

### IntLL.java

```
1 /*
2  * Written by JJ Shepherd
3 */
4 public class IntLL
5 {
6     private class ListNode
7     {
8         int data;
9         ListNode link;
10    public ListNode(int aData, ListNode aLink)
11    {
12        data = aData;
13        link = aLink;
14    }
15}
16 private ListNode head;//First element
17 private ListNode current;//Current node of interest
18 private ListNode previous;//One node behind current
19
20 public IntLL()
21 {
22     head = current = previous = null;
23 }
24 public void add(int aData)
25 {
26     ListNode newNode = new ListNode(aData,null);
27     if(head == null)//Empty list
28     {
29         head = current = newNode;
30         return;
31     }
32     ListNode temp = head;
33     while(temp.link != null)
34         temp = temp.link;
35     temp.link = newNode;
36 }
37 public void addAfterCurrent(int aData)
38 {
39     if(current == null)
40         return;
41     ListNode newNode = new ListNode(aData,current.link);
42     current.link = newNode;
43 }
44 public void print()
45 {
46     ListNode temp = head;
47     while(temp != null)
48     {
49         System.out.println(temp.data);
50         temp = temp.link;
51     }
52 }
53 public int getCurrent()
54 {
55     if(current == null)
56         return 0;
57     return current.data;
```

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```
58 }
59 public void setCurrent(int aData)
60 {
61     if(current == null)
62         return;
63     current.data = aData;
64 }
65 public void gotoNext()
66 {
67     if(current != null)
68     {
69         previous = current;
70         current = current.link;
71     }
72 }
73 public boolean hasMore()
74 {
75     return current != null;
76 }
77 public void reset()
78 {
79     current = head;
80     previous = null;
81 }
82 public void removeCurrent()
83 {
84     if(current != null && previous != null)
85     {
86         previous.link = current.link;
87         current = current.link;
88     }
89     else if(current != null && previous == null)
90     {
91         head = head.link;//current = current.link;
92         current = head;
93     }
94 }
95 }
96 }
```