

Institute of Information Technology
Noakhali Science and Technology University
Software Engineering Program
Problem list (Linked List)

Category A:

Singular Linked List Double Linked list and Circular Linked List.

1. Write a code for traversing a linked list.
2. Write a code for counting number of nodes in a linked list.
3. Write a code for inserting node in a linked list (initial, middle and last) position in the node.
4. Write a code for searching an item for sorted and unsorted linked list.
5. Write a code for deleting node in a linked list (initial, middle and last) position in the node.
6. Write a code to display the elements in a reverse order in a linked list
7. Find nth node from the end of linked list
8. Move Last Element of Linked List to Front
9. Move the first element of the linked list to the end

Category B:

1. Remove duplicate elements from sorted linked list
2. Detect loop in linked list
3. Remove loop in linked list
4. Function to check if a singly linked list is a palindrome
5. Delete last occurrence of an item from linked list
6. Print the Middle of a given linked list

Category C:

1. Flattening a linked list
2. Delete n nodes after m nodes of a linked list.
3. Merge a linked list into another linked list at alternate positions.
4. Merge Sort a singly Linked List
5. Binary Search in a Linked List
6. Reverse a linked list using 2 pointers technique using XOR operator