Assignment 2

Level 1:

    A. Implement in JavaScript the function findMiddle(L) than we did in class. The DLinkedList class is included from the DLinkedList.js file.

    B. Describe, in <u>pseudo-code</u>, how to implement the stack ADT using a DLinkedList. What is the running time of the push() and pop() methods in this case? Implement a new Stack class in JavaScript based on (using) the DLinkedList class like done in A above.

    C. Describe, in <u>pseudo-code</u>, how to implement the queue ADT using a DLinkedList. What is the running time of the enqueue() and dequeue() methods in this case? Implement a new Queue class in JavaScript using on the DLinkedList class.

Level2:

C-2.2 Describe, in <u>pseudo-code</u>, how to implement the queue ADT using two stacks. What is the running time of the enqueue() and dequeue() methods in this case?