcTest.java

```
class Calc {
    public static double calcAvg(int[] a) {
        int i, Sum = 0;  double Avg;
        for (i=0; i<a.length; ++i) Sum += a[i];
        Avg = (double) Sum / a.length;
        return Avg;
    }

    public static int findMax(int[] a) {
        int i, max = -1;
        for (i=0; i<a.length; ++i)
            if (max < a[i]) max = a[i];
        return max;
    }

    public static int findMin(int[] a) {
        int i, min = 999;
        for (i=0; i<a.length; ++i)
            if (min > a[i]) min = a[i];
        return min;
    }

}
```



CalcTest.java

```java
public class CalcTest {
    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int[] st = new int[5];

        st[0] = 80; st[1] = 95; st[2] = 99;
        st[3] = 92; st[4] = 85;

        System.out.println("st.length= " + st.length);

        int i;
        for (i=0; i<5; ++i) {
            System.out.println("st[" + i + "]= " + st[i]);
        }

        double Avg = Calc.calcAvg( st );
        int max    = Calc.findMax( st );
        int min    = Calc.findMin( st );

        System.out.println("Avg= " + Avg);
        System.out.println("max= " + max);
        System.out.println("min= " + min);
```



int[] st = new int[5];

CalcTest class의 main 함수에 있는 부분

```
class CalcTest {
    .... main ( .... ) {

        double Avg = calcAvg( st );
        int max    = Calc.findMax( st );
        int min    = Calc.findMin( st );

    }
}
```

함수들은 CalcTest class 내의 method

Calc.findMax()

