

## Class Display12

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```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
/**
 * Display12 isa JPanel with 25 buttons in an array
 *
 * @author      Nathan Chen
 * @version     3-7-19
 * @teacher     Coglianese
 * @period      2
 */
public class Display12 extends JPanel
{
    //Instance variables
    private JButton[] button;

    /**
     * Creates a new Display12 using a provided ActionListener
     *
     * @param      lis      ActionListener for the 25 buttons
     */
    public Display12(ActionListener lis)
    {
        setLayout(new GridLayout(5, 5, 5, 5));

        button = new JButton[25];
        for(int x = 0; x < 25; x++)
        {
            button[x] = new JButton("" + (x + 1));
            button[x].addActionListener(lis);
            button[x].setHorizontalAlignment(SwingConstants.CENTER);
            button[x].setFont(new Font("Serif", Font.BOLD, 20));
            button[x].setBackground(Color.yellow);
            add(button[x]);
        }
    }

    /**
     * Resets the buttons in the array
     */
    public void reset()
    {
        for(int x = 0; x < 25; x++)
        {
            button[x].setBackground(Color.yellow);
            button[x].setEnabled(true);
            button[x].setText(""+(x+1));
        }
    }
}
```

```
/*
 * Makes target button green and the rest gray and disables them
 *
 * @param      target      Int for button to be green
 */
public void displayWinner(int target)
{
    for(int x = 0; x < 25; x++)
    {
        button[x].setBackground(Color.gray);
        button[x].setEnabled(false);
        button[x].setText("");
    }
    button[target-1].setText(""+target);
    button[target-1].setBackground(Color.green);
}

/*
 * Makes all the buttons red and target black and disables them
 *
 * @param      target      Int for button that is black
 */
public void displayLoser(int target)
{
    for(int x = 0; x < 25; x++)
    {
        button[x].setBackground(Color.red);
        button[x].setEnabled(false);
        button[x].setText("");
    }
    button[target-1].setText(""+target);
    button[target-1].setBackground(Color.black);
}

/*
 * Disables the buttons from the last to the one guessed, makes them red
 *
 * @param      guess      Int for button guessed
 */
public void displayTooHigh(int guess)
{
    for(int x = button.length-1; x >= guess-1; x--) {
        button[x].setBackground(Color.red);
        button[x].setText("");
        button[x].setEnabled(false);
    }
}
```

**Class Display12 (continued)**

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```
/**  
 * Disables the buttons from the start to the one guessed, makes them re  
 d  
 *  
 * @param      guess      Int for button guessed  
 */  
public void displayTooLow(int guess)  
{  
    for(int x = 0; x < guess; x++) {  
        button[x].setBackground(Color.red);  
        button[x].setText("");  
        button[x].setEnabled(false);  
    }  
}
```