

```
import java.awt.Color;
import java.awt.Graphics;
import java.awt.Point;
public class Line
{
    private Point from;
    private Point to;
    private Color color;

    public Line(int pX1, int pY1, int pX2, int pY2, Color pColor)
    {
        from = new Point(pX1, pY1);
        to = new Point(pX2, pY2);
        color = pColor;
    }

    public Line(Point pFrom, Point pTo, Color pColor)
    {
        from = pFrom;
        to = pTo;
        color = pColor;
    }

    public Point getFrom()
    {
        return from;
    }

    public void setFrom(Point pFrom)
    {
        from = pFrom;
    }

    public Point getTo()
    {
        return to;
    }

    public void setTo(Point pTo)
    {
        to = pTo;
    }

    void setColor(Color pColor)
    {
        color = pColor;
    }

    public void draw(Graphics g)
    {
        // Dessiner la ligne dans la couleur de la ligne
        g.setColor(color);
        g.drawLine(from.x, from.y, to.x, to.y);
    }

    public String toString()
    {
        return "[" + from.x + "," + from.y + "] -> [" + to.x + "," + to.y + "];"
    }
}
```

```
import java.awt.Graphics;
import java.util.ArrayList;
public class Lines
{
    private ArrayList<Line> allLines = new ArrayList<>();

    public void add(Line l)
    {
        allLines.add(l);
    }

    public void clear()
    {
        // allLines = new ArrayList<Line>();
        allLines.clear();
    }

    public void draw(Graphics g)
    {
        // Chaque ligne se dessine elle-même
        for (int i = 0; i < allLines.size(); i++)
            allLines.get(i).draw(g);
    }

    public Object[] toArray()
    {
        return allLines.toArray();
    }
}
```

```
import java.awt.Color;
import java.awt.Graphics;
public class DrawPanel extends javax.swing.JPanel
{
    private Lines lines = null;

    public DrawPanel()
    {
        initComponents();
    }

    public void setLines(Lines l)
    {
        lines = l;
    }

    @Override
    public void paintComponent(Graphics g)
    {
        // Effacer le dessin
        int w = getWidth();
        int h = getHeight();

        g.setColor(Color.WHITE);
        g.fillRect(0, 0, w, h);

        // Dessiner les lignes si présentes
        if (lines != null)
            lines.draw(g);
    }
// Skipped: ... initComponents { ... }
// Variables declaration - do not modify//GEN-BEGIN:variables
// End of variables declaration//GEN-END:variables
}
```

```

import java.awt.Color;
import javax.swing.JColorChooser;
public class MainFrame extends javax.swing.JFrame
{
    private Lines lines = new Lines();
    private Line newLine = null;

    // Couleur à utiliser pour de nouvelles lignes
    private Color drawColor = Color.BLUE;

    public MainFrame()
    {
        initComponents();
        drawPanel.setLines(lines);
        updateView();
    }

    public void updateView()
    {
        linesList.setListData(lines.toArray());
        repaint();
    }
// Skipped: ... initComponents { ... }
    private void drawPanelMouseDragged(java.awt.event.MouseEvent evt) { //GEN-FIRST: event_drawPanelMouseDragged
        newLine.setTo(evt.getPoint());
        updateView();
    } //GEN-LAST: event_drawPanelMouseDragged

    private void drawPanelMousePressed(java.awt.event.MouseEvent evt) { //GEN-FIRST: event_drawPanelMousePressed
        if (evt.getClickCount() == 2)
        {
            lines.clear();
        }
        else
        {
            newLine = new Line(evt.getPoint(), evt.getPoint(), drawColor);
            lines.add(newLine);
        }
        updateView();
    } //GEN-LAST: event_drawPanelMousePressed

    private void drawPanelMouseReleased(java.awt.event.MouseEvent evt) { //GEN-FIRST: event_drawPanelMouseReleased
        newLine.setTo(evt.getPoint());
        updateView();
    } //GEN-LAST: event_drawPanelMouseReleased

    private void changeColorButtonActionPerformed(java.awt.event.ActionEvent evt) //GEN-FIRST: event_changeColorButtonActionPerformed
    { //GEN-HEADEREND: event_changeColorButtonActionPerformed
        drawColor = JColorChooser.showDialog(this, "Choix d'une couleur", drawColor);
        updateView();
    } //GEN-LAST: event_changeColorButtonActionPerformed
// Skipped: ... Look & Feel
    // Variables declaration - do not modify //GEN-BEGIN:variables
    private javax.swing.JButton changeColorButton;
    private DrawPanel drawPanel;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JList linesList;
    // End of variables declaration //GEN-END:variables
}

```