

Line.java

```
1 // Line.java
2
3 class Line {
4
5     Point start, end;
6     private static int classID = 0;
7     private int objID;
8
9     /*
10      * Default constructor, makes a line from two points, where each point is the end of the
11      line.
12      */
13     public Line(Point a, Point b) {
14         start = a;
15         end = b;
16         objID = ++ classID;
17     }
18
19     public double distance(){
20         return Point.distance(start, end);
21     }
22
23     public String toString()
24     {
25         // Intended Format:
26         // Line 1: starts at (20, 30), and ends at (50, 100)
27
28         String s = "Line " + objID + ": starts at " + start.toString() + " and ends at " +
29 end.toString();
30         return s;
31     }
32 }
```