```java
 1  /* This class extends teh JPanel class and is
 2   * used primarily to contain the Graphical dot-plot
 3   */
 4
 5  import java.awt.*;
 6  import javax.swing.*;
 7  import java.util.*;
 8  import java.io.*;
 9
10  class GraphPane extends JPanel
11  {
12      /*  These are the attributes required for this class.
13       *  Their primary purpose is to fit the graph to the
14       *  panel.
15       */
16      int scaleWidth = 600;
17      int scaleHeight = 600;
18      final int PAD = 20;
19      Image scaledImage;
20      DotPlot dp;
21      String sequence_1 = "";
22      String sequence_2 = "";
23      int window;
24      int threshold;
25
26      /* This is the sole constructor for GraphPane. The
27       *  class is populted from these initial parameters.
28       *
29       */
30      public GraphPane(String sequence_1, String sequence_2, int window, int threshold)
31      {
32          this.window = window;
33          this.threshold = threshold;
34          this.sequence_1 = sequence_1;
35          this.sequence_2 = sequence_2;
36      }
37
38      // Paints the graph to a panel
39      public void paint(Graphics g)
40      {
41          DotPlot dp = new DotPlot();
42          dp = new DotPlot();
43          dp.readInGenome(this.sequence_1,this.sequence_2,this.window,this.threshold);
44          dp.setDimensions();
45          Panel panel = new Panel();
46          panel.setBackground(new Color(235,235,235));
47          add(panel);
48          g.setColor(Color.red);
49          dp.draw(panel);
50          scaledImage = dp.img.getScaledInstance(scaleWidth,scaleHeight,0);
51          g.drawImage(scaledImage,0,0,panel);
52      }
53  }
```