```
1 /*
       Question 5
 2
 3
       Creator: Wahid Bawa
 4
       Purpose: To create a method for removing duplicates to implement within a linked list class
 5 */
6 public class LList {
       private LNode head, tail;
7
8
9
       public LList() {
10
           head = null;
11
           tail = null;
12
13
14
       public void add(int val) {
15
           LNode tmp = new LNode(val, tail, null);
           if (tail != null) {
16
17
               tail.setNext(tmp);
18
19
           if (head == null) {
20
               head = tmp;
21
22
           tail = tmp;
23
       }
24
25
       public String toString() { // displays the parts of the linked list
26
           String ans = "";
27
           LNode tmp = head;
28
           while (tmp != null) {
               ans += tmp.getVal() + (tmp.getNext() == null ? "" : "-");
29
30
               tmp = tmp.getNext();
31
32
           return ans;
33
       }
34
35
       public void delete(LNode node) {
36
           if (node == head) {
37
               head = node.getNext();
38
           if (node == tail) {
39
               tail = node.getPrev();
40
41
           if (node.getNext() != null) {
42
43
               node.getNext().setPrev(node.getPrev());
44
           if (node.getPrev() != null) {
45
46
               node.getPrev().setNext(node.getNext());
47
       }
48
49
50
       public boolean contains(int val) { // this checks if a value is present in the list, returns true or false
           boolean found = false;
51
           LNode tmp = head;
52
           while (tmp != null) {
53
54
               if (tmp.getVal() == val) {
55
                   found = true;
                   break;
56
57
58
               tmp = tmp.getNext();
59
60
           return found;
61
       }
62
       public void removeDuplicates() {
63
           LNode tmp = head;
64
65
           LList singles = new LList(); // creating a linkedlist of unique values in the original list
66
           while (tmp != null) {
67
               if (singles.contains(tmp.getVal())) { // If the value is not unique, delete it
                   delete(tmp);
68
```