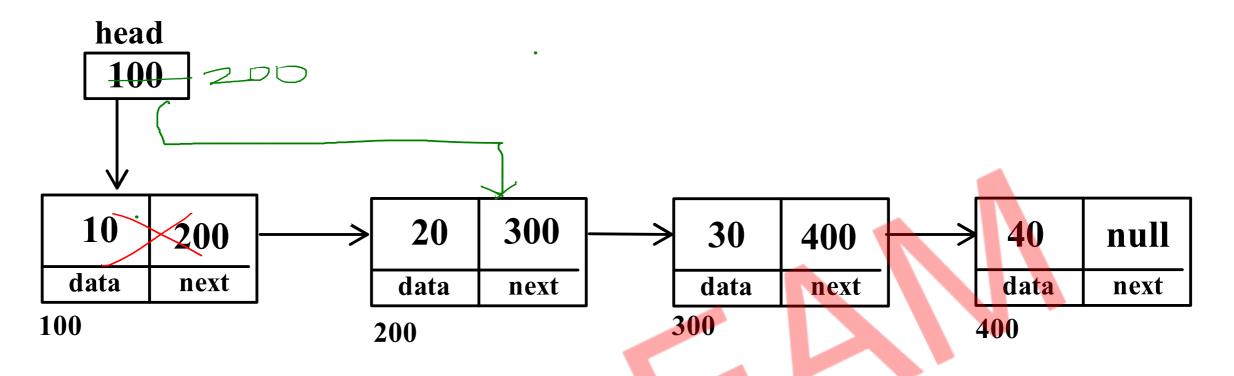
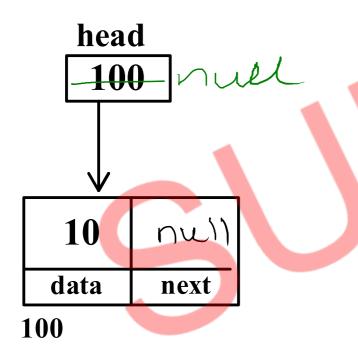
Singly Linear Linked List - Delete First



