

```

import java.util.*;

public class Main {

    static class node{
        int data;
        node next;

        //constructor

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

    public static node insertAtHead(node head,int val){
        node newnode = new node(val);
        newnode.next = head;
        head = newnode;

        return head;
    }

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

        tail.next = newnode;

        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 = insertAtHead(head,11);
        head = insertAtHead(head,10);
        head = insertAtHead(head,9);
        head = insertAtHead(head,8);

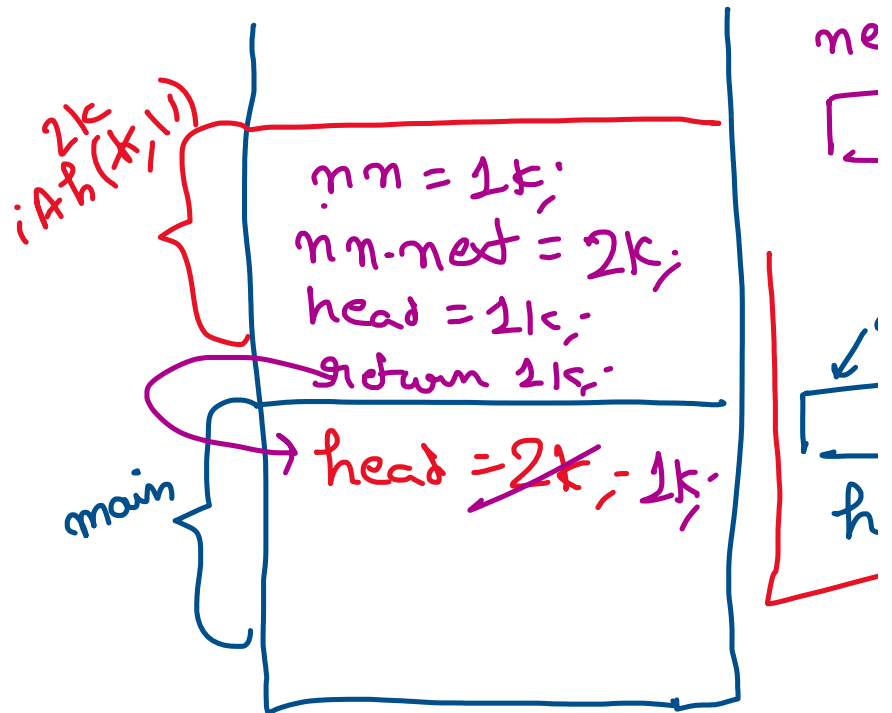
        traverse(head);
        System.out.println();

        tail = insertAtTail(tail,13);
        tail = insertAtTail(tail,14);
        tail = insertAtTail(tail,15);
        tail = insertAtTail(tail,16);
        tail = insertAtTail(tail,17);

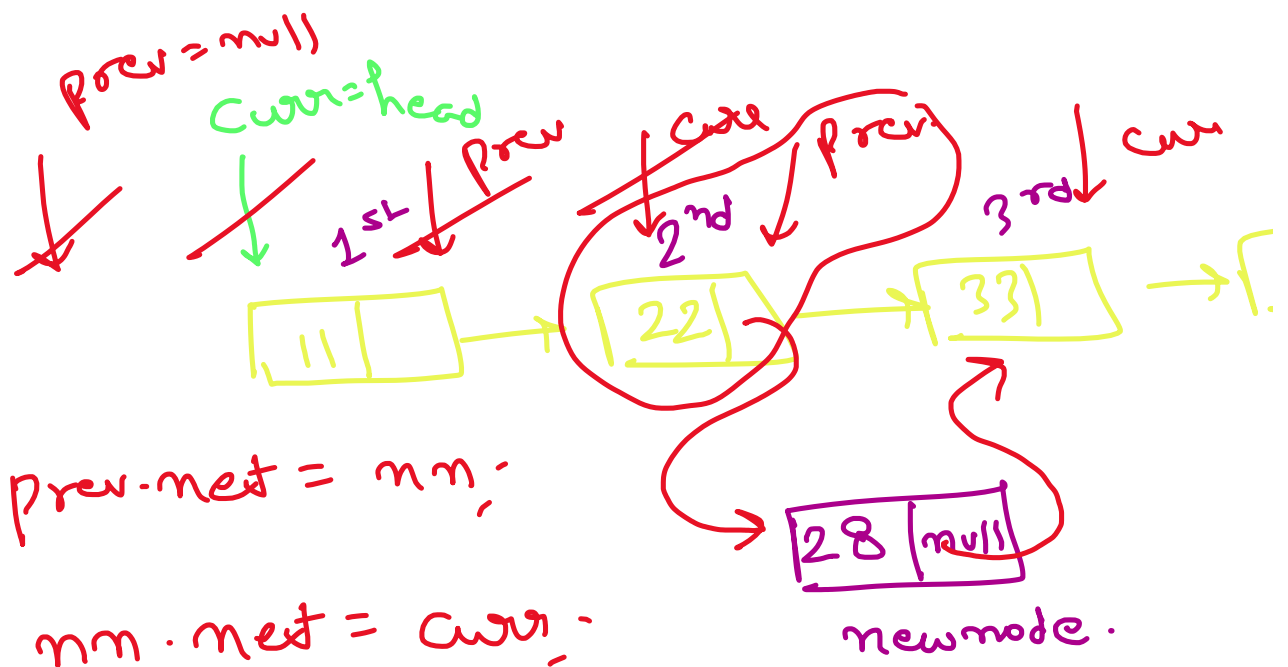
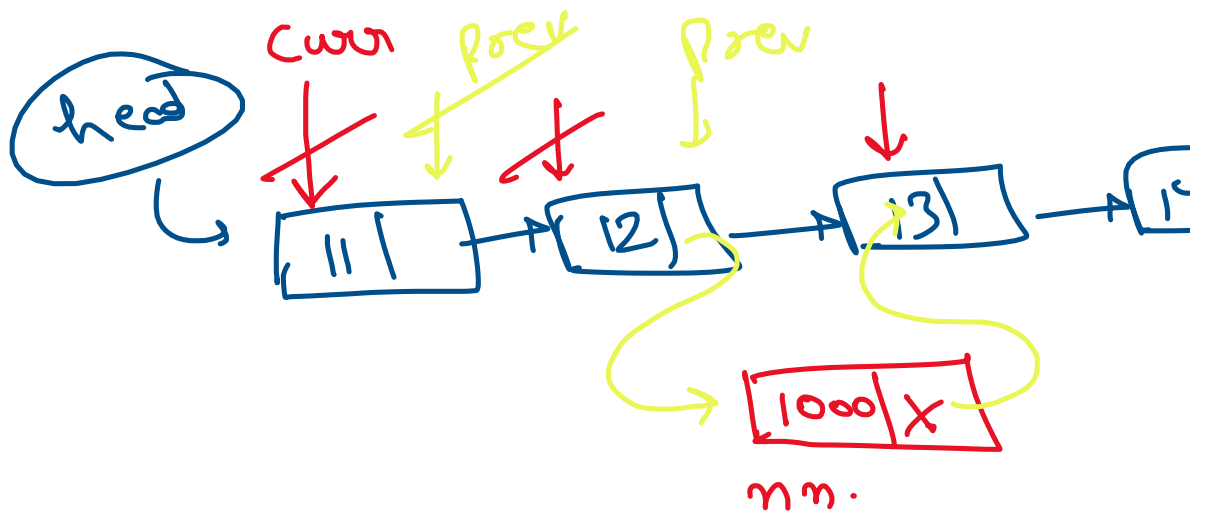
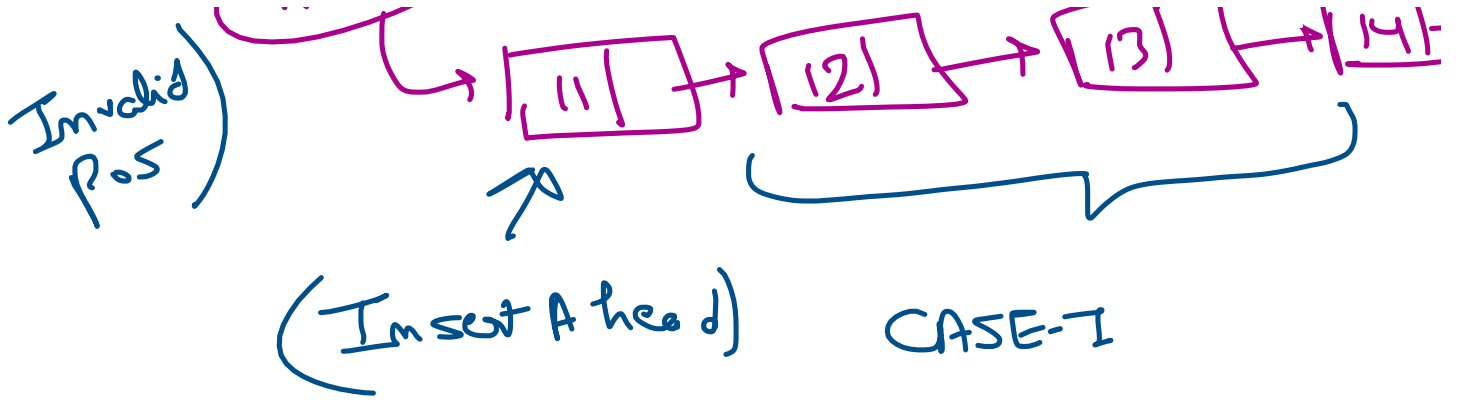
        traverse(head);
        System.out.println();

        insertAtAnyNode(head,3,1000);
    }
}

