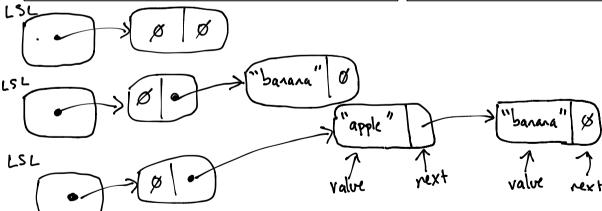
```
public interface StringList {
  /* Add an element at the beginning of the list */
  void prepend(String s); // (new!)
  /* Add an element at the end of the list */
  void add(String s);
  /* Get the element at the given index */
  String get(int index);
  /* Get the number of elements in the list */
  int size();
  /* Add an element at the specified index */
  void insert(int index, String s);
  /* Remove the element at the specified index */
  void remove(int index);
import static org.junit.Assert.assertEquals;
import org.junit.Test;
public class TestStringList {
  @Test
  public void testAddThenGet() {
    StringList slist = new LinkedStringList();
    slist.prepend("banana");
    slist.prepend("apple");
    assertEquals(
                                    , slist.get(0));
    assertEquals(
                                     , slist.get(1));
  @Test
  public void testAddThenSize() {
    StringList slist = new LinkedStringList();
    slist.prepend("banana");
    slist.prepend("apple");
    assertEquals(
                                     , slist.size());
  }
```

```
class Node {
  String value;
  Node next;
  public Node(String value, Node next) {
    this.value = value;
    this.next = next;
}
public class LinkedStringList implements StringList {
  Node front;
  // How will we construct it?
  // How will we implement the methods?
  // Focus on .prepend(), .get(), and the diagram first
}
```



@A.prepend("banana")		A.preper	nd("apple")
this	@A	this	@A
S	"banana"	S	"apple"
returns:		returns:	

@A	LinkedStringList front: 40H 65	
ØB	Node Value "banana" rext aull	
@(Node "apple" value "apple"	

```
public class TestStringList {
  ... all code from other side ...
  @Test
  public void testAddMany() {
    StringList slist = new LinkedStringList();
slist.add("m");
slist.add("n");
    slist.add("o");
    // memory diagram here!
    slist.add("p");
    assertEquals("p", slist.get(3));
}
public class LinkedStringList {
  ... all code from other side ...
  // Now focus on .add() and .size()
}
```

@A	LinkedStringList front: @B	@C	Node value: "m" next: @D
@B	Node value: null next: @C	@D	Node value: "n" next: @E
		@E	Node value: "o" next: null

PA.add("p")				
this				
s				
returns:				