

LLStack.java

```
1 /*
2  * Written by JJ Shepherd
3  */
4 public class LLStack<T> implements StackI<T> {
5     private class ListNode
6     {
7         T data;
8         ListNode link;
9         public ListNode(T aData, ListNode aLink)
10        {
11            data = aData;
12            link = aLink;
13        }
14    }
15    private ListNode head;
16    public LLStack()
17    {
18        head = null;
19    }
20    public void push(T aData)
21    {
22        ListNode newNode = new ListNode(aData,head);
23        head = newNode;
24    }
25    public T pop()
26    {
27        if(head == null)
28            return null;
29        T ret = head.data;
30        head = head.link;
31        return ret;
32    }
33    public T peek()
34    {
35        if(head == null)
36            return null;
37        return head.data;
38    }
39    public void print()
40    {
41        for(ListNode temp = head; temp != null; temp = temp.link)
42            System.out.println(temp.data);
43    }
44 }
45
```