```



head



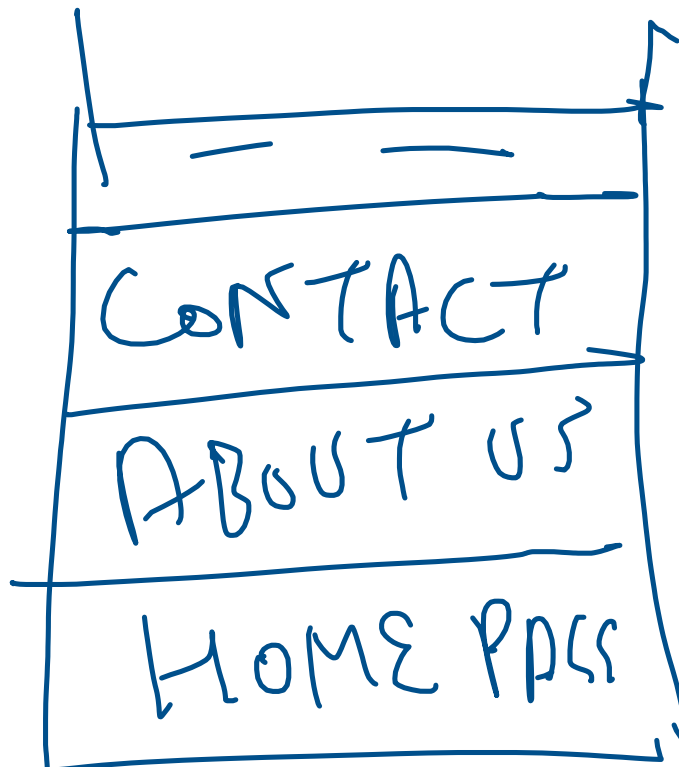
STACK

Linear D.S
LIFO order

Landing Page
↓

ABOUT US
↓

Contact



D.S
↓
LIFO

DS

Array



Linear



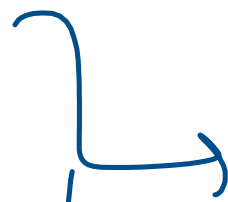
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D.S



