61050193,61050150

1.1

```
1 // 61050150, 61050193
 3⊕ import java.awt.*:□
 6 class CG_1_1 extends JPanel {
7⊖ public static void main(String[] args) {
           CG_1_1 m = new CG_1_1();
JFrame f = new JFrame();
             f.add(m);
             f.setTitle("CG_1_1");
11
12
             f.setSize(20, 20);
13
             f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
             f.setVisible(true);
14
15
        public void paintComponent(Graphics g) {
16⊜
             int diameter = 18;
int radius = diameter/2;
18
              // Outer upper circle
              g.setColor(Color.BLACK);
              g.fillArc(0, 0, diameter, diameter, 0, 180);
    // Outer lower circle
g.setColor(Color.WHITE);
              g.fillArc(0, 0, diameter, diameter, 0, -180);
              // Inner upper circle (white) - left side
              g.setColor(Color.WHITE);
g.fillArc(0, diameter/4+1, radius, radius, 0, 180);
              // Inner lower circle (black) - right side
g.setColor(Color.BLACK);
              g.fillArc(radius, diameter/4, radius, radius, 0, -180);
              // Inner left circle (black on white)
             g.setColor(Color.BLACK);
g.fillArc(diameter/4-radius/8, diameter/2-radius/8, radius/4, radius/4, 0, 360);
38
39
              // Inner right circle (white on black)
              g.setColor(Color.WHITE);
              g.fillArc(diameter/2+(radius/8)*3, diameter/2-radius/8, radius/4, radius/4, 0, 360);
41
43
44
   }
```

1.2

```
1 // 61050150, 61050193
  2⊕ import javax.imageio.ImageIO;
           ass CG_12 extends JPanel{
static int[][] arrayPic = new int [10000][10000];
public static void getImg() throws IOException {
    final BufferedImage img = ImageIO.read(new File("./87424515_624640561429876_8166247668956266496_n.jpg"));
    final BufferedImage bufferedImage = new BufferedImage(img.getWidth(null), img.getHeight(null),BufferedImage.TYPE_INT_RGB);
    for (int i = 0; i < img.getHeight(); i++) {
        final Color c = new Color(img.getRGB(j, i));
        arrayPic[i][(j * 3) + 1] = c.getRed();
        arrayPic[i][(j * 3) + 2] = c.getGreen();
        arrayPic[i][(j * 3) + 2] = c.getBule();
    }
}</pre>
13
15
19
20
21
                    }
                }
22
23
             24⊝
26
28
                        g.fillRect(j, i, 1, 1);
29
                    }
                }
30
31
32⊜
             public static void main(String[] args) throws IOException {
                CG_1_2 m = new CG_1_2();
JFrame f = new JFrame();
33
                 f.add(m);
f.setSize(640, 960);
35
36
                  f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
37
                  f.setVisible(true);
39
                getImg();
41 }
```