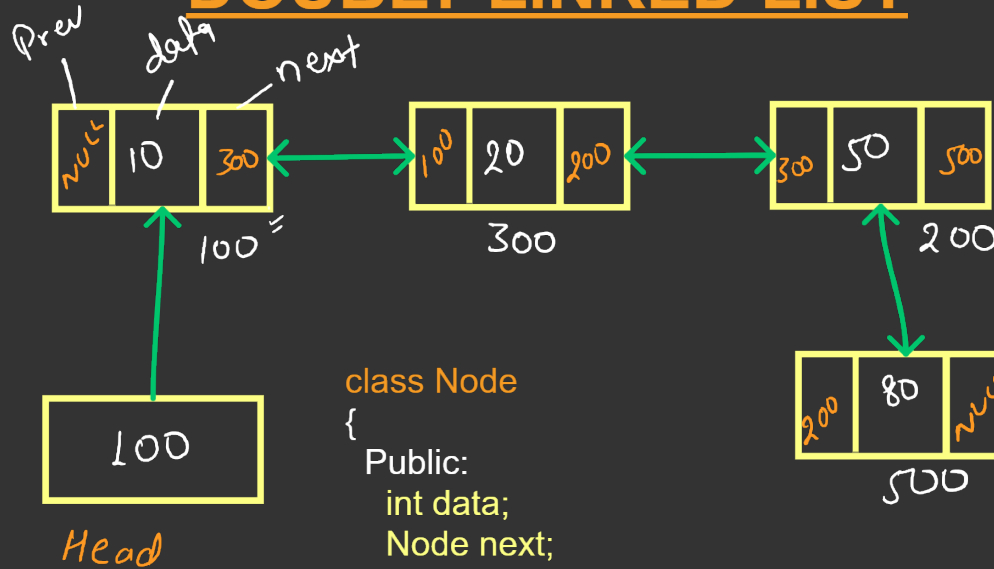


DOUBLY LINKED LIST

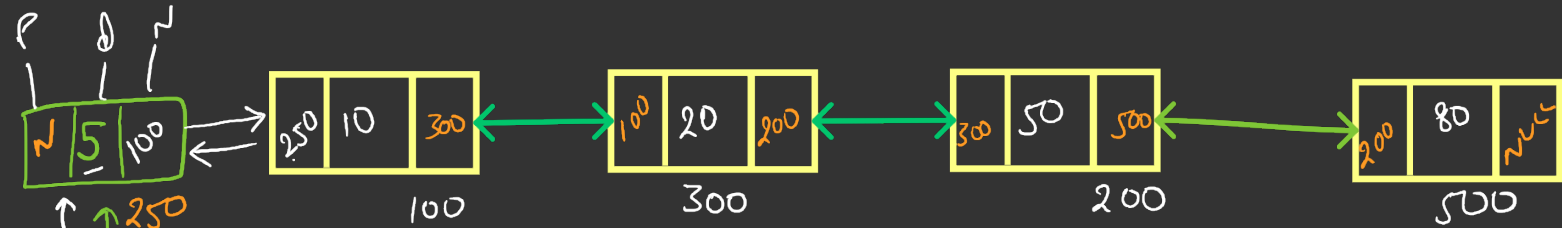


```
class Node
{
    Public:
        int data;
        Node next;
        Node Pre;
};
```

- ① Insertion
- ② Deletion
- Insert at start
- Insert at end
- Insert at any random position

```
class Node
{
    Public:
        int data;
        Node *Prev;
        Node *Next;
        Node(int value)
        {
            data =value; ✓
            Prev = NULL; ✓
            Next = NULL; ✓
        }
}
```

