```
1 /*----\
  2 | Nick Rebhun
  3
       |Project 06
       |Computer Science 182
  5
       05/31/2011
  6
  7
  8
  9 package project6;
10
11 /********************************
12
13 Project Number 6 - Comp Sci 182 - Data Structures
14 Start Code - Build your program starting with this code
16 Copyright 2005 Christopher C. Ferguson
17 This code may only be used with the permission of Christopher C. Ferguson
18
20
21 import javax.swing.*;
22 import java.awt.*;
23 import java.awt.event.*;
24
25 public class PrimeHash extends JFrame implements ActionListener {
26
27 private static int win_xpos=0,win_ypos=0;// place window here
28 private static int win xsize=1000, win ysize=700;// window size
29
30 // Private state variables.
31
32 private Font boldfont = new Font ("TimesRoman", Font.BOLD, 18);
33 private Font plainfont = new Font ("TimesRoman", Font.PLAIN, 12);
35 private JButton hashbutton, findbutton, insbutton, delbutton, exitbutton;
36 private JPanel northPanel;
37 private MyJPanel centerPanel;
38 private JTextField hashsizefield;
39
40 private HashTable potato;
41
42 private String thetext = "101";
43 private String[] names = { "fred" , "barney", "tom", "jerry", "larry", "moe", "curly", 44 "betty" , "wilma", "bart", "homer", "marge", "maggie", "lisa", 45 "pebbles" , "bambam", "smithers", "burns", "milhouse", "george", "astro",
46 "dino" , "mickey", "minnie", "pluto", "goofy", "donald", "huey",
The state of the s
51 "peggy" , "spot", "pongo", "perdy", "buzz", "potatohead", "woody",
52 "chuckie", "tommy", "phil", "lil", "angelica", "dill", "spike",
53 "pepe" , "speedy", "yosemite", "sam", "tweety", "sylvester", "granny",
54 "spiderman", "batman", "superman", "supergirl", "robin", "jimmy", "olsen", 55 "thing", "flash", "silversurfer", "xmen", "pokemon", "joker", "wonderwoman"
56 };
57
58
60
61 public static void main(String[] args){
62
                      PrimeHash tpo = new PrimeHash();
63
                       tpo.addWindowListener(new WindowAdapter() { // this exits the program when X box
64
```

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```
clicked
               public void windowClosing(WindowEvent e) {
65
66
                   System.exit(0);
67
68
           });
69 }
70
72
73 public PrimeHash () {
74
75
          northPanel = new JPanel();
76
77
78
          northPanel.add(new Label("Enter a hashtable size: "));
79
          hashsizefield = new JTextField(thetext,20);
          northPanel.add(hashsizefield);
80
81
          hashbutton = new JButton("CreateHash");
                                                     // create hash table button
82
83
          northPanel.add(hashbutton);
84
          hashbutton.addActionListener(this);
85
          ///*
86
87
88
          findbutton = new JButton("Find");
                                                       // create find button
89
          northPanel.add(findbutton);
90
          findbutton.addActionListener(this);
91
92
          insbutton = new JButton("Insert");
                                                       // create insert button
93
          northPanel.add(insbutton);
94
          insbutton.addActionListener(this);
95
96
          delbutton = new JButton("Delete");
                                                       // create delete button
97
          northPanel.add(delbutton);
98
          delbutton.addActionListener(this);
99
100
           //*/
101
102
          exitbutton = new JButton("Exit");
                                                       // create exit button
103
          northPanel.add(exitbutton);
104
          exitbutton.addActionListener(this);
105
106
          getContentPane().add("North", northPanel);
107
108
          centerPanel = new MyJPanel();
109
          getContentPane().add("Center",centerPanel);
110
111
          // need more init stuff? try here.
          setSize(win xsize,win ysize);
112
113
          setLocation(win_xpos,win_ypos);
114
          setVisible(true);
115 }
116
118
119    public void actionPerformed(ActionEvent e) {
120
            if (e.getSource()==exitbutton) {
121
                  dispose(); System.exit(0);
122
            }
123
124
            if (e.getSource()==hashbutton) {
125
                int size = Integer.parseInt(thetext);
126
                potato = new HashTable (size);
127
```

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/Users/NRFACTOR/NetBeansProjects/Project6/src/project6/PrimeHash.java

```
128
                repaint();
129
            }
130
131
            if (e.getSource()==findbutton) {
132
                potato.find(thetext);
133
134
            if (e.getSource()==insbutton) {
135
136
                potato.insert(null);
137
            }
138
139
            if (e.getSource()==delbutton) {
140
                potato.insert(null);
141
142
            }
143
144
            if (e.getSource()==findbutton) {
145
146
            }
147
148
149 } // end actionPerformed
150
151 class MyJPanel extends JPanel {
152
153
    PAINT
                           154
     public void paintComponent (Graphics g) {
155
156
            g.setFont(plainfont);
            g.drawString("Hash Crash: " + "Should be at: " + "Found at: ", 20,30);
157
158
159
160 } // End Of MyJPanel
161
162 } // End Of PrimeHash
```

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