**Debugging Driver**

\* NOTE: Highlighted areas show where errors occur in buggy program.

**public class DebugRectangleDriver**

**{**

**package debugrectangledriver;**

**/\*\***

**\* @param args the command line arguments**

**\*/**

**public static void main(String[] args)**

**{**

**Rectangle rectangle1 = new Rectangle();**

**Rectangle rectangle2 = new Rectangle(5.0, 7.0);**

**Rectangle rectangle3 = new Rectangle(10.0, 10.0);**

**System.out.println("=====ORIGINAL RECTANGLES=====");**

**System.out.println("Details of Rectangle1");**

**System.out.println("Length: " + rectangle1.getLength());**

**System.out.println("Width: " + rectangle1.getWidth());**

**System.out.println("Area: " + rectangle1.getArea());**

**if(rectangle1.isASquare())**

**{**

**System.out.println("Rectangle1 is a square!");**

**}**

**else {**

**System.out.println("Rectangle1 is not a square :(");**

**}**

**System.out.println();**

**System.out.println("Details of Rectangle2");**

**System.out.println("Length: " + rectangle2.getLength());**

**System.out.println("Width: " + rectangle2.getWidth());**

**System.out.println("Area: " + rectangle2.getArea());**

**if(rectangle2.isASquare())**

**{**

**System.out.println("Rectangle2 is a square!");**

**}**

**else {**

**System.out.println("Rectangle2 is not a square :(");**

**}**

**System.out.println();**

**System.out.println("Details of Rectangle3");**

**System.out.println("Length: " + rectangle3.getLength());**

**System.out.println("Width: " + rectangle3.getWidth());**

**System.out.println("Area: " + rectangle3.getArea());**

**if(rectangle3.isASquare())**

**{**

**System.out.println("Rectangle3 is a square!");**

**}**

**else {**

**System.out.println("Rectangle3 is not a square :(");**

**}**

**System.out.println();**

**rectangle1.setWidth(6.5);**

**rectangle1.setLength(6.5);**

**rectangle2.setWidth(7);**

**rectangle2.setLength(3);**

**rectangle3.setWidth(4);**

**rectangle3.setLength(9);**

**System.out.println("=====ALTERED RECTANGLES=====");**

**System.out.println("Details of Rectangle1");**

**System.out.println(rectangle1.toString());**

**System.out.println("Area: " + rectangle1.getArea());**

**if(rectangle1.isASquare())**

**{**

**System.out.println("Rectangle1 is a square!");**

**}**

**else {**

**System.out.println("Rectangle1 is not a square :(");**

**}**

**System.out.println();**

**System.out.println("Details of Rectangle2");**

**System.out.println(rectangle2.toString());**

**System.out.println("Area: " + rectangle2.getArea());**

**if(rectangle2.isASquare())**

**{**

**System.out.println("Rectangle2 is a square!");**

**}**

**else {**

**System.out.println("Rectangle2 is not a square :(");**

**}**

**System.out.println();**

**System.out.println("Details of Rectangle3");**

**System.out.println(rectangle3.toString());**

**System.out.println("Area: " + rectangle3.getArea());**

**if(rectangle3.isASquare())**

**{**

**System.out.println("Rectangle3 is a square!");**

**}**

**else {**

**System.out.println("Rectangle3 is not a square :(");**

**}**

**System.out.println();**

**}**

**}**