

```
1  /*
2  PointTester.java    MrG    2018.0227
3  purpose:    abstracting a point object like (x,y)
4  required:   PointTester.java    main class
5             Point.java           derived class
6  translator: javac PointTester.java
7  interpreter: java PointTester
8  */
9
10 public class PointTester
11 {
12     public static void main(String[] args)
13     {
14         Point p1 = new Point(3,4);
15         Point p2 = new Point(3,4);
16
17         System.out.println("p1 = " + p1);
18         System.out.println("p2 = " + p2);
19
20         System.out.print("length of line segment from p1 to p2: ");
21         System.out.println(p1.length(p2));
22
23         if(p1.equals(p2))
24         {
25             System.out.println("p1 is the same point as p2");
26         }
27         else
28         {
29             System.out.println("p1 is NOT the same point as p2");
30         }
31
32         if(p1.compareTo(p2)>0)
33         {
34             System.out.println("p1>p2");
35         }
36         if(p1.compareTo(p2)<0)
37         {
38             System.out.println("p1<p2");
39         }
40         if(p1.compareTo(p2)==0)
41         {
42             System.out.println("p1==p2");
43         }
44     }
45 }
```