Insert

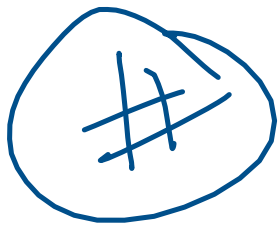
Delete

Traverse

✓ , 1 8 0 0 0

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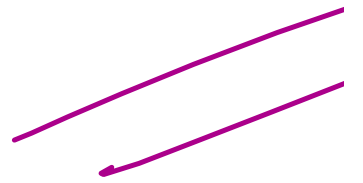


Stack <

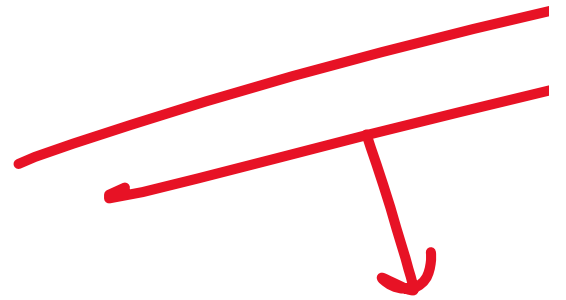
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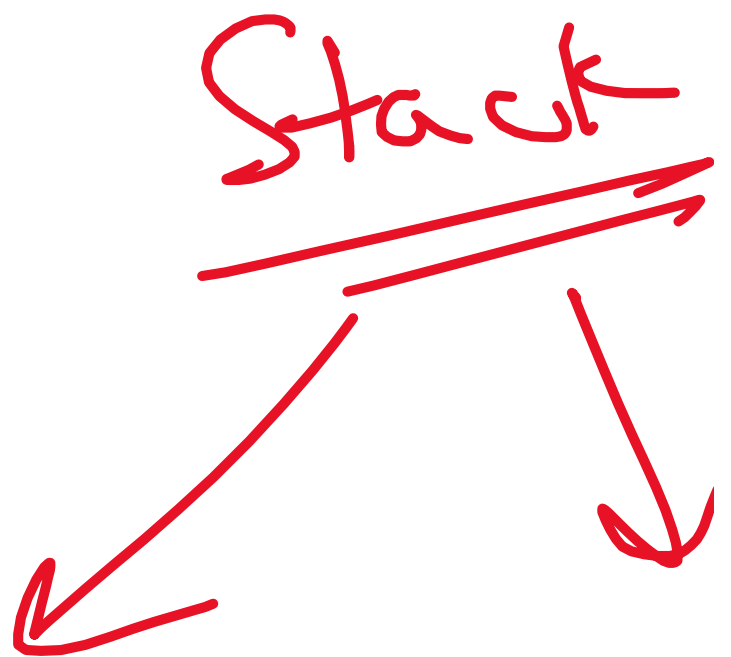
