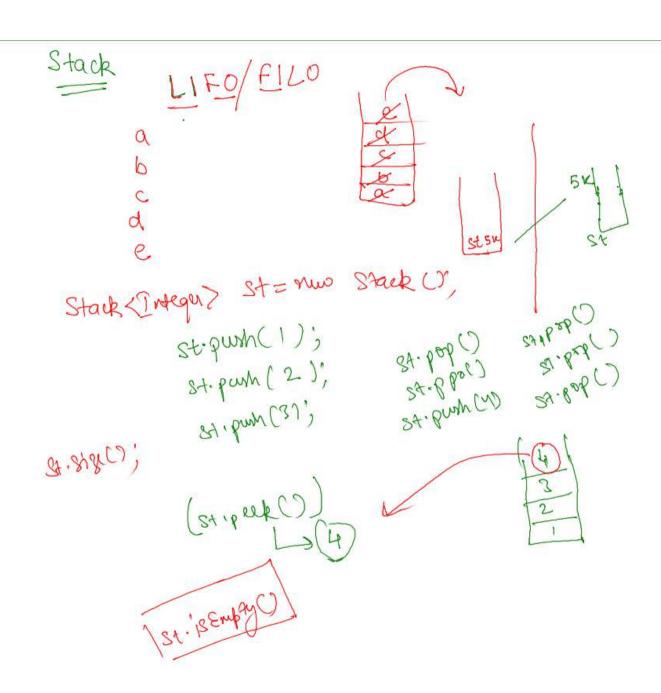
```
O(n+m)
public static ArrayList<Integer> merger(int[] arr1, int[] arr2){
   int i=0;
   int j=0;
   ArrayList<Integer> ans = new ArrayList<>();
   while(i<arr1.length && j<arr2.length){
       if(arr1[i]<arr2[j]){
           ans.add(arr1[i]);
           i++;
       }else{
           ans.add(arr2[j]);
           j++;
 while(i< arr1.length){
       ans.add(arr1[i]);
  while(j< arr2.length){
       ans.add(arr2[j]);
       j++;
   ArrayList<Integer> unique = new ArrayList<>();
   for(int k=0;k<ans.size();k++){
       if(!unique.contains(ans.get(k))){
           unique.add(ans.get(k));
   return unique;
```



n=10

```
O L
public static void main(String[] args) {
                                            10 🗸
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    Stack<Integer> st = new Stack<>();
    for(int i=0;i<n;i++){
        int val = scn.nextInt();
       if(val ==1){
            System.out.println(st.size());
        }else if(val==2){
                                            1 V
           if(st.size()>0){
              st.pop();
                                                                             St
           }else{
                System.out.println("-1");
       }else if(val==3){
            int x = scn.nextInt();
           st.push(x);
       }else{
            if(st.size()>0){
               System.out.println(st.peek());
            }else{
                System.out.println("-1");
    /* Enter your code here. Read input from STDIN. Print outpu
```

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```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();

    Stack<Character> st = new Stack<>();

    int i =0;
    while(i<str.length()){
        st.push(str.charAt(i));
        i++;
    }

    while(st.size()>0){
        System.out.print(st.pop());
    }

/* Enter your code here. Read input from STDIN. Print outpu
```

```
ArrayList<Integer> arr;
public Solution(){
    arr = new ArrayList<>();
public void push(int x){
    arr.add(x);
public void pop(){
    if(arr.size()>0){
        arr.remove(stack.size()-1);
public void size(){
    System.out.println(arr.size());
public void display(){
    for(int i=0;i<arr.size();i++){
        System.out.print(arr.get(i)+" ");
    System.out.println();
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    Solution stack = new Solution();
    int i =1;
   while(i<=n){
        String str = scn.next();
        if(str.equals("push")){
            int x = Integer.parseInt(scn.next());
            stack.push(x);
        }else if(str.equals("pop")){
            stack.pop();
        }else if(str.equals("display")){
            stack.display();
        }else{
            stack.size();
        i++;
    /* Enter your code here. Read input from STDIN. Print output to
```