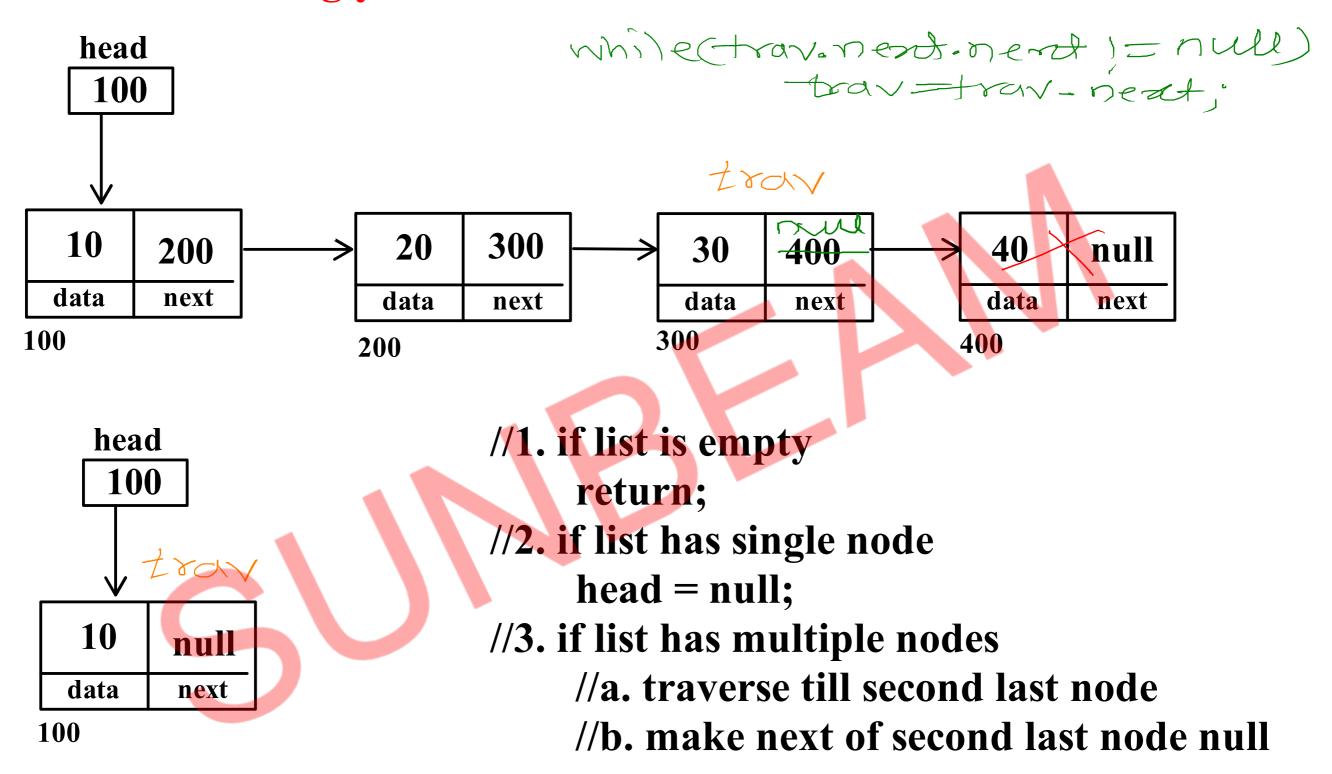


//1. if list is empty
return;
//2. if list is not empty
//a. move head on second node

T(n) = 0(1)

