

```
1  /*
2  PolygonTester.java MrG 2018.0306
3  purpose:   abstracting a polygon with an ArrayList<Point>
4  required:  PolygonTester.java      main class
5             Polygon.java           derived class
6             Point.java             utility class
7  translator: javac PolygonTester.java
8  interpreter: java PolygonTester
9  */
10 public class PolygonTester
11 {
12     public static void main(String[] args)
13     {
14         Point p1 = new Point(1,1);
15         Point p2 = new Point(4,1);
16         Point p3 = new Point(4,5);
17
18         Polygon tri = new Polygon();
19
20         tri.addPoint(p1);
21         tri.addPoint(p2);
22         tri.addPoint(p3);
23
24         System.out.println("tri = " + tri);
25         System.out.println("perimeter = " + tri.perimeter());
26         System.out.println("area = " + tri.area());
27     }
28 }
```