

Lists (15 points)

Name KEY

1. Consider the following Node and List classes.

```
class Node {  
    private Object data;  
    private Node next;  
  
    public Node(Object d, Node n) { data = d; next = n; }  
  
    public Node getNext() { return next; }  
  
    public Object getData() { return data; }  
  
    public void setNext(Node n) { next = n; }  
  
    public void setData(Object x) { data = x; }  
  
    public String toString() {  
        String suffix = "";  
        if(next == null)  
            suffix = "***";  
        else suffix = "**";  
        return data.toString() + suffix;  
    }  
}  
  
public class List {  
    private Node head;  
  
    public List() { head = null; }  
  
    public void add(Object t) { head = new Node(t, head); }  
  
    public void addAlso(Object t) {  
        if (head == null) {  
            head = new Node(t, null);  
        }  
        else {  
            Node p = head;  
            Node q = p;  
            while(p != null) {  
                q = p;  
                p = p.getNext();  
            }  
            Node m = new Node(t, null);  
            q.setNext(m);  
        }  
    }  
}
```

(115 - x) / 115

KEY

115

- x

15

15

15

10

15

15

20

10

115