Strategy homework solution

Class Diagram

Application
+main()
+drawLine()
+drawCircle()
+drawRectangle()

DrawingCanvas
+draw()
+setDrawStrategy()

1

<<interface>>
DrawingStrategy
+draw()

Line
+draw()

Circle
+draw()

Rectangle
+draw()

Sequence Diagram

: Application

: DrawingCanvas

1 : drawLine()

<<create>>
2

: Line

3 : setDrawStrategy()

set the drawing strategy to Line

4 : draw()

5 : draw()

6

The Line Object contains the Line algorithm
and draws the line on the Canvas. The method(s) to
draw the actual line on the canvas is implementation
dependent

7 : drawCircle()

<<create>>
8

: Circle

9 : setDrawStrategy()

set the drawing strategy to Circle

10 : draw()

11 : draw()

12