1. (2 pts) Suppose we have a JButton named button. Write one line of code which will reset the label of button to be the concatenation of the width of button, a space, a hyphen, another space, the height of button.

2. (2 pts) Suppose you have a JButton within an applet whose origin is the same as the origin of the applet. A devious instructor asks you to add an action listener to the button so that when the button is clicked its width and height will both double and the button will move so that its lower right corner is the same as the lower right corner of the applet. However, this instructor will only allow you to write two lines of code in your actionPerformed method. Which two lines of code would you write? Assume that the JButton is the only component in the applet that can cause an ActionEvent.

```java
public void actionPerformed(ActionEvent e) {
    // Your code here
}
```

3. (2 pts) The second method that is executed when an applet loads is ____________________, the first method executed is ____________________, the third method executed is ____________________, and all three of these methods are called by the applet’s ____________________.

4. (2 pts) Suppose you have a JButton named button. Is there a syntax error in the following code? Explain.

```java
button.setVisible(button.getText().compareTo(button.getActionCommand()) == 0);
```

5. (2 pts) How many times will the word Hello appear when the following applet is loaded? Explain.

```java
import java.awt.*;
import javax.swing.*;
public class Counter extends JApplet {
    private String message;
    public void start() {
        while (1 == 1) {
            message = “Hello Hello Hello Hello”;
            repaint();
        }
    }
    public void paint(Graphics g) {
        g.drawString(message, 50, 50);
    }
}
```