

## StackManager.java

```
1 /**
2  *
3  * @author grantelgin
4  *
5  *      StackManager contains all the methods to manage a linkedList
6  *      Stack
7  *      required by StackDriver.
8  */
9 public class StackManager {
10     private int count;
11     private StackNode top;
12
13     public StackManager() {
14         setTop(null);
15         setCount(0);
16     }
17
18     public boolean isEmpty() {
19         return (top == null);
20     }
21
22     public StackNode peek() {
23         if (isEmpty())
24             return null;
25
26         return top;
27     }
28
29     public StackNode pop() {
30         if (isEmpty())
31             return null;
32
33         StackNode rtn = top;
34         top = top.getNext();
35         count--;
36
37         return rtn;
38     }
39
40     public boolean push(StackNode move) {
41         StackNode n = new StackNode();
```

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```
42         n.setColumn(move.getColumn());
43         n.setRow(move.getRow());
44
45         n.setNext(top);
46         top = n;
47         count++;
48         return true;
49     }
50
51     public StackNode getTop() {
52         return top;
53     }
54
55     public void setTop(StackNode top) {
56         this.top = top;
57     }
58
59     public int getCount() {
60         return count;
61     }
62
63     public void setCount(int count) {
64         this.count = count;
65     }
66 }
67
```