

CSC 016 – Class Assignment – Linked List

Use the LinkedList class you worked on in the lab as a base and extend it.

1. Add the following class methods (LinkedList class functions):
 - a. Insert at end of list function: `bool List::insertAtEnd(DataType data);`
 - i. The function should insert a value at the end of list.
 - ii. Return true/false on success/failure
 - b. Delete by value function: `bool List::deleteByValue(DataType data);`
 - i. The function should traverse the list looking for the data value and delete the first element it finds with the corresponding data value (if it exists).
 - ii. Return true/false on success/failure
2. Write a driver program to test the new methods
 - i. Add the tests to the existing main

Submission instructions

1. Document your code thoroughly inside the source file/s using C++ style comments (`/**` and/or `*/`)
2. Zip and upload the following files to blackboard:
 - a. Source files/s
 - b. Instructions on how to run your code
 - c. Program output examples

Hints

1. Always concentrate on the first error. Fix that first and recompile!
2. Remember, when it comes to errors, google is your friend