Example GUI Questions

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Example Layout Question

Which GUI is generated by the code on the following page?

(The final may have one or more multiple-choice layout questions. They will typically have more than two answers and could be harder than this.)
JPanel p1 = new JPanel();
p1.setLayout(new FlowLayout());
p1.add(new JButton("A"));
p1.add(new JButton("B"));
p1.add(new JButton("C"));

JPanel p2 = new JPanel();
p2.setLayout(new GridLayout(2, 3));
p2.add(new JLabel("Java"));
p2.add(new JLabel("GUIs"));
p2.add(new JLabel("are"));
p2.add(new JLabel("fun!"));
p2.add(p1);

JFrame f = new JFrame("Hello");
f.setLayout(new BorderLayout());
f.add(p2, BorderLayout.NORTH);
f.add(new JLabel("Center!") , BorderLayout.CENTER);
f.add(new JLabel("South!") , BorderLayout.SOUTH);
f.add(new JLabel("Bottom!"), BorderLayout.SOUTH);

f.pack();
f.setVisible(true);
When the code on the next page is run, it creates a GUI with two buttons, labeled “Button 1” and “Button 2.” What is printed out when Button 1 is clicked, followed by Button 2, followed by clicking Button 1 again. Include the outputs from all three clicks. Use a slash (“/”) to separate multiple lines of output.

First click (Button 1): _______________________________
Second click (Button 2): _______________________________
Third click (Button 1): _______________________________

(This is my first attempt at creating a question like this. Similar questions may appear on the final, but may also be slightly different.)
public class ListenerDemo
{
    public static class Listener implements ActionListener {
        private String txt;
        public Listener(String txt) {
            this.txt = txt;
        }
        public void actionPerformed(ActionEvent e) {
            System.out.println(txt);
            txt = txt + txt;
        }
    }

    public static void main(String[] args) {
        Listener l1 = new Listener("A");
        Listener l2 = new Listener("B");
        JButton b1 = new JButton("Button 1");
        JButton b2 = new JButton("Button 2");
        b1.addActionListener(l1);
        b1.addActionListener(l2);
        b2.addActionListener(l2);
        JFrame f = new JFrame("Test");
        f.setLayout(new FlowLayout());
        f.add(b1);
        f.add(b2);
        f.setVisible(true);
    }
}