

Appendix

```

import java.io.*;
import java.awt.Graphics;
import java.awt.Color;
import java.awt.*;

/*
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author jh.youn
 */
public class TripletsPVP extends javax.swing.JFrame {
    private String[] args;

    /**
     * Creates new form Triplets
     */

    javax.swing.JButton[][] AllButtons = new javax.swing.JButton[6][6];

    public TripletsPVP() {
        initComponents();
        AllButtons[0][0] = jButton1;
        AllButtons[0][1] = jButton2;
        AllButtons[0][2] = jButton3;
        AllButtons[0][3] = jButton4;
        AllButtons[0][4] = jButton5;
        AllButtons[0][5] = jButton6;
        AllButtons[1][0] = jButton7;
        AllButtons[1][1] = jButton8;
        AllButtons[1][2] = jButton9;
        AllButtons[1][3] = jButton10;
        AllButtons[1][4] = jButton11;
        AllButtons[1][5] = jButton12;
        AllButtons[2][0] = jButton13;
        AllButtons[2][1] = jButton14;
        AllButtons[2][2] = jButton15;
        AllButtons[2][3] = jButton16;
        AllButtons[2][4] = jButton17;
        AllButtons[2][5] = jButton18;
        AllButtons[3][0] = jButton19;
        AllButtons[3][1] = jButton20;
        AllButtons[3][2] = jButton21;
        AllButtons[3][3] = jButton22;
    }

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        AllButtons[3][4] = jButton23;
        AllButtons[3][5] = jButton24;
        AllButtons[4][0] = jButton25;
        AllButtons[4][1] = jButton26;
        AllButtons[4][2] = jButton27;
        AllButtons[4][3] = jButton28;
        AllButtons[4][4] = jButton29;
        AllButtons[4][5] = jButton30;
        AllButtons[5][0] = jButton31;
        AllButtons[5][1] = jButton32;
        AllButtons[5][2] = jButton33;
        AllButtons[5][3] = jButton34;
        AllButtons[5][4] = jButton35;
        AllButtons[5][5] = jButton36;

    }

    public void Complete()
    {
        StartPlayer();
        WinPattern();
        StopGame();
    }

    public void StopGame()
    {
        if (WinPattern() == true)
        {
            textField2.setText("Gameover");
            output("Check Board!");
            for (int row=0; row<AllButtons[0].length; row=row+1)
                for (int col=0; col<AllButtons[0].length; col=col+1)
                {
                    AllButtons[col][row].setEnabled(false);
                }
        }
        else
        {
            textField2.setText("In Progress");
        }
    }

    public int CountButtonPerformed() // Start Player is 1.
    {
        int CBP = 0; // Count Button Performed
        for (int row=0; row<AllButtons[0].length; row=row+1)
            for (int col=0; col<AllButtons[0].length; col=col+1)

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        {
            if (AllButtons[col][row].getBackground() == Color.black)
            {
                CBP = CBP + 1;
            }
        }
    }
    return CBP;
}

public String Winner()
{
    int CBP = StartPlayer();
    String WinPly = null;
    if (CBP == 1)
    {
        WinPly = "Player 1";
    }
    else
    {
        WinPly = "Player 2";
    }
    return WinPly;
}

public int StartPlayer()
{
    int CBP = CountButtonPerformed();

    if ((CBP % 2) == 0)
    {
        CBP = 2;
        textField1.setText("Player 1's Turn");
    }
    else
    {
        CBP = 1;
        textField1.setText("Player 2's Turn");
    }

    return CBP;
}

public boolean WinPattern()
{ // need loop for buttons for ex. button[1][1] for convenience

    String WinPly = Winner();
    for (int row=0; row<AllButtons[0].length; row=row+1)
        for (int col=0; col<AllButtons[0].length; col=col+1)

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    {

        if (AllButtons[col][row].getBackground() == Color.black)
        {
            // Vertical
            if (row<AllButtons[0].length-2
                && AllButtons[col][row+1].getBackground() == Color.black
                && AllButtons[col][row+2].getBackground() == Color.black)
            {
                textField1.setText("Winner is " + WinPly + "!");
                return true;
            }

            // Horizontal
            if(col<AllButtons[0].length-2
                && AllButtons[col+1][row].getBackground() == Color.black
                && AllButtons[col+2][row].getBackground() == Color.black)
            {
                textField1.setText("Winner is " + WinPly + "!");
                return true;
            }

            //DiagonalToSouthEast
            if (col<AllButtons[0].length-2 && row<AllButtons[0].length-2
                && AllButtons[col+1][row+1].getBackground() == Color.black
                && AllButtons[col+2][row+2].getBackground() == Color.black)
            {
                textField1.setText("Winner is " + WinPly + "!");
                return true;
            }

            //DiagonalToSouthWest
            if (col<AllButtons[0].length-2 && row>1
