```
//Polygon.java MrG 2018.0306
     import java.util.ArrayList;
 2
 3
     public class Polygon
 4
 5
         private ArrayList<Point> corners;
 6
 7
         public Polygon()
 8
 9
             corners = new ArrayList<Point>();
10
11
12
         public void addPoint(Point p)
13
14
             corners.add(p);
15
         }
16
17
         public String toString()
18
             String temp="";
19
20
             for(Point p: corners)
21
22
                 temp+=p.toString();
23
24
             return temp;
25
             //return corners.toString();
26
         }
27
28
         public double perimeter()
29
30
             double sum=0.0;
31
             for(int i=0; i<corners.size(); i++)</pre>
32
33
                 sum+=corners.get(i).length(corners.get((i+1)%corners.size()));
34
35
             return sum;
36
         }
37
38
         public double area()
39
40
             double sum=0.0;
41
             for(int i=0; i<corners.size(); i++)</pre>
42
                 sum+=corners.get(i).getX()*corners.get((i+1)%corners.size()).getY();
43
44
                 sum-=corners.get(i).getY()*corners.get((i+1)%corners.size()).getX();
45
```