Calc class 내의 member 함수 임을 표시

Static method 이어서

~~객체이름~~. findMax() 아니고

class 이름. finMax() 임

X class

2개의 입력

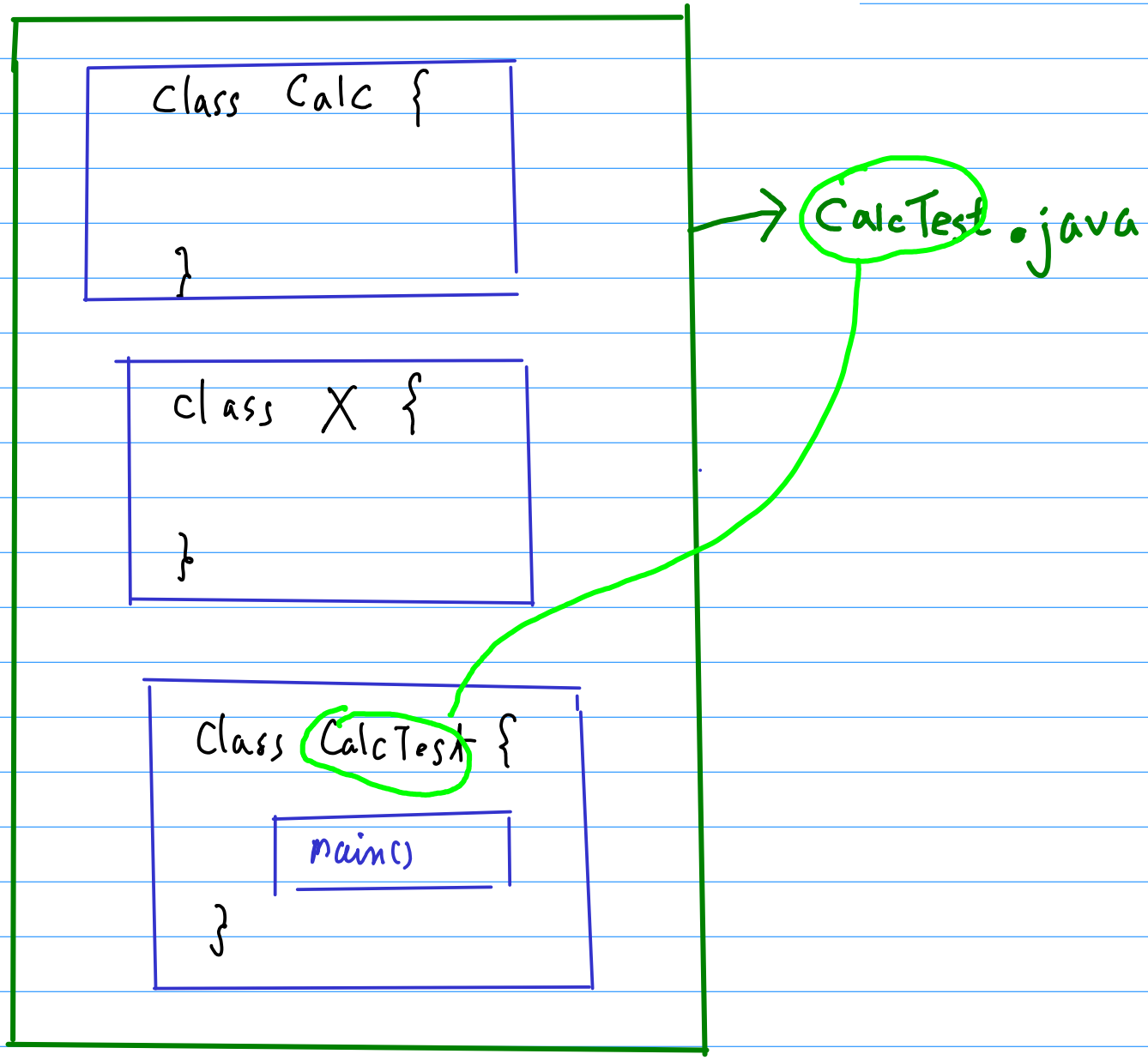
class 이름

함수이름

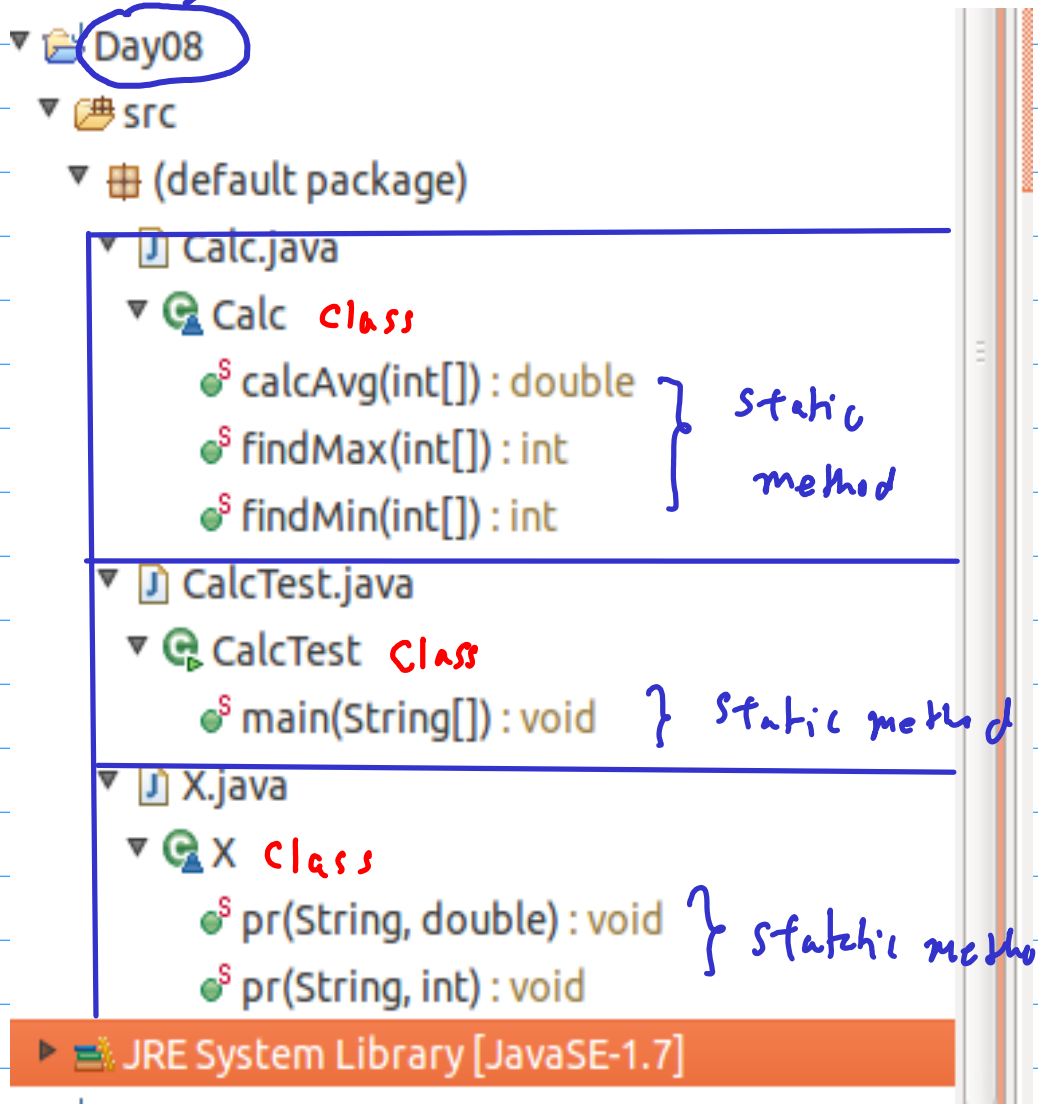
"max="