                && AllButtons[col+1][row-1].getBackground() == Color.black
                && AllButtons[col+2][row-2].getBackground() == Color.black)
            {
                textField1.setText("Winner is " + WinPly + "!");
                return true;
            }
        }
        return false;
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        buttonGroup1 = new javax.swing.ButtonGroup();

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buttonGroup2 = new javax.swing.ButtonGroup();
buttonGroup3 = new javax.swing.ButtonGroup();
jDialog1 = new javax.swing.JDialog();
jDialog2 = new javax.swing.JDialog();
jDialog3 = new javax.swing.JDialog();
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();
jButton3 = new javax.swing.JButton();
jButton4 = new javax.swing.JButton();
jButton5 = new javax.swing.JButton();
jButton6 = new javax.swing.JButton();
jButton7 = new javax.swing.JButton();
jButton8 = new javax.swing.JButton();
jButton9 = new javax.swing.JButton();
jButton10 = new javax.swing.JButton();
jButton11 = new javax.swing.JButton();
jButton12 = new javax.swing.JButton();
jButton13 = new javax.swing.JButton();
jButton14 = new javax.swing.JButton();
jButton15 = new javax.swing.JButton();
jButton16 = new javax.swing.JButton();
jButton17 = new javax.swing.JButton();
jButton18 = new javax.swing.JButton();
jButton19 = new javax.swing.JButton();
jButton20 = new javax.swing.JButton();
jButton21 = new javax.swing.JButton();
jButton22 = new javax.swing.JButton();
jButton23 = new javax.swing.JButton();
jButton24 = new javax.swing.JButton();
jButton25 = new javax.swing.JButton();
jButton26 = new javax.swing.JButton();
jButton27 = new javax.swing.JButton();
jButton28 = new javax.swing.JButton();
jButton29 = new javax.swing.JButton();
jButton30 = new javax.swing.JButton();
jButton31 = new javax.swing.JButton();
jButton32 = new javax.swing.JButton();
jButton33 = new javax.swing.JButton();
jButton34 = new javax.swing.JButton();
jButton35 = new javax.swing.JButton();
jButton36 = new javax.swing.JButton();
textField1 = new java.awt.TextField();
textField2 = new java.awt.TextField();
jButton37 = new javax.swing.JButton();
jButton38 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

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        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        jButton1.addInputMethodListener(new java.awt.event.InputMethodListener() {
            public void caretPositionChanged(java.awt.event.InputMethodEvent evt) {
                jButton1CaretPositionChanged(evt);
            }
            public void inputMethodTextChanged(java.awt.event.InputMethodEvent evt)
        {
            }
        });
        getContentPane().add(jButton1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 50, 60, 60));

        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(60, 50, 60, 60));

        jButton3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(120, 50, 60, 60));

        jButton4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton4ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(180, 50, 60, 60));

        jButton5.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton5ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton5, new
org.netbeans.lib.awtextra.AbsoluteConstraints(240, 50, 60, 60));

        jButton6.addActionListener(new java.awt.event.ActionListener() {

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        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton6ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton6, new
org.netbeans.lib.awtextra.AbsoluteConstraints(300, 50, 60, 60));

    jButton7.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton7ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton7, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 110, 60, 60));

    jButton8.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton8ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton8, new
org.netbeans.lib.awtextra.AbsoluteConstraints(60, 110, 60, 60));

    jButton9.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton9ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton9, new
org.netbeans.lib.awtextra.AbsoluteConstraints(120, 110, 60, 60));

    jButton10.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton10ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton10, new
org.netbeans.lib.awtextra.AbsoluteConstraints(180, 110, 60, 60));

    jButton11.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton11ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton11, new
org.netbeans.lib.awtextra.AbsoluteConstraints(240, 110, 60, 60));

    jButton12.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {

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        jButton12ActionPerformed(evt);
    }
});
getContentPane().add(jButton12, new
org.netbeans.lib.awtextra.AbsoluteConstraints(300, 110, 60, 60));

