

wher of occupies
The stack position
for deleting
out the element out the element top of the automatically. As stack illustration given the Ordered list of element Top all Bottom element d slack

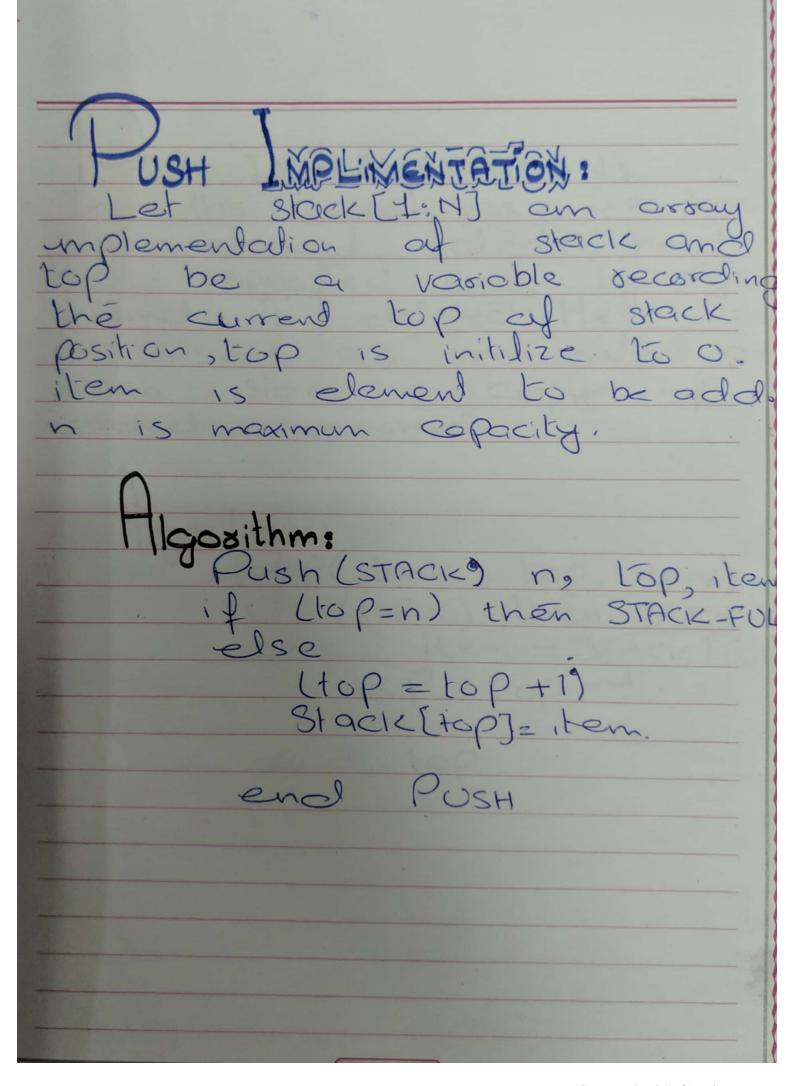
point should be in mind while kept this phenominum the insertion essenticu principle inserted into

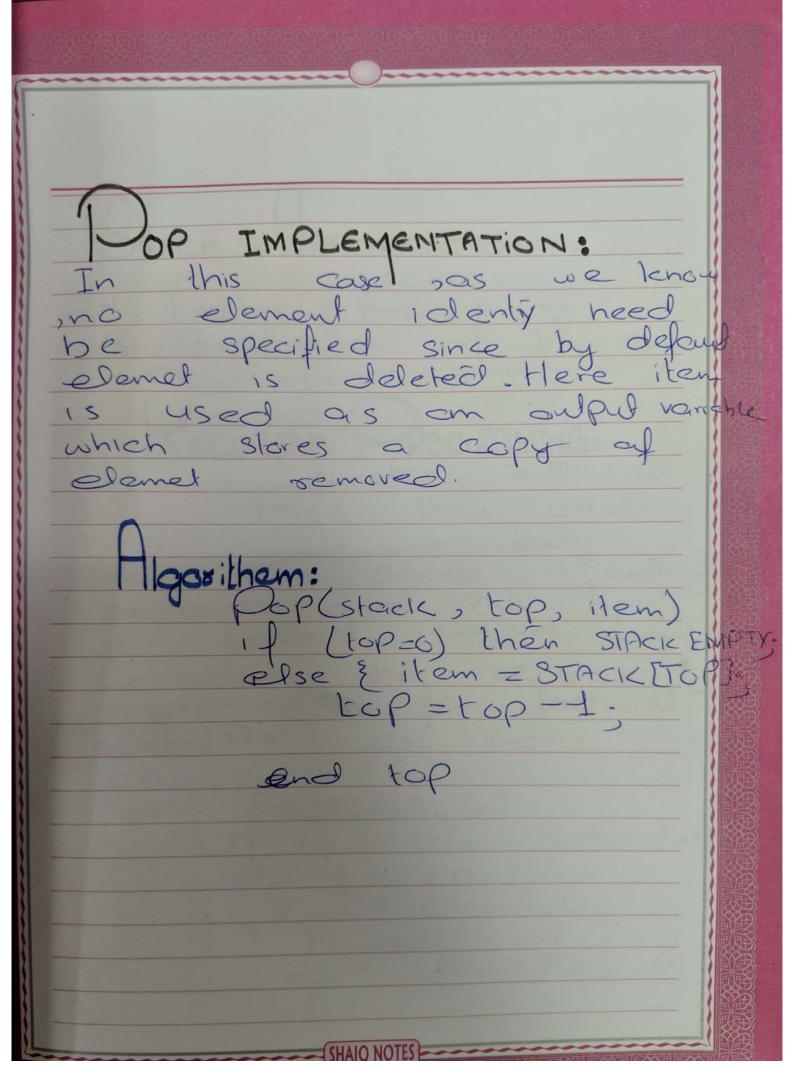
join last and that joined last are the jirst to be removed STACK OPERATION: i Dush: Insertion of elements -ii Dop. Deletion of elements. MPLEMENTATION: A common basic method of implimentation is to make use Implimentation is to make a of the orther fundamental double structure "Assays" while assays are siquential took structures the other of nploying linked double struct Bive been successfully attempeted and applied.
The fig shows an amplimenta base implimentation & dack Considering stacks are - Chock

