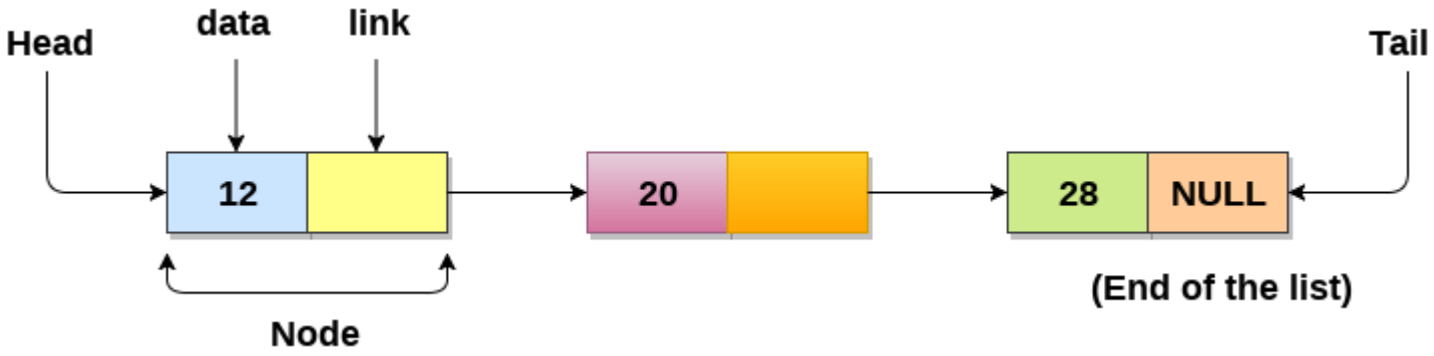
# Linked List

- Linked List can be defined as collection of objects called **nodes** that are randomly stored in the memory.
- A node contains two fields i.e. data stored at that particular address and the pointer which contains the address of the next node in the memory.
- The last node of the list contains pointer to the null.



