DSA

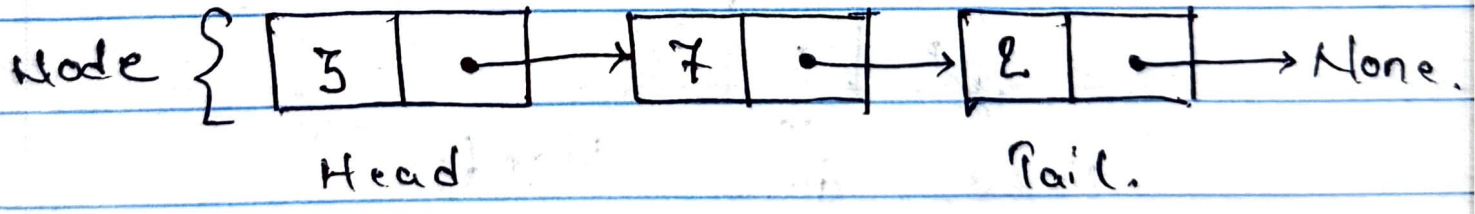
In array there are total 4 operations.

→ Insert.
→ Update / Access.
→ Delete
→ Search.

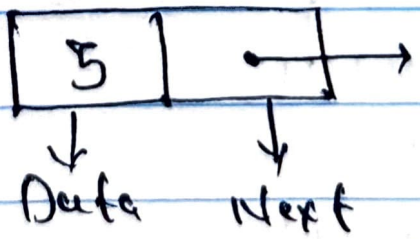
→ The ~~time~~ complexity of each operation

→ Insert O(n)
→ Search O(n)
→ Delete O(n)
→ Access O(1).

* Linked list



→ Each list is connected with pointe



* Each data is converted into Node.

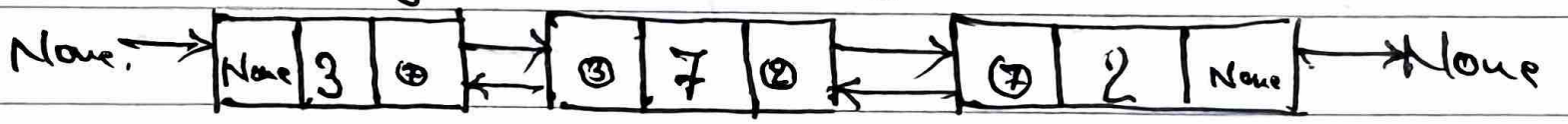
→ The last Node points to 'None'

→ In memory block each data is store info & memory block. 4 is for data and 4 is for next.

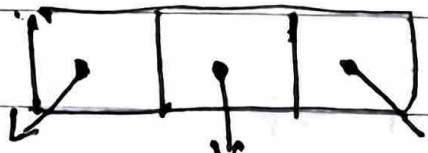
head.value is going to be data and head.next is going to be the address of next value.

→ Singly and doubly are two types.

→ Doubly :-



Head Tail.



Prev data Next.

* Linked List operations.

i) Access O(n)

ii) Search O(n)

iii) Insert O(1)

iv) Delete O(1)