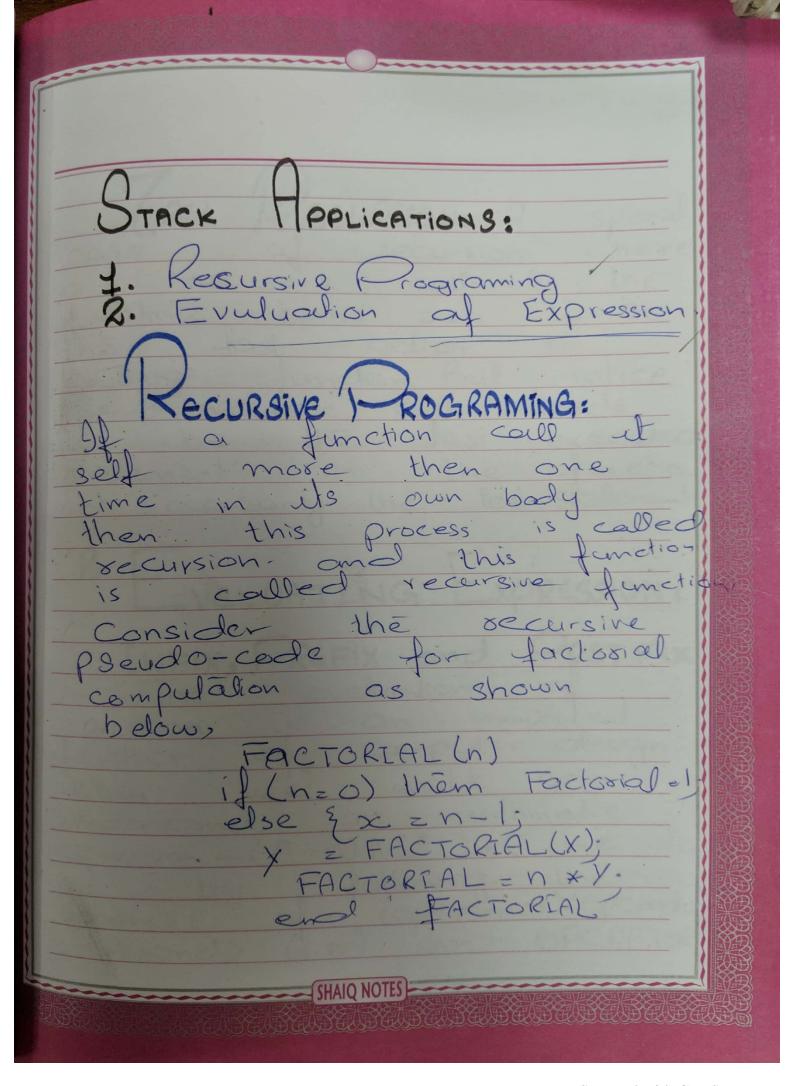
ordered list or dimentionally which despi o arrays which concertiona structure are inheretentle associated with a one-a dimentional set of memory Jacovion. Top of stack Top of Bottom at Stack Stack ig shows a Stack of ents Ros, VoG represente array stack. [1:7]: stack is represent