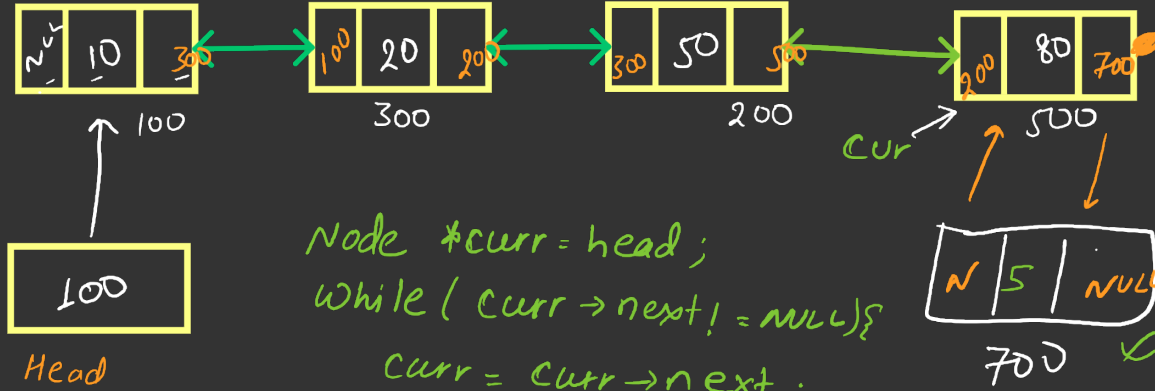




```

else {
    Node * temp = new Node(5);
    temp -> next = head;
    head -> prev = temp;
    head = temp;
}
    
```

→ if (head == NULL) {
 head = new Node(5);
 }

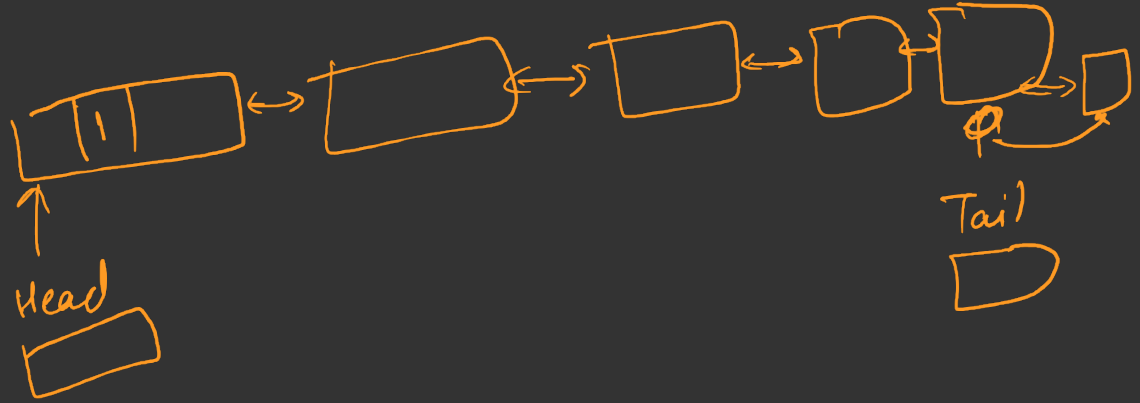


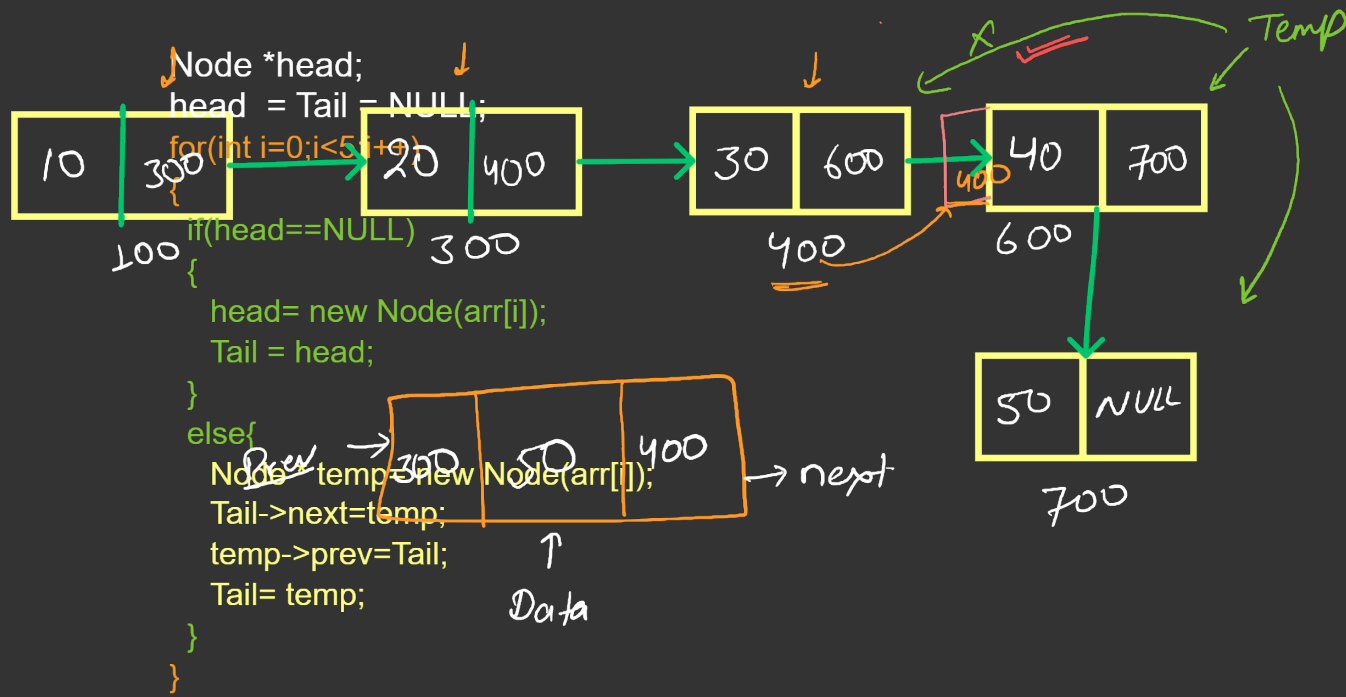
```
Node *curr = head;
while (curr->next != NULL) {
    curr = curr->next;
}
```