jButton13.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton13ActionPerformed(evt);
    }
});
getContentPane().add(jButton13, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 170, 60, 60));

jButton14.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton14ActionPerformed(evt);
    }
});
getContentPane().add(jButton14, new
org.netbeans.lib.awtextra.AbsoluteConstraints(60, 170, 60, 60));

jButton15.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton15ActionPerformed(evt);
    }
});
getContentPane().add(jButton15, new
org.netbeans.lib.awtextra.AbsoluteConstraints(120, 170, 60, 60));

jButton16.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton16ActionPerformed(evt);
    }
});
getContentPane().add(jButton16, new
org.netbeans.lib.awtextra.AbsoluteConstraints(180, 170, 60, 60));

jButton17.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton17ActionPerformed(evt);
    }
});
getContentPane().add(jButton17, new
org.netbeans.lib.awtextra.AbsoluteConstraints(240, 170, 60, 60));

jButton18.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton18ActionPerformed(evt);
    }
});

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        }
    });
    getContentPane().add(jButton18, new
org.netbeans.lib.awtextra.AbsoluteConstraints(300, 170, 60, 60));

    jButton19.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton19ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton19, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 230, 60, 60));

    jButton20.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton20ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton20, new
org.netbeans.lib.awtextra.AbsoluteConstraints(60, 230, 60, 60));

    jButton21.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton21ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton21, new
org.netbeans.lib.awtextra.AbsoluteConstraints(120, 230, 60, 60));

    jButton22.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton22ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton22, new
org.netbeans.lib.awtextra.AbsoluteConstraints(180, 230, 60, 60));

    jButton23.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton23ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton23, new
org.netbeans.lib.awtextra.AbsoluteConstraints(240, 230, 60, 60));

    jButton24.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton24ActionPerformed(evt);
        }
    });

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    });
    getContentPane().add(jButton24, new
org.netbeans.lib.awtextra.AbsoluteConstraints(300, 230, 60, 60));

    jButton25.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton25ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton25, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 290, 60, 60));

    jButton26.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton26ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton26, new
org.netbeans.lib.awtextra.AbsoluteConstraints(60, 290, 60, 60));

    jButton27.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton27ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton27, new
org.netbeans.lib.awtextra.AbsoluteConstraints(120, 290, 60, 60));

    jButton28.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton28ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton28, new
org.netbeans.lib.awtextra.AbsoluteConstraints(180, 290, 60, 60));

    jButton29.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton29ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton29, new
org.netbeans.lib.awtextra.AbsoluteConstraints(240, 290, 60, 60));

    jButton30.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton30ActionPerformed(evt);
        }
    });

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        getContentPane().add(jButton30, new
org.netbeans.lib.awtextra.AbsoluteConstraints(300, 290, 60, 60));

        jButton31.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton31ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton31, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 350, 60, 60));

        jButton32.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton32ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton32, new
org.netbeans.lib.awtextra.AbsoluteConstraints(60, 350, 60, 60));

        jButton33.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton33ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton33, new
org.netbeans.lib.awtextra.AbsoluteConstraints(120, 350, 60, 60));

        jButton34.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton34ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton34, new
org.netbeans.lib.awtextra.AbsoluteConstraints(180, 350, 60, 60));

        jButton35.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton35ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton35, new
org.netbeans.lib.awtextra.AbsoluteConstraints(240, 350, 60, 60));

        jButton36.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton36ActionPerformed(evt);