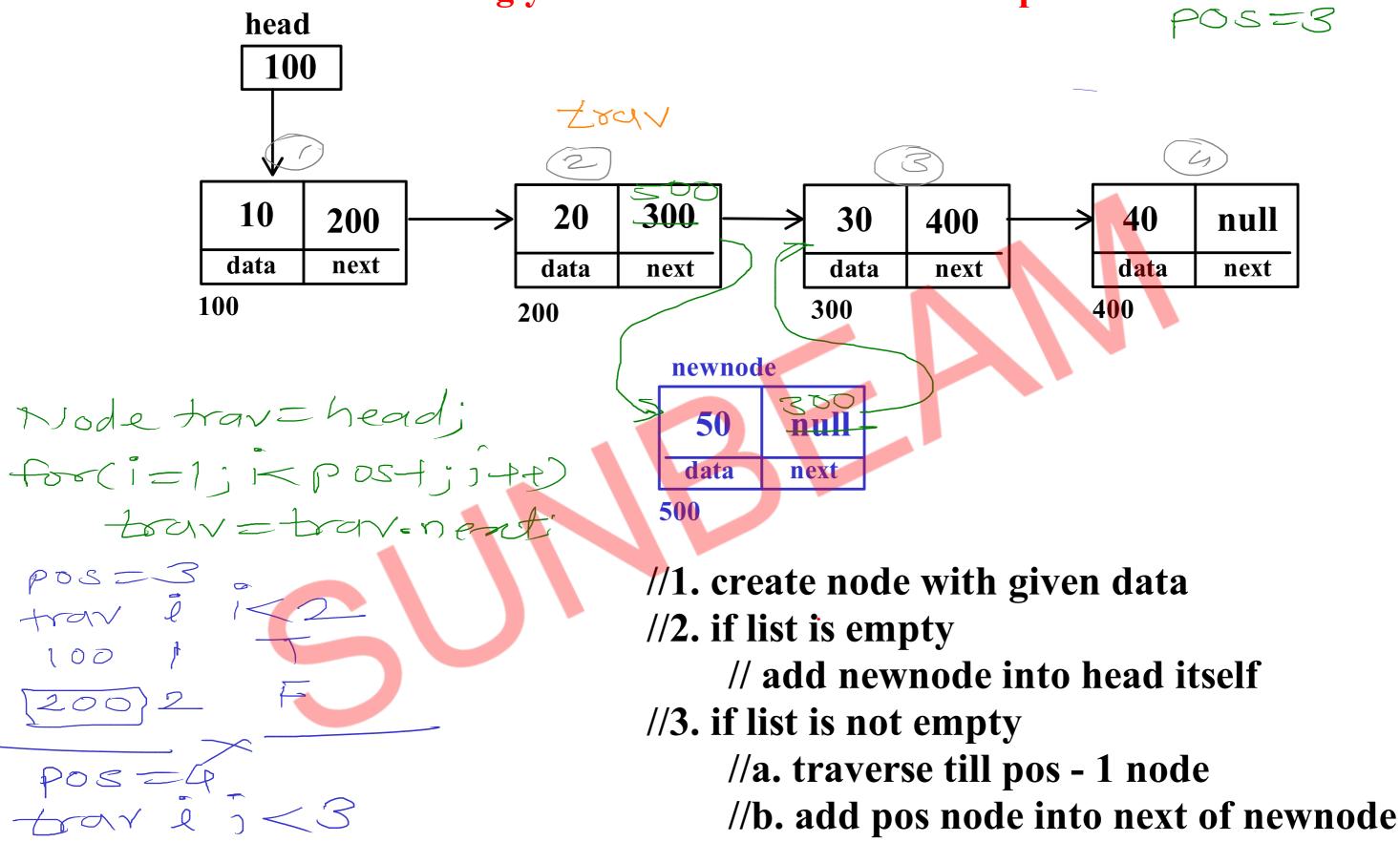
head = head = next

Singly Linear Linked List - Delete Last



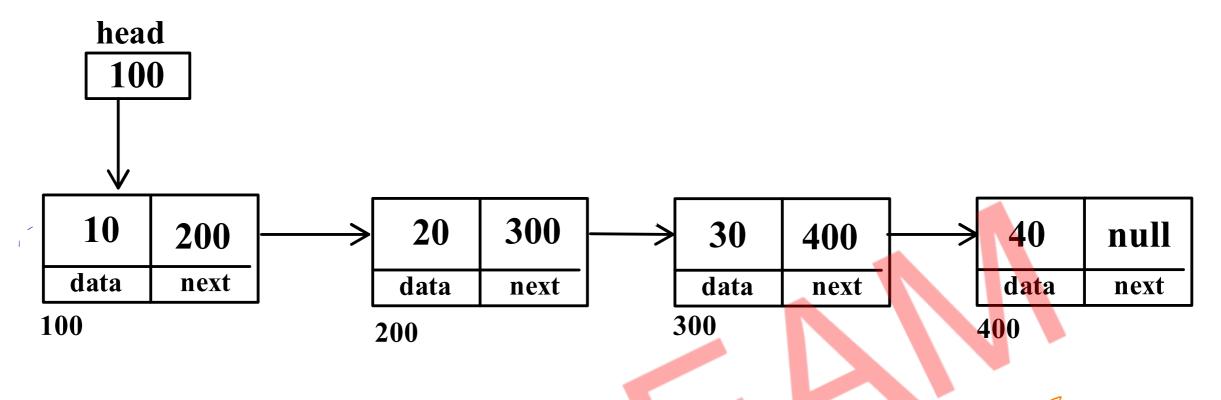
T(n)-0(n)

Singly Linear Linked List - Add at position



T(n) = O(n)

//c. add newnode into next of pos-1 node



Node trav=head;

