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//CSV Difference Checking Tool
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// Copyright 2009
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// Author: Tom Fallon
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```
import javax.swing.*; // Packages used
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```
import java.awt.*;
```

```
import java.awt.event.*;
```

```
import java.io.*;
```

```
import java.util.Vector;
```

```
public class ListDiff extends JFrame implements ActionListener
```

```
{
```

```
    // Global Variable Declarations
```

```
    // Our list input fields
```

```
private JLabel firstListLabel = new JLabel("Enter First List Name:");
```

```
private JTextField firstListField = new JTextField(25);
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```
private JLabel secondListLabel = new JLabel("Enter Second List Name: ");
```

```
private JTextField secondListField = new JTextField(25);
```

```
// create difference label and button
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```
private JLabel diffLabel = new JLabel("Not Started");
```

```
private JLabel filler = new JLabel();
```

```
private JButton diffButton = new JButton("Difference");
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```
private JScrollPane displayScrollPane;
```

```
private JTextArea display = new JTextArea(10,20);
```

```
// create our vector to hold our first-list
```

```
Vector v = new Vector();

// declare our BufferedReaders for reading the two input files
private BufferedReader inFirst,inSecond;

// declare our FileWriter, which will create our difference file
private FileWriter outDiff;

public ListDiff()
{
    super("List Difference Tool");
    getContentPane().setLayout( new BorderLayout() );

    // create our input panel
    JPanel inputPanel = new JPanel(new GridLayout(2,1));
        inputPanel.add(firstListLabel);
        inputPanel.add(firstListField);
        inputPanel.add(secondListLabel);
        inputPanel.add(secondListField);

    getContentPane().add(inputPanel,"North");

    // add our listeners
    // firstListField.addActionListener(this);
    // secondListField.addActionListener(this);

    // create and populate our diffPanel
    JPanel diffPanel = new JPanel(new GridLayout(1,4,1,1));
    diffPanel.add(diffLabel);
    diffPanel.add(filler);
```

```

diffPanel.add(diffButton);

getContentPane().add(diffPanel, "South");

diffButton.addActionListener(this);

// configure our ScrollPane to contain our display
displayScrollPane = new JScrollPane(display);
getContentPane().add(displayScrollPane, "Center");
display.setLineWrap( true );
display.setEditable( false );

} // ListDiff()

public void actionPerformed(ActionEvent ae)
{
    try
    {
        inFirst = new BufferedReader(new FileReader((firstListField.getText()).trim()));
        String lineFirst = inFirst.readLine();
        while (lineFirst != null)
        {
            v.addElement(lineFirst);
            lineFirst = inFirst.readLine();
        }
    }
    catch(IOException ioe){display.setText(ioe.getMessage());}

    try
    {

```

```

        inSecond = new BufferedReader(new
FileReader((secondListField.getText()).trim()));

        String lineSec = inSecond.readLine();

        // instantiate our FileWrite, which will create our output csv file
        outDiff = new FileWriter("diff.csv");

        // need boolean to discard duplicates from display and output file
        boolean discard = false;

        int countDups = 0;
        while (lineSec != null)
        {
            for (int i=0; i < v.size(); i++)
            {
                if (lineSec.equalsIgnoreCase(v.elementAt(i).toString()))
                {
                    discard = true;
                    diffLabel.setText("Duplicates = " +
Integer.toString(++countDups));
                }
            }
            if (!discard)
            {
                display.append(lineSec + "\n");
            }
            lineSec = inSecond.readLine();
            discard = false;
        }
        outDiff.write(display.getText());
        outDiff.close();

```

```
    }  
    catch(IOException ioe){display.setText(ioe.getMessage());}  
} // actionPerformed()
```

```
public static void main(String args[])  
{  
    ListDiff f = new ListDiff();  
    f.setSize(400, 300);  
    f.setVisible(true);  
    f.addWindowListener(new WindowAdapter()  
    { // Quit the application  
        public void windowClosing(WindowEvent e)  
        {  
            System.exit(0);  
        }  
    });  
} // main()  
} // end of class
```

bob  
sue  
chris  
ed  
alpha  
bianca  
rachel  
jeb  
yang  
ahmad  
alfred  
theo  
carol

debbie  
reggie  
jesse  
mildred  
paul  
jim  
mark  
maud  
raphael  
mikael  
julius  
martin  
winston  
dwight  
ted

bob  
sue  
john  
ed  
alpha  
bianca  
carlonda  
jeb  
yang  
miknon  
alfred  
theo  
hal  
debbie  
reggie  
jesse  
hazel  
paul  
jim  
mark  
simon  
raphael  
mikael  
nelson  
martin