

## Get Value In Linkedlist

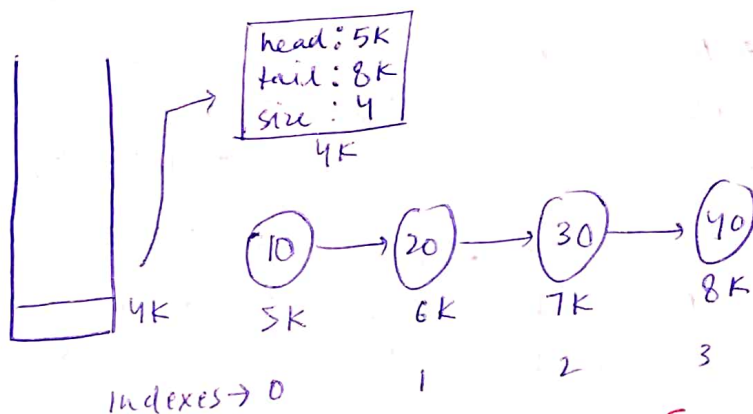
Hume (3) sawal likhne hai

get first Node  
get last Node  
get at a particular Index

### Special Cases :

\* get first me head ka data return karna hai!

\* get last me tail ka data return karna hai!



\* get At ko ek index pass krany, us index ke corresponding data return karna hai!

\* Agar get first, get last, and get At ka size zero hai aur ek function call kr diya jaye, toh -1 return hoga aur print hoga List is empty!

\* get At me agar out of range of linkedlist indexes

bol diya jayey! aur vo index hai hi nahi toh hum Invalid argument print krengey!

```
public int getFirst() {
    if (size == 0) {
        Syso("List is empty");
        return -1;
    } else {
        return head.data;
    }
}
```

```
public int getLast() {
    if (size == 0) {
        Syso("List is empty");
        return -1;
    } else {
        return tail.data;
    }
}
```

```
public int getAt (int idx) {
    if (size == 0) {
        Syso("List is empty"); return -1;
    } else if (idx < 0 || idx >= size) {
        Syso("Invalid argument");
        return -1;
    } else {
        Node temp = head;
        for (int i = 0; i < idx; i++) {
            temp = temp.next;
        }
        return temp.data;
    }
}
```

get first → T(n) : O(1)  
get last → S(n) : O(1)

get At → T(n) : O(n)  
get At → S(n) : O(1)