

```

1 /*
2  * Written by JJ Shepherd
3  */
4 public class GenLL <T>
5 {
6     private class ListNode
7     {
8         T data;
9         ListNode link;
10        public ListNode(T aData, ListNode aLink)
11        {
12            data = aData;
13            link = aLink;
14        }
15    }
16    private ListNode head;
17    private ListNode current;
18    private ListNode previous;
19    public GenLL()
20    {
21        head = current = previous = null;
22    }
23    public void add(T aData)
24    {
25        ListNode newNode = new ListNode(aData,null);
26        if(head == null)
27        {
28            head = current = newNode;
29            return;
30        }
31        ListNode temp = head;
32        while(temp.link != null)
33            temp = temp.link;
34        temp.link = newNode;
35    }
36    public void print()
37    {
38        ListNode temp = head;
39        while(temp != null)
40        {
41            System.out.println(temp.data);
42            temp = temp.link;
43        }
44    }
45    public void addAfterCurrent(T aData)
46    {
47        if(current == null)
48            return;
49        ListNode newNode = new ListNode(aData,current.link);
50        current.link = newNode;
51    }
52    public T getCurrent()
53    {
54        if(current == null)
55            return null;
56        return current.data;
57    }

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58 public void setCurrent(T aData)
59 {
60     if(aData == null || current == null)
61         return;
62     current.data = aData;
63 }
64 public void gotoNext()
65 {
66     if(current == null)
67         return;
68     previous = current;
69     current = current.link;
70 }
71 public void reset()
72 {
73     current = head;
74     previous = null;
75 }
76 public boolean hasMore()
77 {
78     return current != null;
79 }
80 public void removeCurrent()
81 {
82     if(current == head)
83     {
84         head = head.link;
85         current = head;
86     }
87     else
88     {
89         previous.link = current.link;
90         current = current.link;
91     }
92 }
93 }
94
```