

Shape.java

```
1 import java.lang.Object;
2 import java.awt.*;
3
4
5 public abstract class Shape implements ShapePositionInterface {
6     public Shape()
7     {
8         this(0,0,Color.black);
9     }
10
11     public Shape(int x)
12     {
13         this(x,0,Color.black);
14     }
15
16     public Shape(Color color)
17     {
18         this(0,0,color);
19     }
20
21     public Shape(int x, int y, Color color)
22     {
23         if(x < 0)
24             x = 0;
25         if(y < 0)
26             y = 0;
27         this.x = x;
28         this.y = y;
29         this.color = color;
30     }
31
32     public int getX()
33     {
34         return x;
35     }
36
37     public int getY()
38     {
39         return y;
40     }
41
42     public Color getColor()
43     {
44         return color;
45     }
46
47     public void setX(int x)
48     {
49         this.x = x;
50     }
51
52     public void setY(int y)
53     {
54         this.y = y;
55     }
56
57     public void setColor(Color color)
```

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```
58 {
59     this.color = color;
60 }
61
62 public void shiftXY(int x, int y)
63 {
64     this.x += x;
65     this.y += y;
66 }
67
68 public Point getPoint()
69 {
70     return new Point(x,y);
71 }
72
73 public String toString()
74 {
75     return "(" + x + ", " + y + ", " + color;
76 }
77
78 public void draw(Graphics g)
79 {
80     g.setColor(color);
81     int height = (int)g.getClipBounds().getHeight();
82     int width = (int)g.getClipBounds().getWidth();
83     g.fillRect(0,0,width,height);
84 }
85
86 private int x;
87 private int y;
88 private Color color;
89 }
```