Subject: CSC2040 Class Test 3 Feedback
Date: Friday, 12 January 2018 at 10:53:37 Greenwich Mean Time
From: Maire Bowler
To: Dewei Liu

CSC2040 Data Structures and Algorithms and Programming Languages

Assessed Practical 3 Feedback sheet

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Part 1	
`int countStack(T item)` defined and implemented in LinkedStack.h	***Correct.***
items in stack counted either using a pointer, loop and if statement or using a temporary stack and `push()` and `pop()` or another acceptable method	***Correct.***
Testing:	
100 random integers from 0-9 are pushed onto s	***Correct.***
Returned counts 0-9 total 100	***Correct.***
Returned counts 10 – 19 total 0	***Correct.***

Part 2	
1. Code in main function completed as follows: (1) **Changed to char**	*Correct.*
(2) **Added sentence.addAtEnd(ch);**	*Correct.*
2. `void printList()` defined and implemented in LinkedList.h. List printed using a pointer and loop or functions of the Linkedlist class such as `getAt(i)` or `getNext()` or `setAtStart();`	*Correct.*
function called in main method and prints one character per line including spaces and the final full stop	*Correct.*
3. `int searchList(T item)` defined and implemented in LinkedList.h using either: a pointer, a loop and an if statement, or functions of the LinkedList class such as `getAt(i)` or `getNext()` or `setAtStart();`	*Correct.*
Testing:	
A letter that is in the list is found	*Correct.*
-1 is returned for a letter not in the list	*Correct.*

Part 3

1. The binary tree shown in Figure 1 is built (test by calling traverse on the tree). Result should be X + Y - 23 * 6	*Correct.*
The `evaluate` function contains a test for base case	*No base case included to check if tree is null.*
The `evaluate` function contains a test for `tree->item` is an operator	*Correct.*
The `evaluate` function contains a test for `tree->item` is a variable	
The `evaluate` function contains a `t`est for `tree -> item` is a constant	*Correct.*
Does *evaluate* produce correct result for 5,3? (-115)	*Correct.*

Grade Achieved :100