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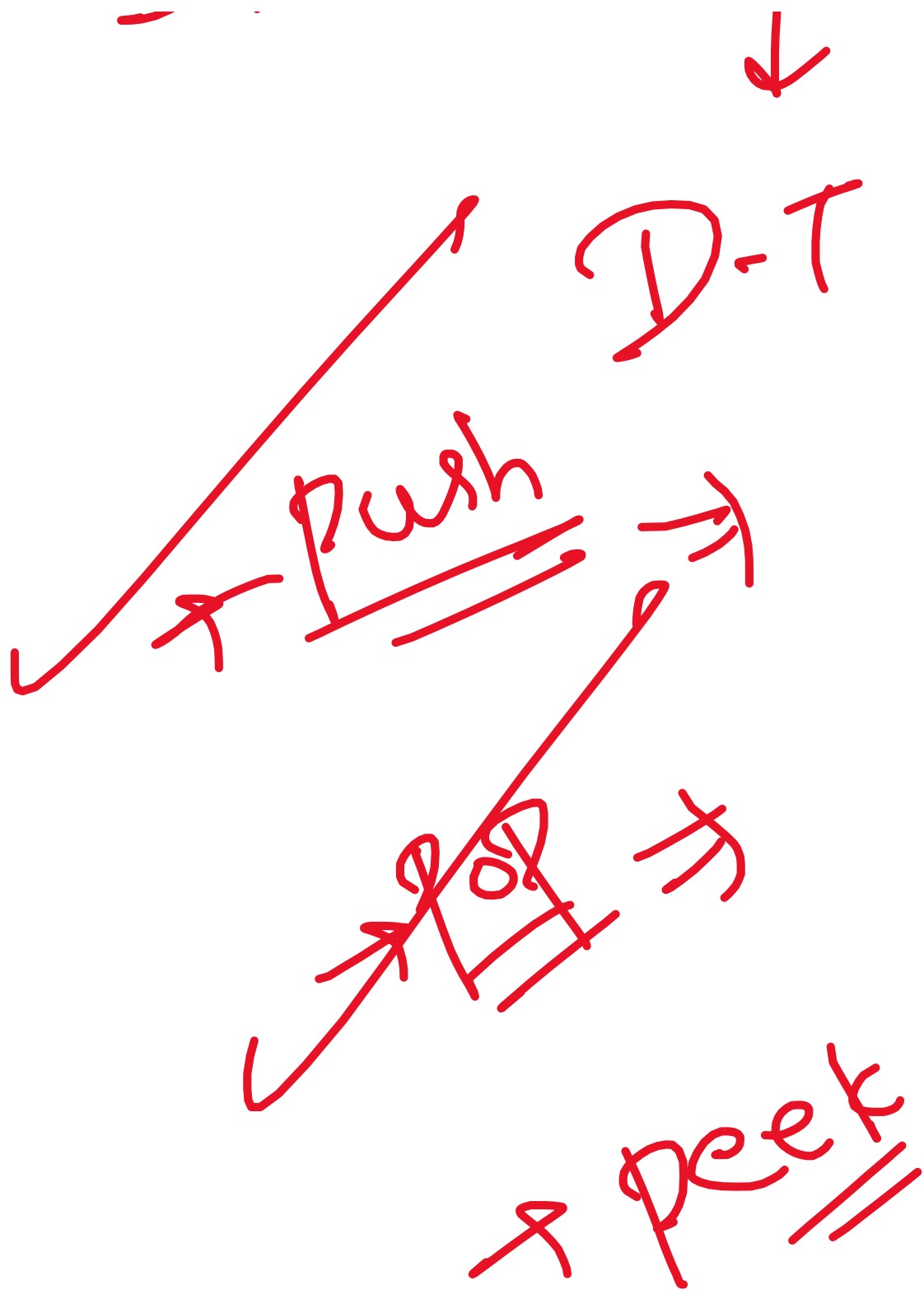
1 / 2 / 3

push/pop!



Array

Stack < , ' !



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↑ is empty

Stack < Integer

st.push(1);

st.push(2);

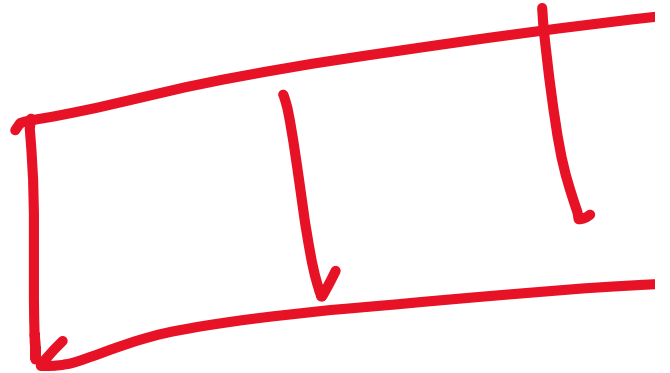
st.push(3);

st.push(4);

st.pop();

5 1 0 1

over



Class St

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