温州大学计算机与人工智能学院

<u>Java程序设计(17网工) 实验报告</u>

实验名称	控制显示的字符				
班 级	18电科2	姓 名	方涛涛	学 号	18211110208
实验地点		实验时间	2020-12-27,15:02:35	指导老师	

一、问题编号:

2122

地址: http://10.132.254.54/problem/2122/

二、问题描述:

显示用户输入的字符。用户可以使用上、下、左、右箭头按键来将字符做相应移动。

三、输入说明:

四、输出说明:

五、输入样列:

六、输出样列:

七、解答内容:

所用语言:

源代码:

```
import java.awt.Font;
import java.awt.Graphics;
01.
02.
      import java.awt.event.KeyEvent;
import java.awt.event.KeyListener;
03.
06.
      import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JPanel;
07.
08.
09.
10.
      public class Main extends JFrame {
            public Main() {
    MyPanel myPanel = new MyPanel();
11.
12.
13.
                  this.add(myPanel);
                  this.addKeyListener((KeyListener) myPanel);
14.
                  this.setSize(400, 300);
this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
15.
16.
17.
                  this.setVisible(true);
18.
19.
20.
            public static void main(String[] args) {
                 Main window = new Main();
window.setTitle("KeyEvent Test");
21.
23.
24.
25.
      }
26.
27.
      class MyPanel extends JPanel implements KeyListener {
28.
            int x = 10;
29.
            int y = 10;
30.
            JLabél labél = null;
```

```
31.
          public MyPanel() {
   label = new JLabel();
32.
33.
34.
               label.setText("J");
label.setFont(new Font("", Font.PLAIN, 16));
35.
36.
               add(label);
37.
38.
39.
          @Override
          public void paint(Graphics g) {
40.
41.
               super.paint(g)
               label.setLocation(x, y);
42.
43.
          }
44.
45.
          @Override
          public void keyPressed(KeyEvent arg0) {
46.
47.
48.
               if (arg0.getKeyCode() == KeyEvent.VK_UP) {
49.
50.
                    y = 10;
51.
52.
53.
               if (arg0.getKeyCode() == KeyEvent.VK_DOWN) {
54.
                    y += 10;
55.
56.
57.
               if (arg0.getKeyCode() == KeyEvent.VK_LEFT) {
58.
59.
               if (arg0.getKeyCode() == KeyEvent.VK_RIGHT) {
60.
61.
62.
                    x += 10;
63.
               this.repaint();
64.
65.
          }
66.
67.
          @Override
          public void keyTyped(KeyEvent keyEvent) {
68.
69.
70.
71.
          @Override
73.
74.
          public void keyReleased(KeyEvent keyEvent) {
75.
76.
77.
78. }
```

八、判题结果

RE - 运行错误

判题结果补充说明:

test id:4080,result:RE, usedtime:148MS, usedmem:3368KB,score:50 Exception in thread "main" java.awt.HeadlessException: No X11 DISPLAY variable was set, but this program performed an operation which requires it. at

java.awt.GraphicsEnvironment.checkHeadless(GraphicsEnvironment.java:173) at java.awt.Window.<init>(Window.java:547) at java.awt.Frame.<init>(Frame.java:419) at java.awt.Frame.<init>(Frame.java:384) at javax.swing.JFrame.<init>(JFrame.java:174) at Main. <init>(Main.java:11) at Main.main(Main.java:21) test id:4081,result:RE, usedtime:148MS, usedmem:3356KB,score:50 Exception in thread "main" java.awt.HeadlessException: No X11 DISPLAY variable was set, but this program performed an operation which requires it. at java.awt.GraphicsEnvironment.checkHeadless(GraphicsEnvironment.java:173) at java.awt.Window.<init>(Window.java:547) at java.awt.Frame.<init>(Frame.java:419) at java.awt.Frame.<init>(Frame.java:384) at javax.swing.JFrame.<init>(JFrame.java:174) at Main. <init>(Main.java:11) at Main.main(Main.java:21)