            }
        });

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```

        getContentPane().add(jButton36, new
org.netbeans.lib.awtextra.AbsoluteConstraints(300, 350, 60, 60));

        textField1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                textField1ActionPerformed(evt);
            }
        });
        getContentPane().add(textField1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 10, 130, 30));
        getContentPane().add(textField2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(150, 10, 100, 30));

        jButton37.setText("Restart");
        jButton37.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton37ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton37, new
org.netbeans.lib.awtextra.AbsoluteConstraints(270, 10, 90, 30));

        jButton38.setText("Back to Menu");
        jButton38.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton38ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton38, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 420, 360, 40));

        pack();
    } // </editor-fold>

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton2.setBackground(Color.black);
        Complete();
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton3.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton4.setBackground(Color.black);
        Complete();
    }

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private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    jButton5.setBackground(Color.black);
    Complete();
}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
    jButton6.setBackground(Color.black);
    Complete();
    // TODO add your handling code here:
}

private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {
    jButton7.setBackground(Color.black);
    Complete();
    // TODO add your handling code here:
}

private void jButton8ActionPerformed(java.awt.event.ActionEvent evt) {
    jButton8.setBackground(Color.black);
    Complete();
    // TODO add your handling code here:
}

private void jButton9ActionPerformed(java.awt.event.ActionEvent evt) {
    jButton9.setBackground(Color.black);
    Complete();
    // TODO add your handling code here:
}

private void jButton10ActionPerformed(java.awt.event.ActionEvent evt) {
    jButton10.setBackground(Color.black);
    Complete();
    // TODO add your handling code here:
}

private void jButton11ActionPerformed(java.awt.event.ActionEvent evt) {
    jButton11.setBackground(Color.black);
    Complete();
    // TODO add your handling code here:
}

private void jButton12ActionPerformed(java.awt.event.ActionEvent evt) {
    jButton12.setBackground(Color.black);
    Complete();
    // TODO add your handling code here:
}

private void jButton13ActionPerformed(java.awt.event.ActionEvent evt) {

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        jButton13.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton14ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton14.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton15ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton15.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton16ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton16.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton17ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton17.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton18ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton18.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton19ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton19.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton20ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton20.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton21ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton21.setBackground(Color.black);

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        Complete();
        // TODO add your handling code here:
    }

    private void jButton22ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton22.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton23ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton23.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton24ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton24.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton25ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton25.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton26ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton26.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton27ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton27.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton28ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton28.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton29ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton29.setBackground(Color.black);
        Complete();
    }

