

Insert Item at Position Test (Test Case 3):

Test No:	1
Test Case Description:	Asserting that the List has four (4) nodes at the start of the entire test case.
Test Prerequisites:	List was created with nodes Bravo, Delta, Echo, Foxtrot
Test Data:	4, testList.getLength()
Test Results:	Success, length was 4.
Expected Result:	Success, length of 4.
Your Resolution:	N/A

Test No:	2
Test Case Description:	First half of a group assertion, asserting that the List has six (6) nodes after performing two insert operations.
Test Prerequisites:	Two insert operations performed for inserting at position zero (0) the node “Alpha” and inserting at position two (2) the node “Charlie”.
Test Data:	6, testList.getLength()
Test Results:	Success, length was 6.
Expected Result:	Success, length of 6.
Your Resolution:	N/A

Test No:	3
Test Case Description:	Second half of a group assertion, asserting that the name of the node at position two (2) is “Charlie”.
Test Prerequisites:	Two insert operations performed for inserting at position zero (0) the node “Alpha” and inserting at position two (2) the node “Charlie”.
Test Data:	“Charlie”, testList.get(2).getName()
Test Results:	Failure. <Alpha>
Expected Result:	Success. <Charlie>

Your Resolution:	<p>Modify get(int i) method's for loop to start at 0, the proper starting point for the List. (This gave the actual result of <Delta> instead of <Charlie> leading to believe the insert method has a problem.</p> <p>Adjusted insert method to insert the node before the node at the position instead of after as it was currently written. Also adjusted this test to addHead instead of insert(0). Inserting at zero (0) seems to only work when the List is empty – an interesting find.</p>
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Test No:	4
Test Case Description:	Asserting that the output of the entire List is the expected names of nodes.
Test Prerequisites:	List of six (6) nodes with NATO phonetic alphabet names in order.
Test Data:	String "Alpha\nBravo\nCharlie\nDelta\nEcho\Foxtrot\n" Output Stream of testList.print()
Test Results:	List print() outputs: Alpha Bravo Charlie Delta Echo Foxtrot
Expected Result:	This was the expected result. However, it would not have worked had the previous insert test not been run.
Your Resolution:	N/A