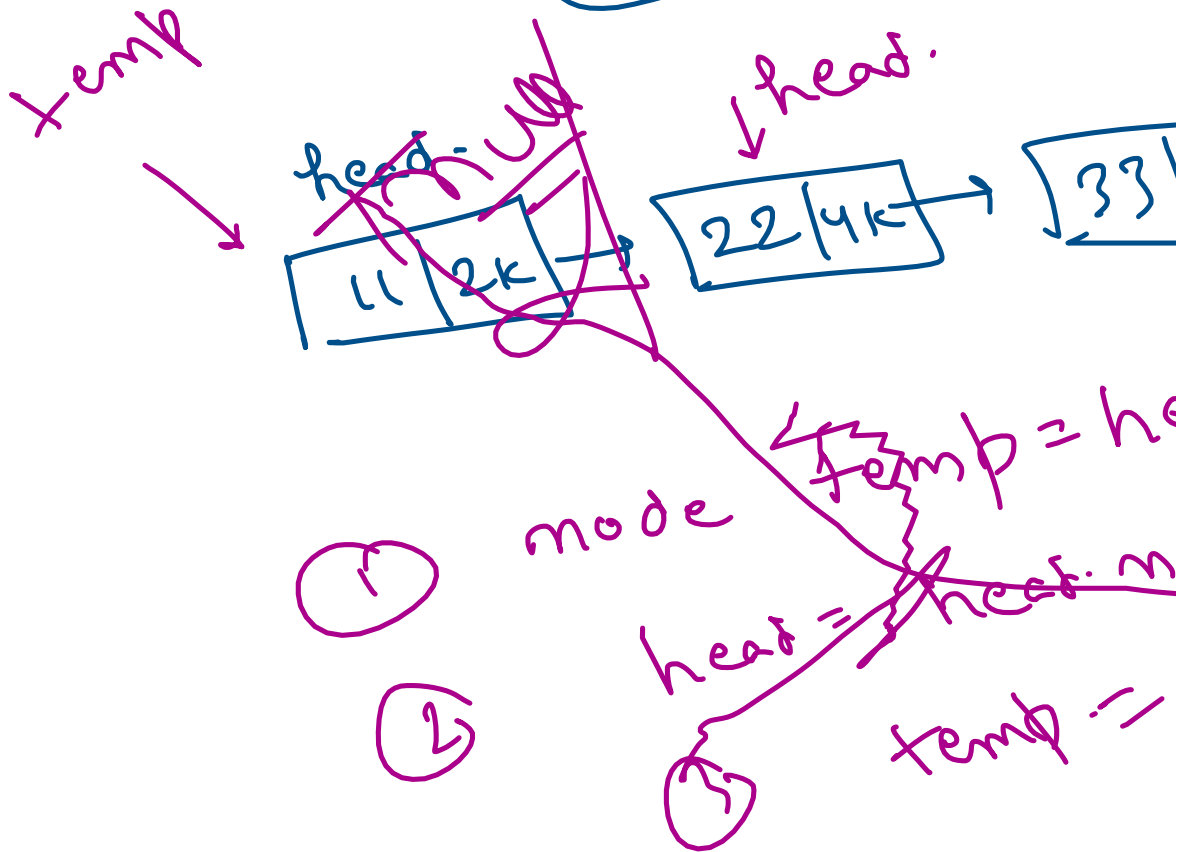


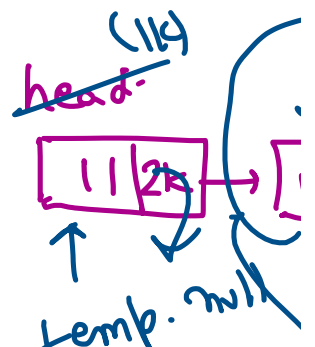
temp = null



```

public static node deletionAtHead(node head){
    if(head == null){
        System.out.println("Deleting an Empty Node");
        return null;
    }
    if(head.next == null){
        System.out.println("Deleting single node");
        return null;
    }
    node temp = head;
    head = head.next;
}