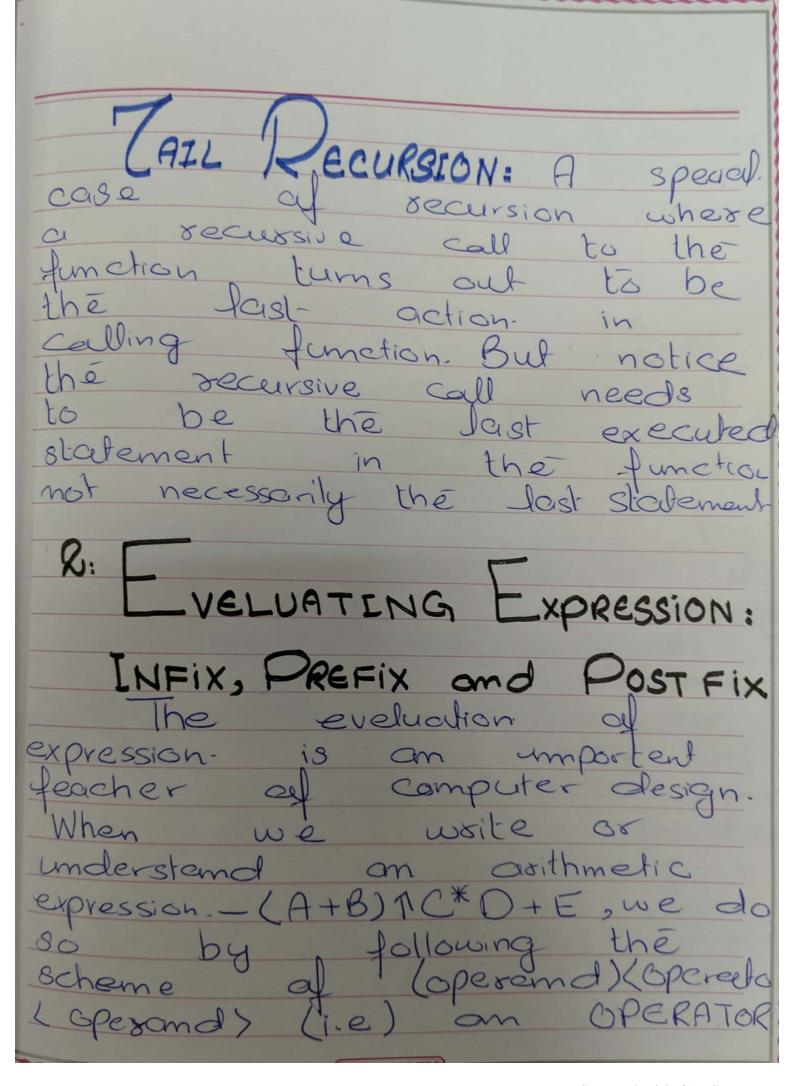
as array stack[1:n] then
n elements com be store in it no more than n could be. So there is essential to issue a signa termed as STACK-FULL when element whose number is over and above n are attempted to be push unto the stack.

while during a pap operation, essentially ensure that one doesnot delet on emply stack. Hence the necessity for a werning termed as stack is empty "Stack-Epty]. While implemental recessitates cheecking for stack-Full / stack-Empty conditions respectively, the implementation of steick with linked structure dispenses with these testing conditions









is procedured and succee by an Experend >. Such expression is termed INFIX EXPRESION. It alveady known how infix expression is used in progreming, It Hierarcy, Precedence cassociculivity to ensure that misinterprete the doesnot but compute its expression value in a unique way Actually a computer infix expression on reworks to produce em equivilent expression which follow the scheme of coperand> coperand Coperatory (chown as postfix. I third one catagory is follows the one which 8cheme of Loperator > Coperand and it is Coperador). Predix expression. Known as

```
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                                                     { item=stk[top];
 importjava.util.*;
 class stack
                                                     top--;
                                                     System.out.println("item = "+item);
intstk[]=new int [4];
inttop, item;
                                                     }}}
Scanner in=new Scanner(System.in):
                                                     classapstack
stack()
                                                     public static void main(String arg [])
top=-1;
                                                     { intch;
                                                     stack s=new stack();
void push ()
                                                     Scanner in=new Scanner(System.in);
                                                    do
if (top==3)
System.out.println("Stack is full");
                                                    System.out.print("Enter the 1 to push and 2 to
                                                    pop = ");
else
                                                    ch=in.nextInt();
{ top++;
                                                    switch (ch)
System.out.print("Enter the number = ");
                                                    { case 1:
item=in.nextInt();
                                                    s.push();
stk[top]=item;
                                                    break;
void pop ()
                                                    case 2:
                                                    s.pop();
if (top==-1)
                                                    break;
System.out.println("Stack is empty");
                                                    default:
                                                    System.out.print("wrong");}
else
       5 ystem out print ("Enter the O to exit & any No to continue = ");
               ch = in next Int();
                while (ch! = 0);
```