max

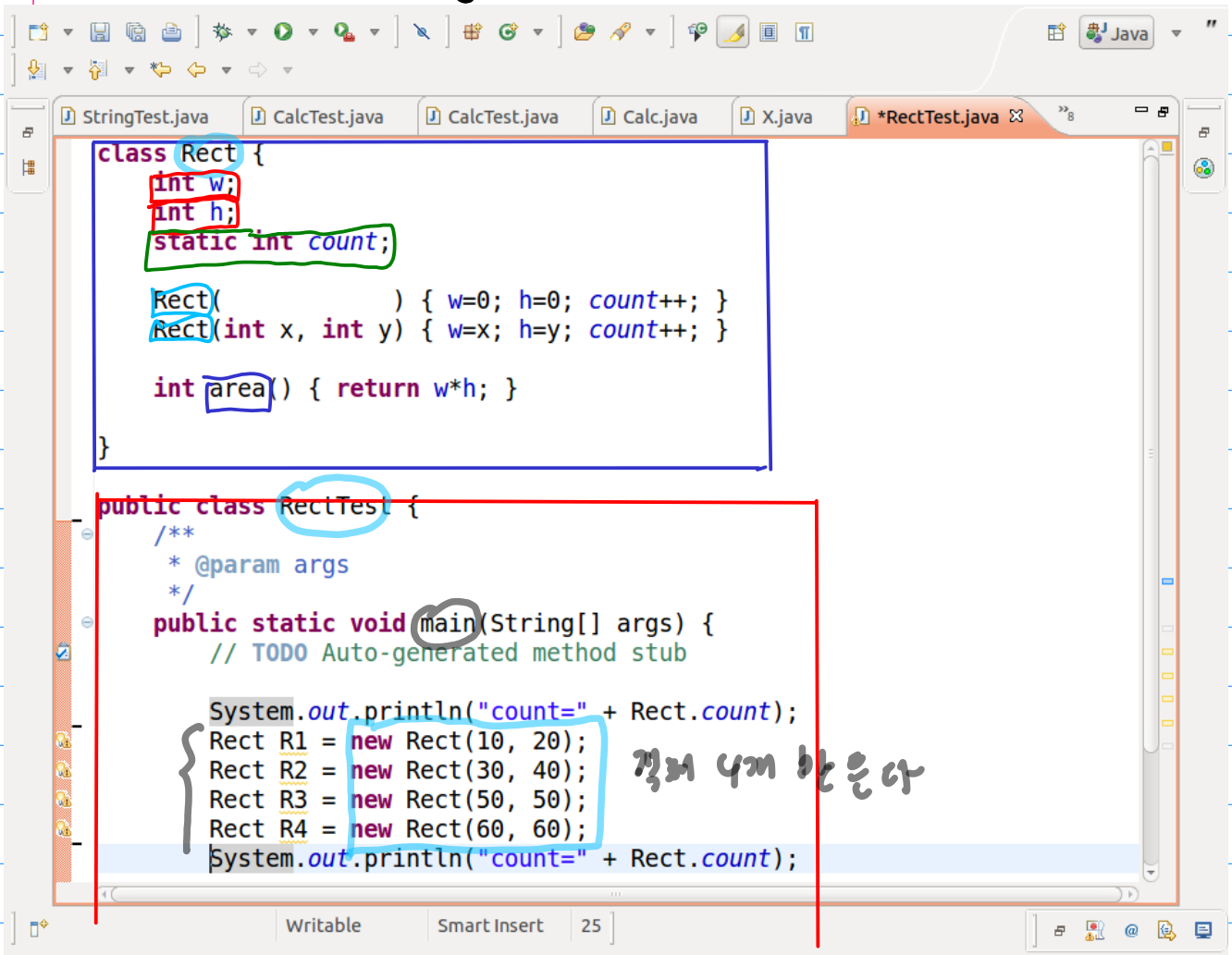
```
class X {
    public static void pr(String s, int a) {
        System.out.println(s + a);
    }

}
```



project 이름


Day08
src
(default package)
Calc.java
Calc class
calcAvg(int[]) : double
findMax(int[]) : int
findMin(int[]) : int
static method
CalcTest.java
CalcTest class
main(String[]) : void
static method
X.java
X class
pr(String, double) : void
pr(String, int) : void
static method
JRE System Library [JavaSE-1.7]

RectTest.java



```java
System.out.println("count=" + Rect.count);
Rect R1 = new Rect(10, 20);
Rect R2 = new Rect(30, 40);
Rect R3 = new Rect(50, 50);
Rect R4 = new Rect(60, 60);
System.out.println("count=" + Rect.count);
```

객체 4개!