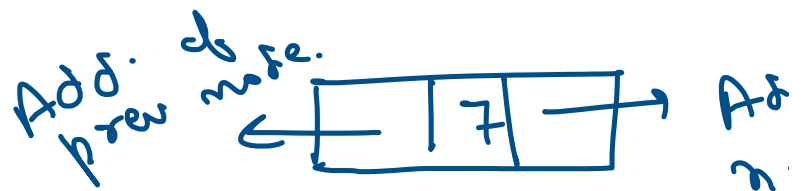
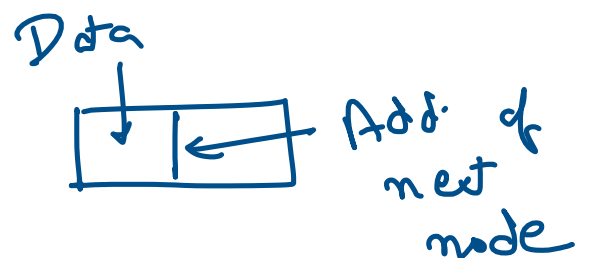
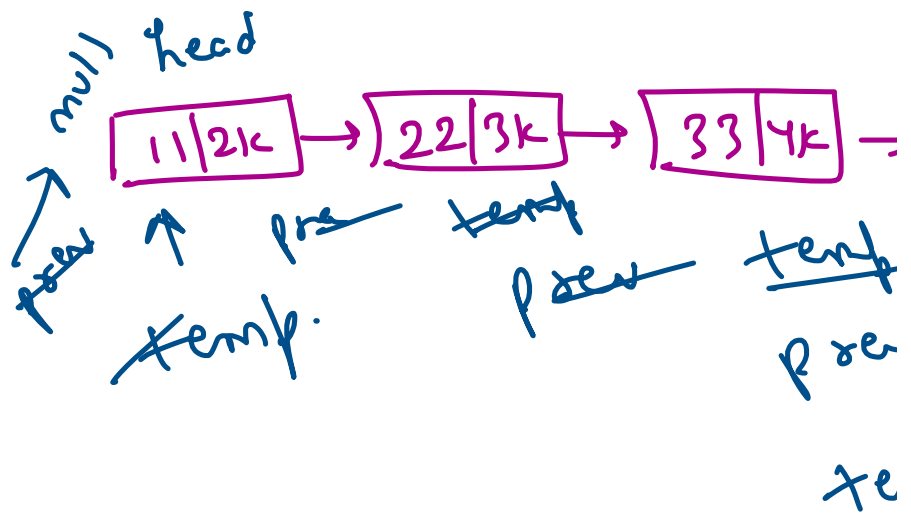
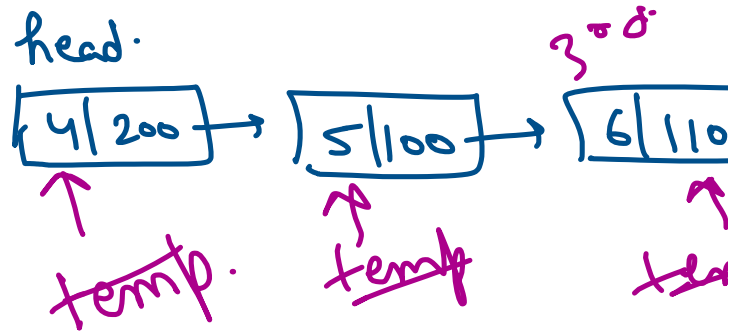
```

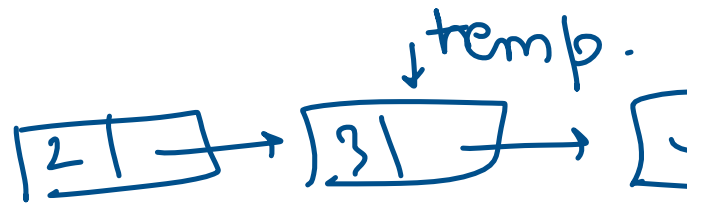


```

temp = null;
return head;
}

```





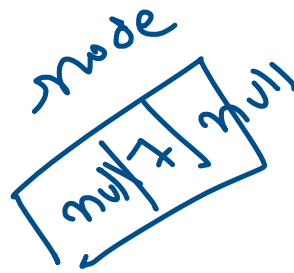
class node{

int data;
node next;
node prev;

node() {

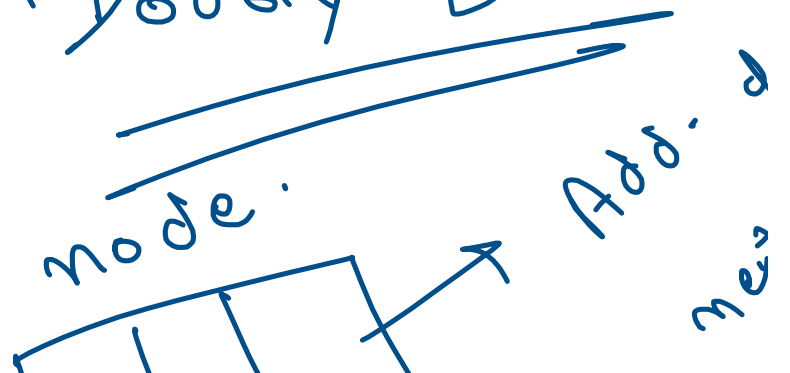
this->data = 0;
this->next = null;

