

# Set 07

- 1 `LinkedList ll = new LinkedList(); ll.append(5); ll.add(8); ll.append(3); ll.insert(1, 7); System.out.println(ll);`

☒ A 8 7 5 3  
B 8 5 7 3  
C 3 7 5 8  
D 3 5 7 8

- 2 `LinkedList ll = new LinkedList(); ll.add(5); ll.add(8); ll.append(3); ll.append(7); ll.remove(1); System.out.println(ll);`

A 7 5 8  
B 7 3 8  
☒ C 8 3 7  
D 8 5 7

- 3 What's wrong with the implementation?

```
1 void remove(int index) {  
2     if (index < 0 || index >= size())  
3         return;  
4     if (index == 0) {  
5         Node temp = head;  
6         head = head.getNext();  
7         temp.setNext(null);  
8     }  
9     else {  
10        int i = 0;  
11        Node current = head;  
12        while (i < index - 1) {  
13            i = i++ + 1;  
14            current = current.getNext();  
15        }  
16        Node temp = current.getNext();  
17        current.setNext(current.getNext().getNext());  
18        temp.setNext(null);  
19    }  
20 }
```

A Node current = head;  
B while (i < index - 1)  
☒ C i = i++ + 1;  
D current.setNext(current.getNext());