

```
1 //TJ Liggett
2 //Homework 1
3 //2_14_2019
4 //ReverseUsingLinkedList.java
5
6 /*
7     Class ReverseUsingLinkedList takes user input list of integers and reverses it
8     using a LinkedList
9 */
10
11
12 import java.util.LinkedList;
13 import java.util.ListIterator;
14 import java.util.Scanner;
15
16 public class ReverseUsingLinkedList
17 {
18     //Input: a sequence of integers and -1 to end
19     //Output: the user input sequence in reverse
20     public static void main(String[] args)
21     {
22         Scanner input = new Scanner(System.in);
23         LinkedList<Integer> list = new LinkedList<Integer>();
24         System.out.print("Enter a sequence of integers, -1 to end: ");
25         while(true)
26         {
27             int i = input.nextInt();
28             if(i == -1) break;
29             else list.add(i);
30         }
31         System.out.print("list in reverse: ");
32         ListIterator<Integer> iter = list.listIterator(list.size());
33         while(iter.hasPrevious()) System.out.print(iter.previous() + " ");
34         input.close();
35     }
36 }
```

```
1 //TJ Liggett
2 //Homework 1
3 //2_14_2019
4 //ReverseUsingStack.java
5
6 /*
7     Class ReverseUsingStack takes user input list of integers and reverses it
8     using a Stack
9 */
10
11
12 import java.util.Stack;
13 import java.util.Scanner;
14
15 class ReverseUsingStack
16 {
17     //Input: a sequence of integers and -1 to end
18     //Output: the user input sequence in reverse
19     public static void main(String[] args)
20     {
21         Scanner input = new Scanner(System.in);
22         Stack<Integer> stack = new Stack<Integer>();
23         System.out.print("Enter a sequence of integers, -1 to end: ");
24         while(true)
25         {
26             int i = input.nextInt();
27             if(i == -1) break;
28             else stack.push(i);
29         }
30         System.out.print("list in reverse: ");
31         while(stack.size() > 0) System.out.print(stack.pop() + " ");
32         input.close();
33     }
34 }
```