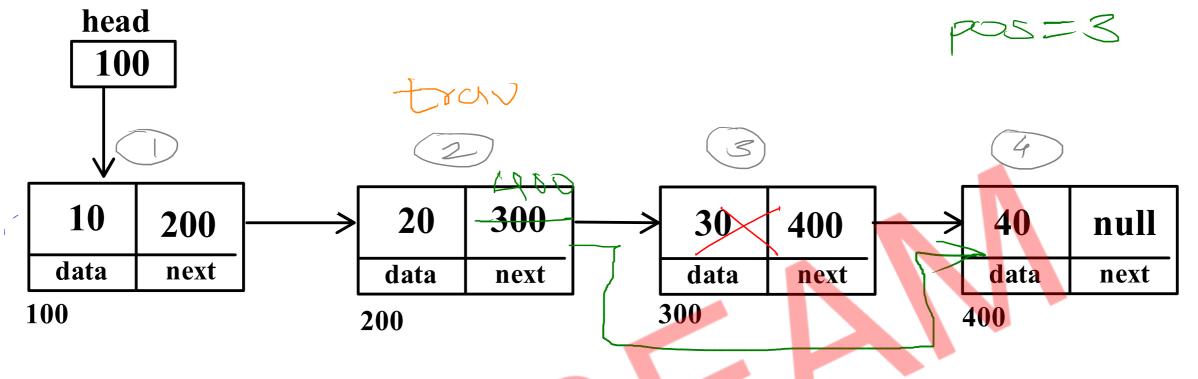
For(i=1; i post; i+t)

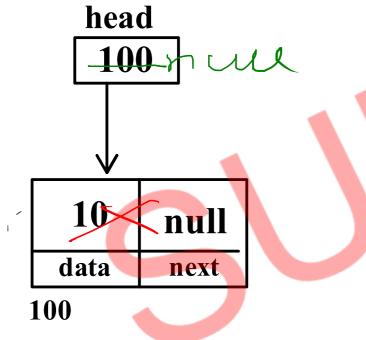
Louv=trav=neut;

newnode.next=trav=neut;

trav.next= newnode;

Singly Linear Linked List - Delete at position





T(n) = O(n)

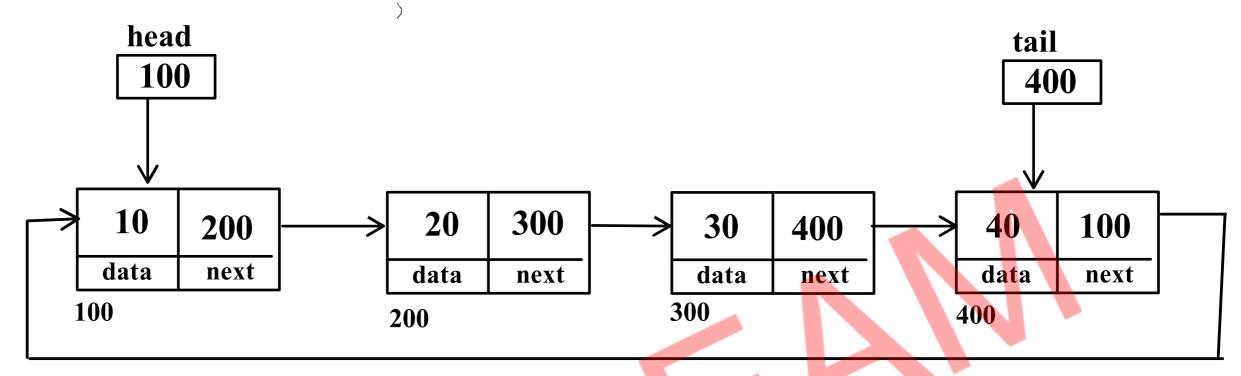
//1. if list is empty return;

//2. if list has single node head = null;

//3. if list has multiple nodes
//a. traverse till pos-1 node

//b. add pos+1 node into next of pos-1 node

Singly Circular Linked List - Display



Mode trav = head;

Sysout (trav. data)

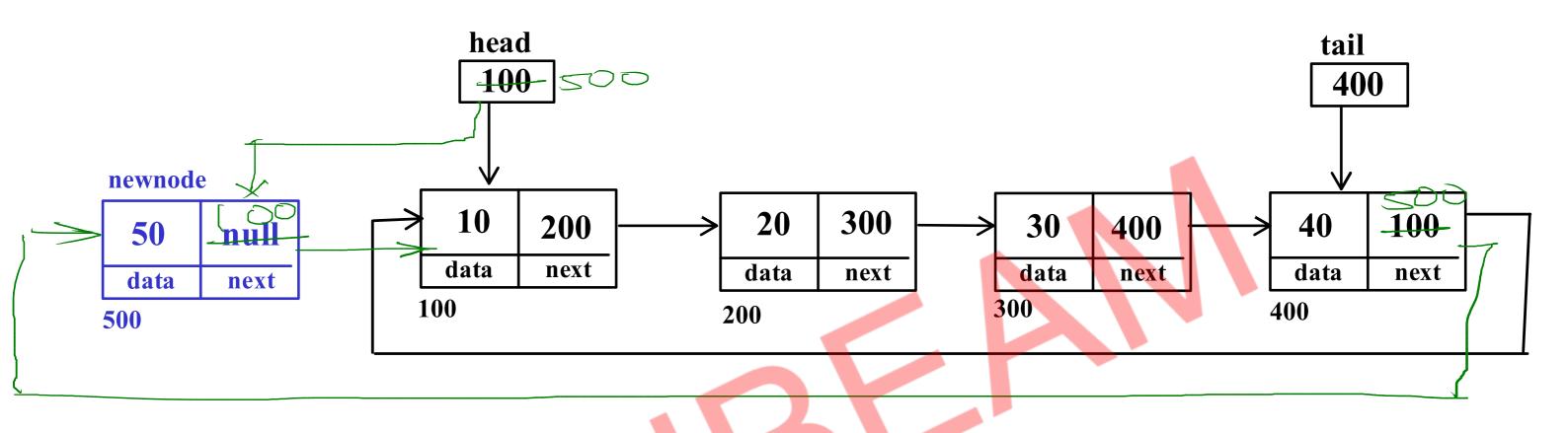
trav= trav. next;

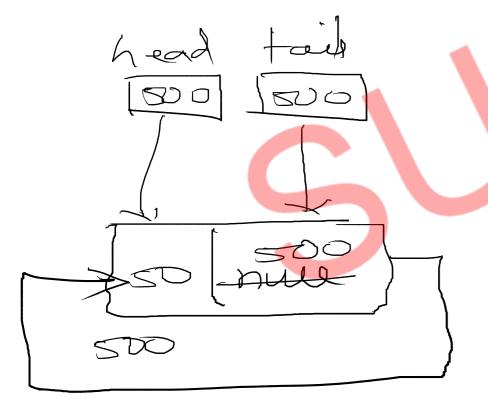
Swhile (trav j= head)

T(n)=O(n)

//1. create trav and start at head
//2. print data of current node
//3. go on next node
//4. repeat step 2 and 3 till last node

Singly Circular Linked List - Add First





//1. create node with value

//2. if list is empty

//a. add newnode into head and tail

//b. make list circular

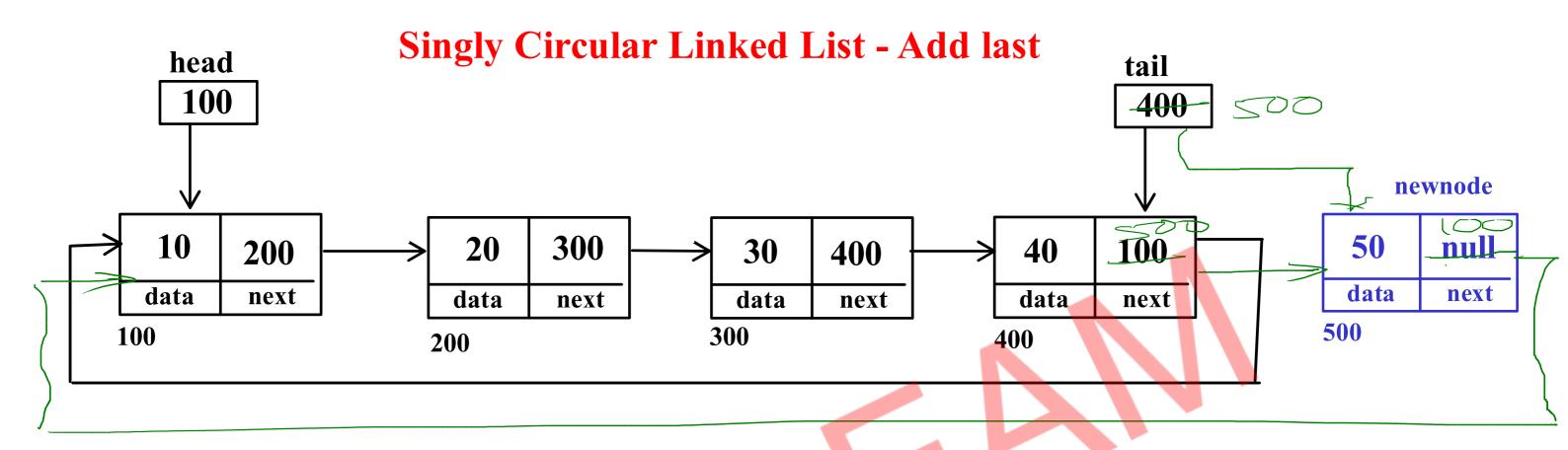
//3. if list is not empty

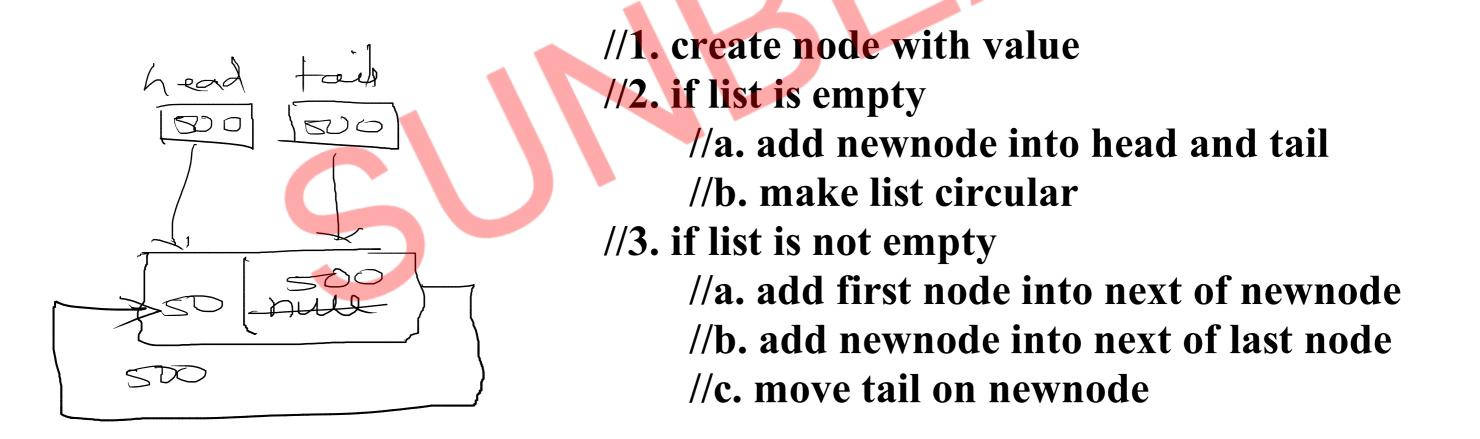
//a. add first node into next of newnode

//b. add newnode into next of last node

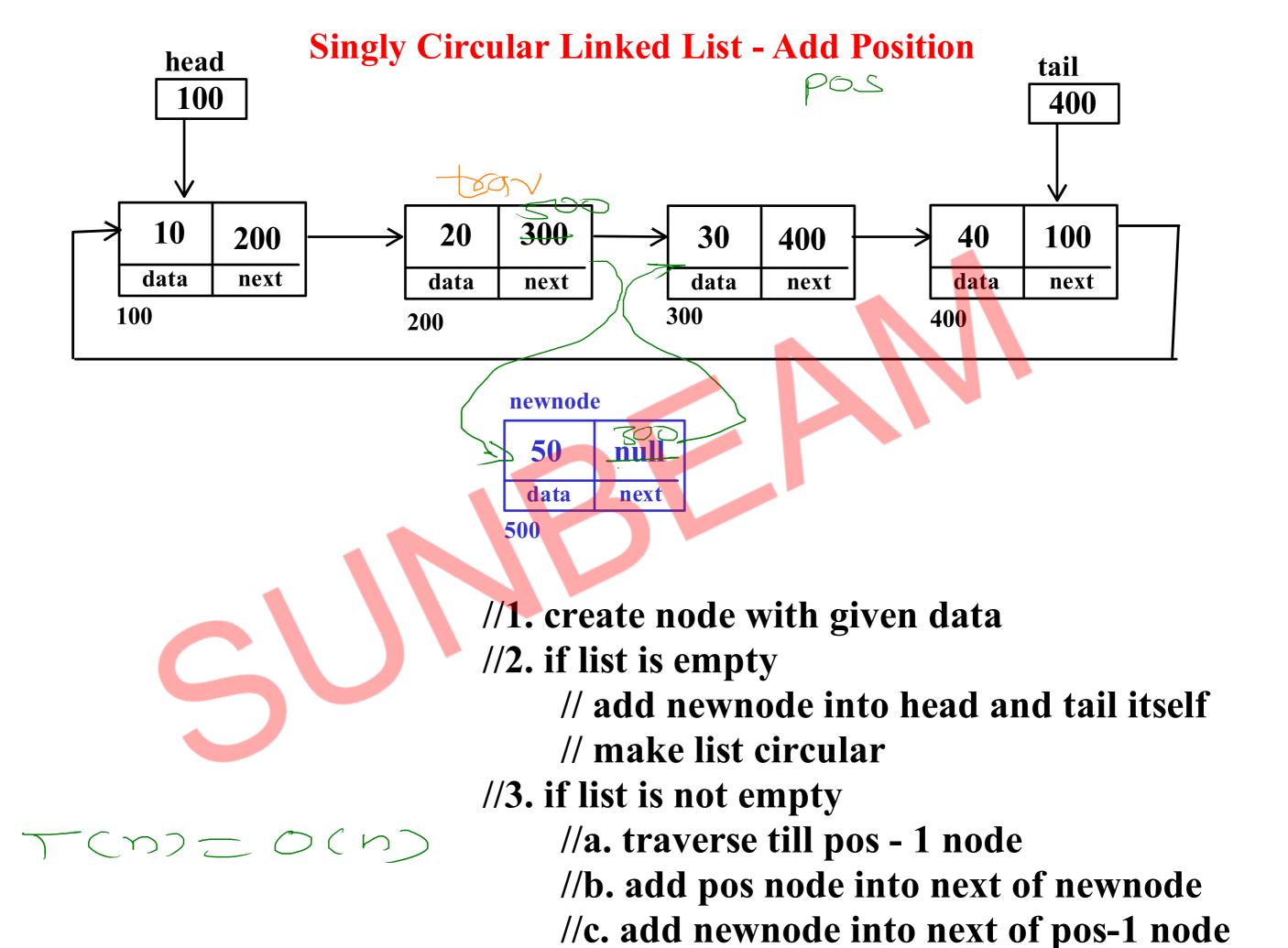
//c. move head on newnode

T(n)=0(1)