```

```

        // TODO add your handling code here:
    }

    private void jButton30ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton30.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton31ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton31.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton32ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton32.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton33ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton33.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton34ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton34.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton35ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton35.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton36ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton36.setBackground(Color.black);
        Complete();
        // TODO add your handling code here:
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        jButton1.setBackground(Color.black);
        Complete();
    }

```



```

// TODO add your handling code here:
}

private void jButton1CaretPositionChanged(java.awt.event.InputMethodEvent evt) {
    // TODO add your handling code here:
}

private void textField1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jButton37ActionPerformed(java.awt.event.ActionEvent evt) {

    int CBP = CountButtonPerformed();
    String WinPly = Winner();
    for (int row=0; row<AllButtons[0].length; row=row+1)
        for (int col=0; col<AllButtons[0].length; col=col+1)
            {
                AllButtons[col][row].setEnabled(true);
                AllButtons[col][row].setBackground(Color.LIGHT_GRAY);
                CBP = 1;
                WinPly = "Player 1";
                textField2.setText("New Game");
            }
    // TODO add your handling code here:
}

private void jButton38ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    Main.main(args);    // TODO add your handling code here:
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look
and feel.
    * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());

```

```

        break;
    }
}
} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(TripletsPVP.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(TripletsPVP.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(TripletsPVP.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(TripletsPVP.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    }
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new TripletsPVP().setVisible(true);
    }
});
}
// Variables declaration - do not modify
private javax.swing.ButtonGroup buttonGroup1;
private javax.swing.ButtonGroup buttonGroup2;
private javax.swing.ButtonGroup buttonGroup3;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton10;
private javax.swing.JButton jButton11;
private javax.swing.JButton jButton12;
private javax.swing.JButton jButton13;
private javax.swing.JButton jButton14;
private javax.swing.JButton jButton15;
private javax.swing.JButton jButton16;
private javax.swing.JButton jButton17;
private javax.swing.JButton jButton18;
private javax.swing.JButton jButton19;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton20;
private javax.swing.JButton jButton21;
private javax.swing.JButton jButton22;
private javax.swing.JButton jButton23;

```

```

private javax.swing.JButton jButton24;
private javax.swing.JButton jButton25;
private javax.swing.JButton jButton26;
private javax.swing.JButton jButton27;
private javax.swing.JButton jButton28;
private javax.swing.JButton jButton29;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton30;
private javax.swing.JButton jButton31;
private javax.swing.JButton jButton32;
private javax.swing.JButton jButton33;
private javax.swing.JButton jButton34;
private javax.swing.JButton jButton35;
private javax.swing.JButton jButton36;
private javax.swing.JButton jButton37;
private javax.swing.JButton jButton38;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private javax.swing.JButton jButton6;
private javax.swing.JButton jButton7;
private javax.swing.JButton jButton8;
private javax.swing.JButton jButton9;
private javax.swing.JDialog jDialog1;
private javax.swing.JDialog jDialog2;
private javax.swing.JDialog jDialog3;
private java.awt.TextField textField1;
private java.awt.TextField textField2;
// End of variables declaration

//=====
//=== IBIO simplified input/output commands - GUI version ===
//=====

public static void output(String message)
{   javax.swing.JOptionPane.showMessageDialog(null,message);   }

public static void outputString(String message)
{   output(message);   }

public static void output(char info)
{   output(info + "");   }

public static void output(byte info)
{   output(info + "");   }

public static void output(int info)
{   output(info + "");   }

public static void output(long info)
{   output(info + "");   }

```

```

public static void output(double info)
{   output(info + ""); }

public static void output(boolean info)
{   output(info + ""); }

//----- Numerical input methods return 0 on error -----
public static String input(String prompt)
{   return javax.swing.JOptionPane.showInputDialog(null,prompt);   }

public static String inputString(String prompt)
{ return input(prompt);   }

public static String input()
{ return input("");   }

public static char inputChar(String prompt)
{ char result=(char)0;
  try{result=input(prompt).charAt(0);}
  catch (Exception e){result = (char)0;}
  return result;
}

public static byte inputByte(String prompt)
{ byte result=0;
  try{result=Byte.valueOf(input(prompt).trim()).byteValue();}
  catch (Exception e){result = 0;}
  return result;
}

public static int inputInt(String prompt)
{   int result=0;
    try{result=Integer.valueOf(
                                input(prompt).trim()).intValue();}
    catch (Exception e){result = 0;}
    return result;
}

public static long inputLong(String prompt)
{   long result=0;
    try{result=Long.valueOf(input(prompt).trim()).longValue();}
    catch (Exception e){result = 0;}
    return result;
}

public static double inputDouble(String prompt)
{   double result=0;
    try{result=Double.valueOf(

```

```

        input(prompt).trim()).doubleValue();}
    catch (Exception e){result = 0;}
    return result;
}

public static boolean inputBoolean(String prompt)
{
    boolean result=false;
    try{result=Boolean.valueOf(
        input(prompt).trim()).booleanValue();}
    catch (Exception e){result = false;}
    return result;
}
//=====
//===== end IBIO =====
//=====
}

```

PROGRAM SAMPLE:

