```
1 /*
       Question 6
 2
 3
       Creator: Wahid Bawa
 4
       Purpose: To add a reverse method which would reverse the contents of a linked list
 5 */
 6 public class LList {
       private LNode head, tail;
 8
 9
       public LList() {
           head = null;
tail = null;
10
11
12
13
       public void add(int val) {
14
            LNode tmp = new LNode(val, tail, null);
if (tail != null) {
15
16
17
                tail.setNext(tmp);
18
           if (head == null) {
   head = tmp;
19
20
21
22
            tail = tmp;
23
       }
24
       public String toString() { // displays the parts of the linked list
25
26
            String ans = ""
27
            LNode tmp = head;
28
            while (tmp != null) {
29
                ans += tmp.getVal() + (tmp.getNext() == null ? "" : "-");
                tmp = tmp.getNext();
30
31
32
            return ans;
       }
33
34
       public void reverse() { // reverses the order of the nodes
35
           LNode tmp, nextTmp;
tmp = head;
36
37
            while (tmp != null) {
38
                nextImp = tmp.getNext(); // this is the temp variable for the next node, this is for keeping track of this node after we lose it
39
40
                tmp.setNext(tmp.getPrev());
41
                tmp.setPrev(nextTmp);
                tmp = tmp.getPrev();
42
43
44
            // switch head and tail
45
           tmp = head;
head = tail;
46
47
48
            tail = tmp;
49
50 }
```