# Types of Linked List

**The following are the types of linked list:**

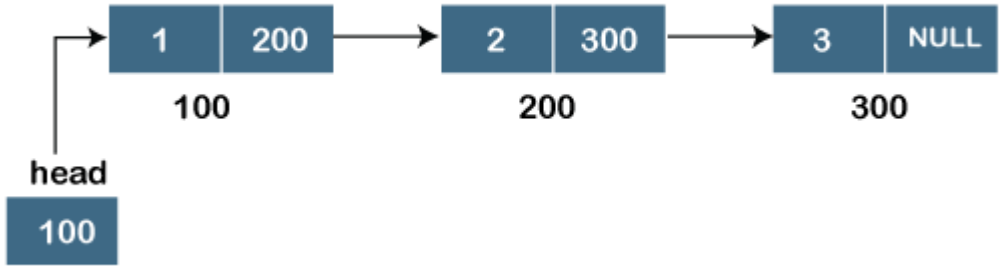
Singly Linked list

Doubly Linked list

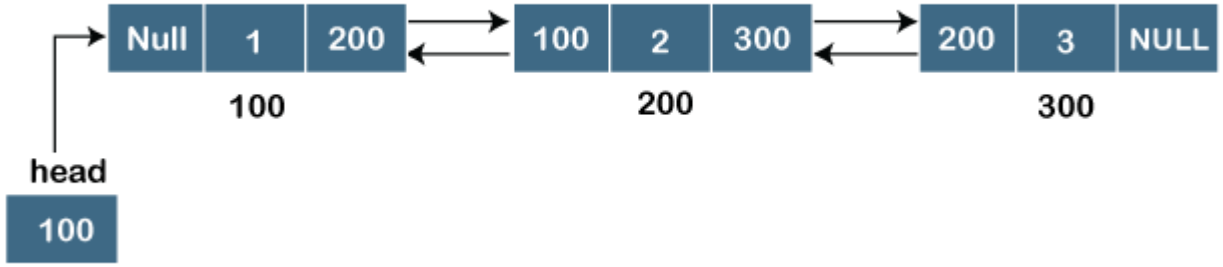
Circular Linked list

Doubly Circular Linked list

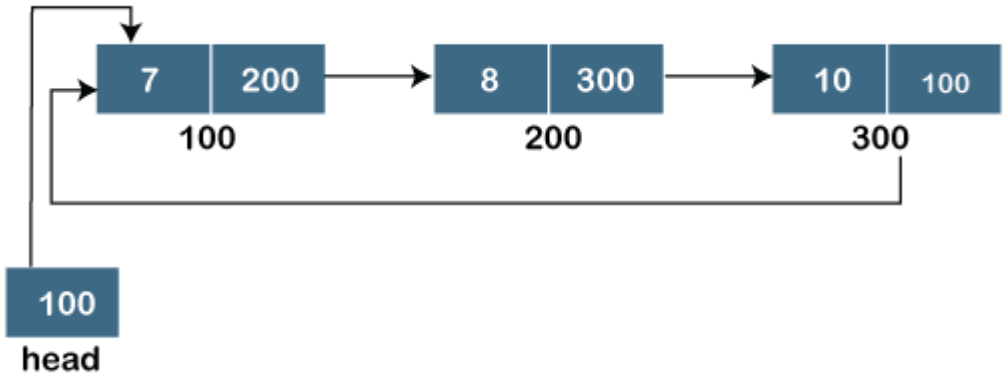
# Singly Linked list



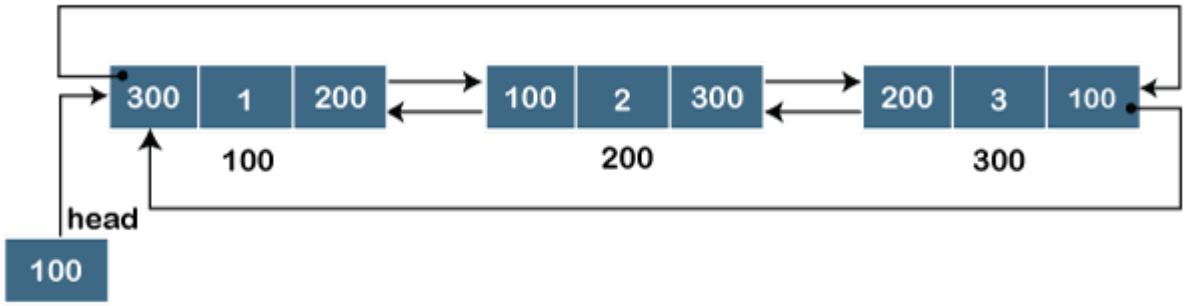
# Doubly linked list



# Circular linked list



# Doubly Circular linked list



# Practice Questions LinkedList

- Circular LinkedList
- Doubly Linked List Deletion of a node
- https://leetcode.com/problems/remove-nth-node-from-end-of-list/
- https://leetcode.com/problems/linked-list-cycle-ii/
- https://leetcode.com/problems/palindrome-linked-list/
- https://practice.geeksforgeeks.org/problems/remove-loop-in-linked-list/1
- https://practice.geeksforgeeks.org/problems/circular-linked-list/1
- https://practice.geeksforgeeks.org/problems/given-a-linked-list-of-0s-1s-and-2s-sort-it/1

# Practice Questions Array

- https://practice.geeksforgeeks.org/problems/spirally-traversing-a-matrix-1587115621/1
- https://practice.geeksforgeeks.org/problems/union-of-two-arrays3538/1
- https://leetcode.com/problems/best-time-to-buy-and-sell-stock/
- https://practice.geeksforgeeks.org/problems/factorials-of-large-numbers2508/1
- https://practice.geeksforgeeks.org/problems/missing-number-in-array1416/1
- https://practice.geeksforgeeks.org/problems/rotate-array-by-n-elements-1587115621/1
- https://practice.geeksforgeeks.org/problems/array-of-alternate-ve-and-ve-nos1401/1