Data Structures & Algorithms

Lab Exercise 7 – Binary Tree Project (Part 3)

Due: to be demonstrated by week 21 (wk beginning 18-Feb)

Learning outcomes
At the end of this lab you should be able to:

- Describe and implement the different cases for deleting a node from a binary tree.

Write the implementation of a LinkedBinaryTree member function:

```
void deleteItem( Iterator const & position );
```

to locate and delete the specified node from the tree. Refer to the algorithm for deleteItem in lecture 21 (slides 19 to 21).
Make sure to handle to the three different edge cases (deleting a leaf node, deleting an internal node with one child node, deleting an internal node with two child nodes).

Test your implementation by calling one of the traversal methods (e.g. inorder) after deleting a node.