Planet.java 4/30/2009 import java.awt.*;
import java.io.Serializable; public class Planet implements Serializable public static final long serialVersionUID = -388170342876888144L; double radius; double x, y; public Planet(double radius, double x, double y) this.x = x; this.y = y;this.radius = radius; public boolean contains (Planet other) return Math.sqrt((other.x-x)*(other.x-x) + (other.y-y)*(other.y-y))<= Math.max(radius, other.radius); public double getMass() return (4.0/3.0) *radius*radius*radius*Math.PI;

g.fillOval((int)(x-radius+.5), (int)(y-radius+.5), (int)(radius*2+.5),

public void draw(Graphics g)

(int) (radius*2+.5));

}

g.setColor(Color.BLACK);