Linked List

Intermediate Level Questions:

1. Write a program to get the "Nth" Node from the end of the Singly Linked List.
   [Practice here: https://practice.geeksforgeeks.org/problems/nth-node-from-end-of-linked-list/1]

2. Write a Program to check whether the Singly Linked list is a palindrome or not.
   [Practice here: https://practice.geeksforgeeks.org/problems/check-if-linked-list-is-pallindrome/1]

3. Write a Program to reverse the Linked List. (Both Iterative and recursive)
   [Practice here: https://practice.geeksforgeeks.org/problems/reverse-a-linked-list/1]

4. Reverse a Linked List in group of Given Size. [**Very Imp**]
   [Practice here: https://practice.geeksforgeeks.org/problems/reverse-a-linked-list-in-groups-of-given-size/1]

5. Write a program to Detect loop in a linked list.
   [Practice here: https://practice.geeksforgeeks.org/problems/detect-loop-in-linked-list/1]

6. Write a program to find the length of loop in the linked list.
   [Practice here: https://practice.geeksforgeeks.org/problems/find-length-of-loop/1]

7. Write a function to delete the Linked List.
   [Follow: https://www.geeksforgeeks.org/write-a-function-to-delete-a-linked-list/]

8. Remove Duplicates in a sorted Linked List.
   [Practice here: https://practice.geeksforgeeks.org/problems/remove-duplicate-element-from-sorted-linked-list/1]

9. Remove Duplicates in a Unsorted Linked List.
   [Practice here: https://practice.geeksforgeeks.org/problems/remove-duplicates-from-an-unsorted-linked-list/1]

10. Write a Program to Move the last element to Front in a Linked List.
[Follow: https://www.geeksforgeeks.org/move-last-element-to-front-of-a-given-linked-list/]

11. Add “1” to a number represented as a Linked List.
[Practice here: https://practice.geeksforgeeks.org/problems/add-1-to-a-number-represented-as-linked-list/1]

12. Add two numbers represented by linked lists.
[Practice here: https://practice.geeksforgeeks.org/problems/add-two-numbers-represented-by-linked-lists/1]

13. Intersection of two Sorted Linked List.
[Practice here:https://practice.geeksforgeeks.org/problems/intersection-of-two-sorted-linked-lists/1]

14. Intersection Point of two Linked Lists.
[Practice here: https://practice.geeksforgeeks.org/problems/intersection-point-in-y-shapped-linked-lists/1]

15. Merge Sort For Linked lists.[**Very Important**]
[Follow: https://www.geeksforgeeks.org/merge-sort-for-linked-list/]

16. Quicksort for Linked Lists.[**Very Important**]
[Follow: https://www.geeksforgeeks.org/quicksort-on-singly-linked-list/]

17. Find the middle Element of a linked list.
[Practice here: https://practice.geeksforgeeks.org/problems/finding-middle-element-in-a-linked-list/1]

18. Check if a linked list is a circular linked list.
[Practice here: https://practice.geeksforgeeks.org/problems/circular-linked-list/1]

19. Split a Circular linked list into two halves.
[Practice here: https://practice.geeksforgeeks.org/problems/split-a-circular-linked-list-into-two-halves/1]

20. Deletion from a Circular Linked List.
[Follow here: https://www.geeksforgeeks.org/deletion-circular-linked-list/]

21. Count Nodes in a Circular Linked List.
[Follow here: https://www.geeksforgeeks.org/count-nodes-circular-linked-list/]

22. Exchange first and last nodes in a linked list.
[Follow here: https://www.geeksforgeeks.org/exchange-first-last-node-circular-linked-list/]

23. Reverse a Doubly Linked list.
[Practice here: https://practice.geeksforgeeks.org/problems/reverse-a-doubly-linked-list/1]

24. Find pairs with a given sum in a DLL.
[Follow here: https://www.geeksforgeeks.org/find-pairs-given-sum-doubly-linked-list/]

25. Count triplets in a sorted DLL whose sum is equal to given value "X".
[Follow here: https://www.geeksforgeeks.org/count-triplets-sorted-doubly-linked-list-whose-sum-equal-given-value-x/]

26. Sort a "k" sorted Doubly Linked list.[**Very IMP**]
[Follow here: https://www.geeksforgeeks.org/sort-k-sorted-doubly-linked-list/]

27. Rotate Doubly Linked list by N nodes.
[Follow here: https://www.geeksforgeeks.org/rotate-doubly-linked-list-n-nodes/]

28. Rotate a Doubly Linked list in group of Given Size.[**Very IMP**]
[Follow here: https://www.geeksforgeeks.org/reverse-doubly-linked-list-groups-given-size/]

29. Can we reverse a linked list in less than O(n) ?
[Study : https://www.geeksforgeeks.org/can-we-reverse-a-linked-list-in-less-than-on/]

30. Why Quicksort is preferred for. Arrays and Merge Sort for Linked Lists ?
[Study : https://www.geeksforgeeks.org/why-quick-sort-preferred-for-arrays-and-merge-sort-for-linked-lists/]