GUI (1A)

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This document was produced by using OpenOffice.

Skeleton

```java
class MyFrame extends JFrame {
    MyFrame () {
        setSize(500, 300);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setTitle("111 222 333");

        setLayout(new BorderLayout());



        this.add p_north,  BorderLayout.NORTH);
        this.add p_west,   BorderLayout.WEST);
        this.add p_east,   BorderLayout.EAST);
        this.add p_south,  BorderLayout.SOUTH);
        this.add p_center, BorderLayout.CENTER);



        setVisible(true);
    }
}


public class TestFrame2 {

    public static void main(String[] args) {
        new MyFrame();

    }

}
```
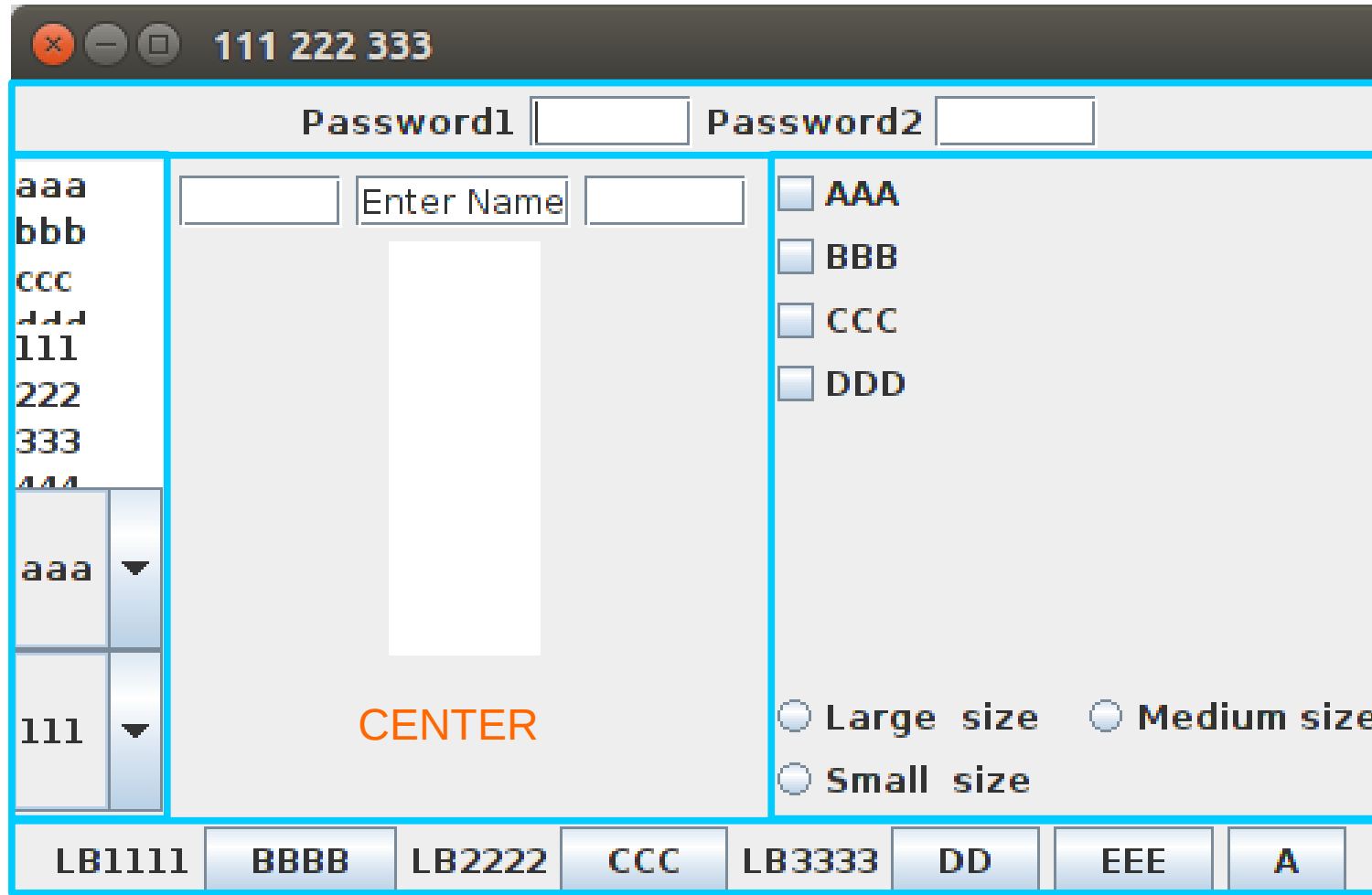
Result

```
// NORTH ------------------------------------------------
JLabel pf1lb = new JLabel("Password1");
JLabel pf2lb = new JLabel("Password2");

JPasswordField pf1 = new JPasswordField(5);
JPasswordField pf2 = new JPasswordField(5);

JPanel p_north = new JPanel();

p_north.setLayout(new FlowLayout());
p_north.add(pf1lb);
p_north.add(pf1);
p_north.add(pf2lb);
p_north.add(pf2);
```

```
// WEST -------------------------------------------------
String [] names = new String[5];
names[0] = "aaa";
names[1] = "bbb";
names[2] = "ccc";
names[3] = "ddd";
names[4] = "eee";

String [] numbers = {"111", "222", "333", "444", "555"};

JList ls1 = new JList(names);
JList ls2 = new JList(numbers);

JComboBox cbx1 = new JComboBox(names);
JComboBox cbx2 = new JComboBox(numbers);

JPanel p_west = new JPanel();

p_west.setLayout(new GridLayout(0, 1));
p_west.add(ls1);
p_west.add(ls2);
p_west.add(cbx1);
p_west.add(cbx2);
```

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```java
// EAST ------------------------------------------------------
JCheckBox cb1 = new JCheckBox("AAA");
JCheckBox cb2 = new JCheckBox("BBB");
JCheckBox cb3 = new JCheckBox("CCC");
JCheckBox cb4 = new JCheckBox("DDD");

JRadioButton rb1 = new JRadioButton("Large  size");
JRadioButton rb2 = new JRadioButton("Medium size");
JRadioButton rb3 = new JRadioButton("Small  size");


ButtonGroup bg = new ButtonGroup();
bg.add(rb1); bg.add(rb2); bg.add(rb3);

// pn1 : checkbox 1, 2, 3, 4 in GridLayout
// pn2 : radiobutton 1, 2, 3 in BoxLayout
JPanel pn1 = new JPanel();
JPanel pn2 = new JPanel();

pn2.setLayout(new GridLayout(2,2));
pn1.setLayout(new BoxLayout(pn1, BoxLayout.Y_AXIS));

pn1.add(cb1); pn1.add(cb2); pn1.add(cb3); pn1.add(cb4);
pn2.add(rb1); pn2.add(rb2); pn2.add(rb3);


JPanel p_east = new JPanel();

p_east.setLayout(new BorderLayout());
p_east.add(pn1, BorderLayout.NORTH);
p_east.add(pn2, BorderLayout.SOUTH);
```

```
// SOUTH ---------------------------------------------------
JButton b1 = new JButton("BBBB");
JButton b2 = new JButton("CCC");
JButton b3 = new JButton("DD");
JButton b4 = new JButton("EEE");
JButton b5 = new JButton("A");

JLabel lb1 = new JLabel("LB1111");
JLabel lb2 = new JLabel("LB2222");
JLabel lb3 = new JLabel("LB3333");

JPanel p_south = new JPanel();

p_south.add(lb1);
p_south.add(b1);
p_south.add(lb2);
p_south.add(b2);
p_south.add(lb3);
p_south.add(b3);
p_south.add(b4);
p_south.add(b5);
```

```
// CENTER ---------------------------------------------
JTextField tf1 = new JTextField(5);
JTextField tf2 = new JTextField("Enter Name");
JTextField tf3 = new JTextField(5);

JTextArea ta1 = new JTextArea(10, 5);

JPanel p_center = new JPanel();

p_center.add(tf1);
p_center.add(tf2);
p_center.add(tf3);
p_center.add(ta1);
```

References

[1]   Java in a nutshell, 4th ed, David Flanagan
[2]   An Introduction to Object-Oriented Programming with Java, C. Thomas, Wu
[3]   Power Java, I. K. Chun (in Korean)