## Project3.java

```
1 import java.util.*;
 3
 4 / * *
 5 * The driver program for project3.
 6
     This driver reads in a file and hashes them into a table.
 7
 8 *
     @author Jack Zhan
 9 * @version 2016-05-03
10 */
11
12
13 public class Project3 {
15
           //Storage for the items
           public static List<String> Items = new ArrayList<String>();
16
17
           private static String lcstring;
18
19
            * Main entry point for the application.
20
21
22
           public static void main (String args[]) {
23
24
               Project3
                                           = new Project3();
                                  р
25
               LCS
                                  lcs
                                           = new LCS();
26
               String
                                  fileName = "input.txt";
27
28
               System.out.println("Entered main() method.");
29
               p.readInputFile(fileName);
30
               for (String key1 : Items)
31
32
                   for (String key2 : Items)
33
34
                       if (\text{key1} == \text{key2})
35
36
37
                       else
38
39
                            System.out.println("LCS of " + key1 + " and " + key2 + " is:");
                            lcstring = lcs.calLCS2(key1, key2);
40
41
                           System.out.println(lcstring);
42
43
                   }
44
               }
45
               return;
46
           }
47
48
49
               Opens, reads, and closes the file containing items.
50
51
52
      private void readInputFile(String fileName) {
53
54
55
           String line = null;
56
57
           System.out.println("Entered readInputFile() method.");
58
59
           try {
               // FileReader reads text files in the default encoding.
60
```

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```
61
               FileReader fileReader = new FileReader(fileName);
62
63
               // Always wrap FileReader in BufferedReader.
               BufferedReader bufferedReader = new BufferedReader(fileReader);
64
65
66
               while((line = bufferedReader.readLine()) != null) {
67
                   //Resets everything when there is a blank line and
                   //adds the data to array lists
68
69
                   if(line.isEmpty() )
70
71
72
                   else
73
74
                       //Getting order and setting up the matrixes to be
75
                       //added into the array list
76
                       Items.add(line);
77
78
79
               }
80
               // Always close files.
81
              bufferedReader.close();
82
83
          catch(FileNotFoundException ex) {
84
               System.out.println(
85
                   "Unable to open file '" +
                   fileName + "'");
86
87
88
          catch(IOException ex) {
89
               System.out.println(
                   "Error reading file '"
90
91
                   + fileName + "'");
92
           }
93
          return;
94
      }
95
96 }
97
```