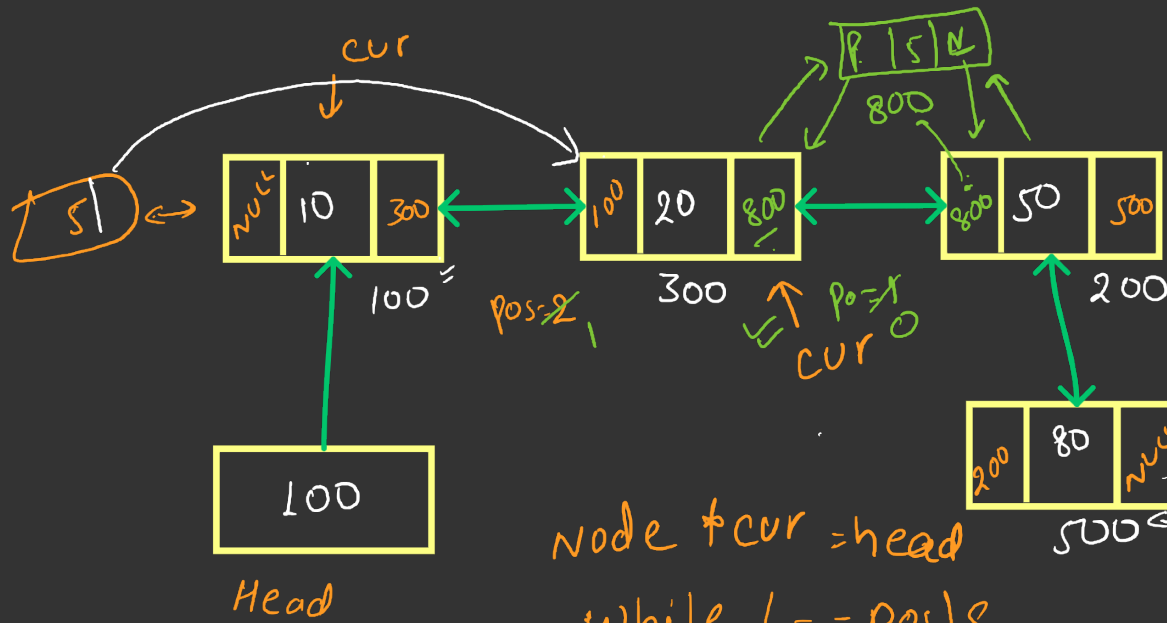
```
Node *temp = new Node(5);
curr->next = temp;
temp->prev = curr;
}
```

arr —

1	2	3	4	5
---	---	---	---	---







✓ $\frac{pos = 0}{pos = 5}$
 $\text{int } pos = 2$

Node *cur = head
 while (--pos) {

cur = cur->next
 }

Node *temp = new Node(s);
 temp->next = cur->next

temp->prev = cur;
 cur->next = temp;
 temp->next->prev = temp;

