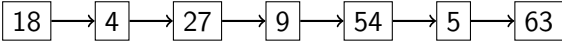


CSE 143: Computer Programming II

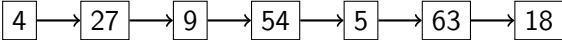
QuickCheck: LinkedList Programming Solutions (due Tuesday, January 27)

0. Implementing frontToBack

Write a method `frontToBack` that could be added to the `LinkedList` class that moves the first element of the list to the back end of the list. Suppose a `LinkedList` variable named `list` stores the following elements from front (left) to back (right):

list: 

If you made the call of `list.frontToBack()`, the list would then store the elements in this order:

list: 

If the list is empty or has just one element, its contents should not be modified. Do not call any other methods on the `LinkedList` object such as `add`, `remove`, or `size`. Do not create new `ListNode` objects (though you may have as many `ListNode` variables as you like. Do not use other data structures or mutate the data of any existing nodes.

Solution:

```
1 public void frontToBack() {
2     if (front != null) {
3         ListNode current = front;
4         while (current.next != null) {
5             current = current.next;
6         }
7         current.next = front;
8         front = front.next;
9         current.next.next = null;
10    }
11 }
```