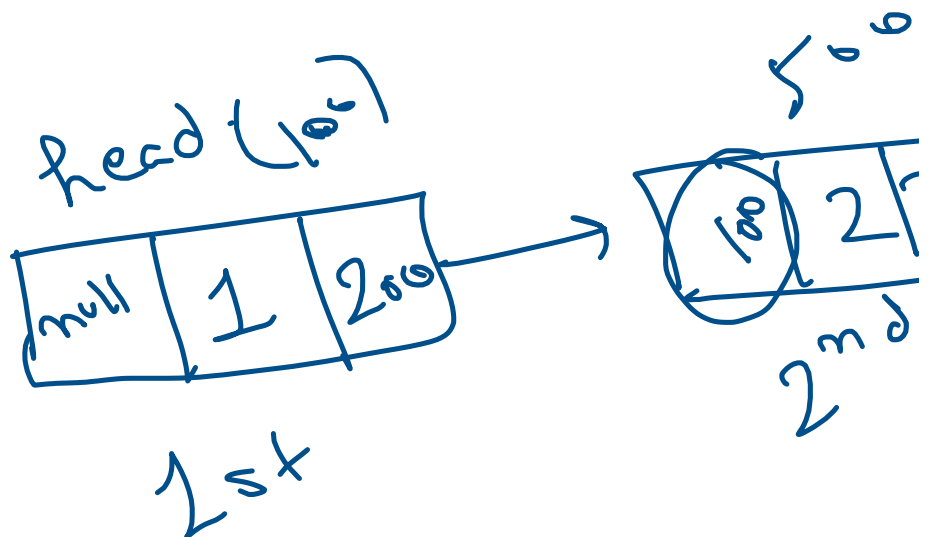
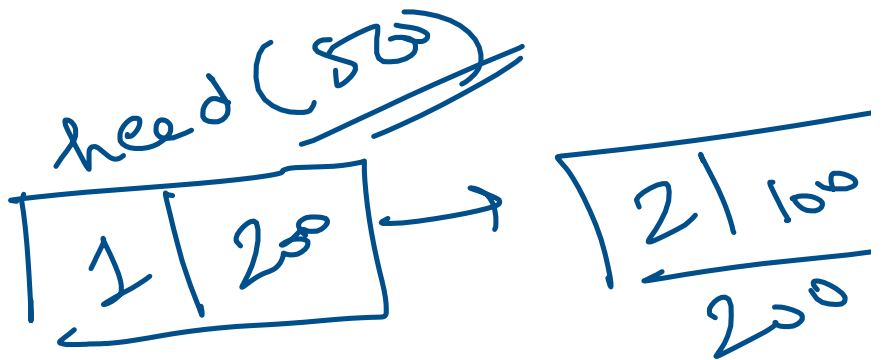
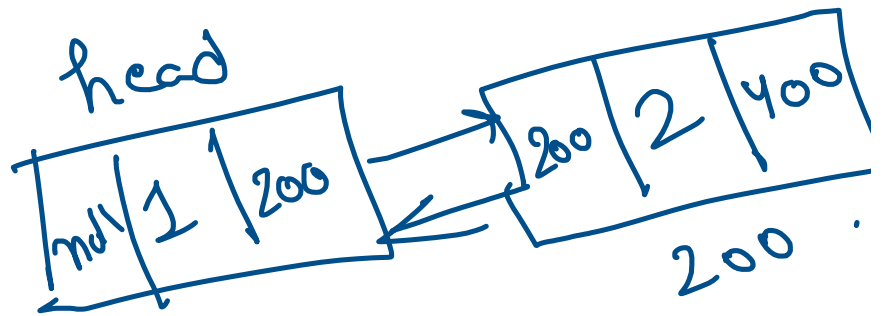
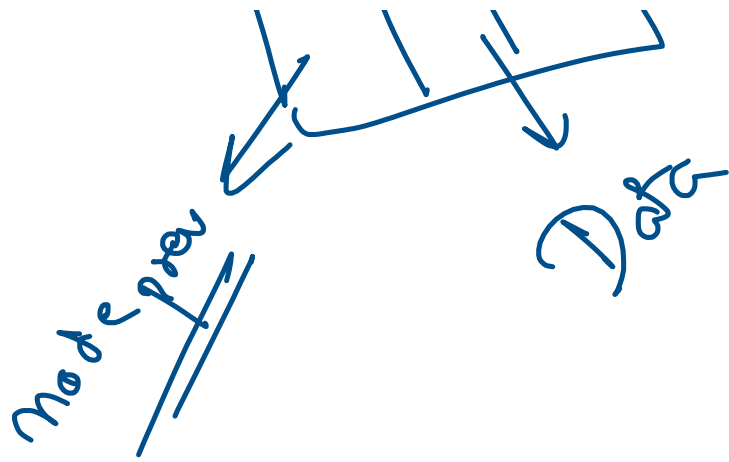
} this



