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import java.awt.Dimension;
import java.awt.Graphics;
import java.util.Random;
import java.awt.Color;
import javax.swing.JPanel;
import javax.swing.JFrame;

public class CoolStars extends JPanel {

    // Unique version ID for this class to ensure saved objects can be
    loaded safely
    private static final long serialVersionUID = 1L;

    // Initial width of height of the window
    private static int width = 1000;
    private static int height = 650;

    // main method to launch the program as a standalone application -
    no need to modify
    public static void main(String[] args) {
        CoolStars panel = new CoolStars();
        panel.setPreferredSize(new Dimension(width, height)); //
        content size window dimensions

        JFrame frame = new JFrame("CoolStars"); // Title of frame
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.add(panel);
        frame.pack();
        frame.setVisible(true);
    }

    /**
     * Draws 10 stars (or more) of random sizes in random locations.
     The stars do not have to be fully contained within the panel.
     * @param g the Graphics object used for drawing shapes, text, and
     images
     */
    public void drawStars(Graphics g) {
        //really cool star graphic

        for(int p=0; p<1;p++) {
            Random centerxyay= new Random();
            Random centeryyay= new Random();
            Random Radius1yay= new Random();
            Random Radius2yay= new Random();

            Random max= new Random();
            int t= max.nextInt(30,200);
            int[] x= new int[13];
            int[] y= new int[13];
            int i=0;
            int d=1;

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        int points= 5;
        int centerx= centerxyay.nextInt(0,1000);
        int centery= centeryyay.nextInt(0,650);
        int angle=0;
        int angle2= (int)Math.toRadians(360/(points*2));
        int r= Radius1yay.nextInt(0,t);
        int r2= Radius2yay.nextInt(t,400);
        while(i<12 && d<12) {
            x[i]=(int) (centerx+r*Math.sin(angle));
            y[i]= (int) (centery-r*Math.cos(angle));
            i+=2;
            x[d]=(int) (centerx+r2*Math.sin(angle2));
            y[d]=(int) (centery-r2*Math.cos(angle2));
            angle+=(int) 2*Math.PI/5;
            angle2+=(int) 2*Math.PI/5;
            d+=2;
        }
        int c=0;
        while(c<11) {
            g.drawLine(x[c],y[c], x[c+1], y[c+1]);
            c++;
        }

        c=0;
        while(c<11) {
            g.drawLine(x[c],y[c], x[c+1], y[c+1]);
            c++;
        }
    }

    private Color Color(int i, int j, int k) {
        // TODO Auto-generated method stub
        return null;
    }

    /**
     * Overrides JPanel's paintComponent method to perform custom
drawing.
     * @param g the Graphics object used for drawing shapes, text, and
images
     */
    @Override
    protected void paintComponent(Graphics g) {
        super.paintComponent(g); // Clears the panel before drawing
drawStars(g);
    }
}

```