

Gagnaskipan exam 2 - spring 2024

SLL Recursion

Implement the following functions using recursive programming.

- (10%) ***sum_even_numbers(node)***
 - Takes in the parameter node which is the head of a singly linked list
 - Returns the sum of all even numbers in the singly linked list
 - Use % operator to find if a number is even
- (5%) ***remove_even_numbers(node)***
 - Takes in the parameter node which is the head of a singly linked list
 - Removes all even numbers from the list
 - Returns the head of the new list(without the even numbers) from the function

DLL

Implement the following function inside the DLL class provided.

- (10%) ***remove_negative_values(self)***
 - Finds and removes all negative values ($x < 0$) from the doubly linked list