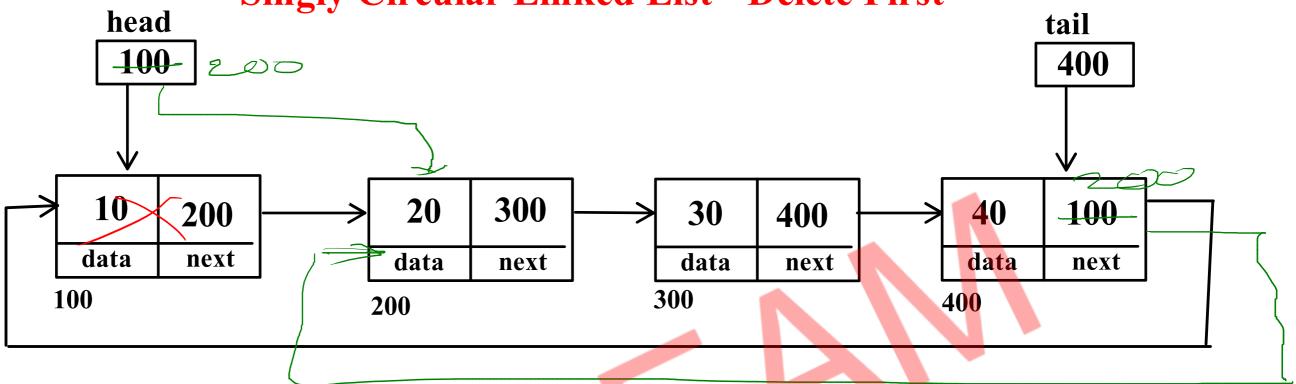


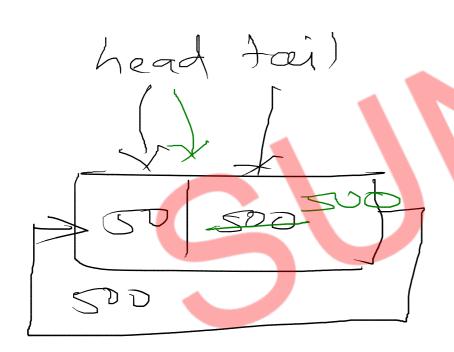


T(n)=0(1)



Singly Circular Linked List - Delete First





//1. if list is empty return;

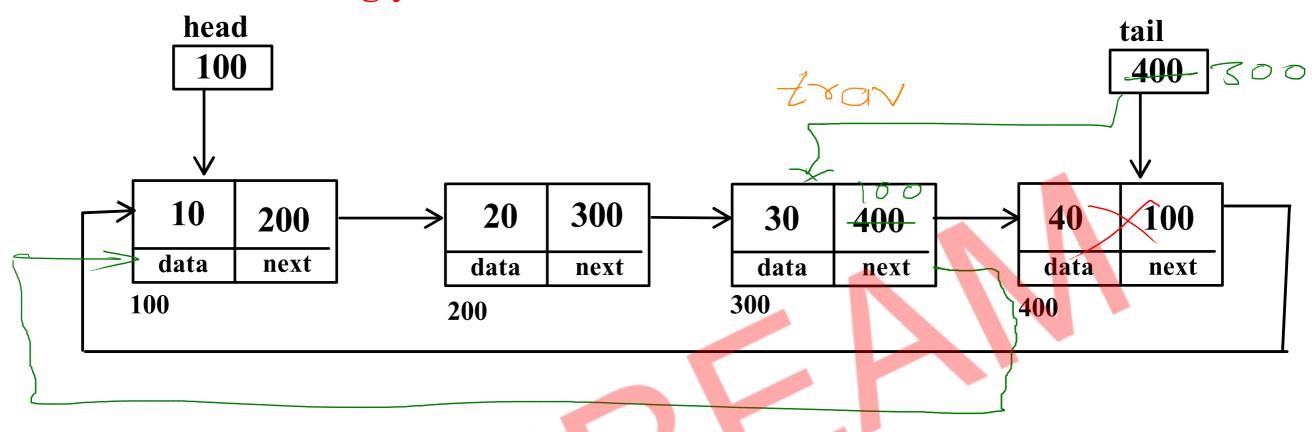
//2. if list has single node head = tail = null;

//3. if list has multiple nodes
//a. add second node into next of last node
//b. move head on second node

tail. next = head. next head = head. next

T(n)=0(1)

Singly Circular Linked List - Delete last



```
//1. if list is empty
return;

//2. if list has single node
head = tail = null

//3. if list has multiple nodes
//a. traverse till second last node

//b. add first node into next of second last node
//c. move tail on second last node
```