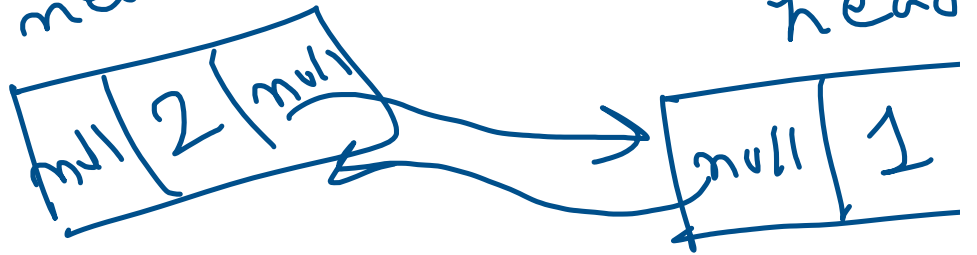
~

Doubly L.L





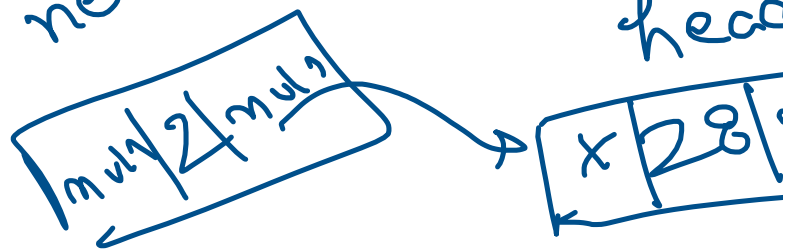
head
1
newnode



new node

1

newnode.



1

new node

2

nn.n

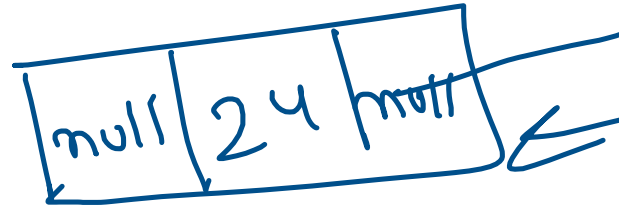
1 0 0

~

~

③

tail



①

new

②

tail

③

```
import java.util.*;
```

```
public class Main {
    static class node{
        int data;
        node next;
        node prev;
```

```
    node(int val){
        this.data = val;
        this.next = null;
        this.prev = null;
    }
}
```

```
public static node insertionAtHead(node head,int val){
    //task 1: new node create
    node newnode = new node(val);
    //task 2: new node ke next mein head daal do;
    newnode.next = head;
    //task 3: head ke prev mein newnode daal do;
    head.prev = newnode;
    //task 4: head update;
    head = newnode;
    return head;
}
```

```
public static node insertionAtTail(node tail,int val){
    node newnode = new node(val);

    tail.next = newnode;
    newnode.prev = tail;

    tail = newnode;
    return tail;
}
```

```
public static void traverse(node head){
    node temp = head;
    while(temp != null){
        System.out.print(temp.data + "->");
        temp = temp.next;
    }
}
```

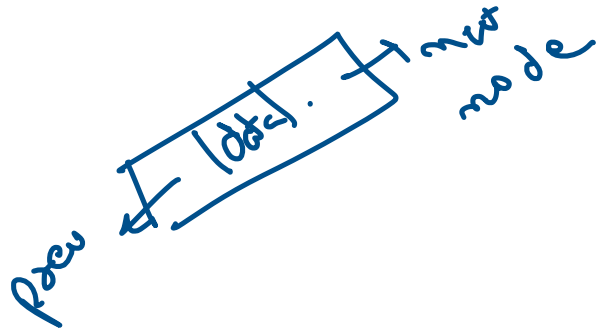
```
public static void main(String[] args) {
    node head = new node(12);
    node tail = head;

    head = insertionAtHead(head,11);
    head = insertionAtHead(head,11);
    head = insertionAtHead(head,11);
    head = insertionAtHead(head,11);
```

```
    traverse(head);
    System.out.println();
```

```
    tail = insertionAtTail(tail,14);
    tail = insertionAtTail(tail,14);
    tail = insertionAtTail(tail,14);
    tail = insertionAtTail(tail,14);
    tail = insertionAtTail(tail,14);
```

```
    traverse(head);
    System.out.println();
}
```



Stack

}
}

7

1

1

