## Autumn - 18

## And Ho the ovues No-115 state (d

D) The logical and mathmatical model of a particular organization of data in called a data structure.

difference between Data and information

Data Data Mollonor

Set of values on Data with attnibutes

2) data in the indivined 2) Information is individual offiques, number processed data.

On graphs

- b) There are Three types of Control structure ) Secretarial Flow: Unless to instruction are given to the contrary, the modules are executed in the obvious secretarion.
- 2) Selection logic. Sedection logic employes a number of condition which leads to a relection of one out several alternative modules
- 3) Phenation logic: Phenation logic starts with a Repeat statement and is followed by a module.

Am to the ornestion No 260 a) Disadvantages of linear armay 1) Annertion, deletation are costly in arrays as elements are storted in contiguous SMOUDIN- UBA) ) DIVID = JUM +09 (NI 11) Size of the declared armay in more than the neguined size then, it can lead to moment wastage b) Binary Search Step D Set BEG = 11; END = 99, MID = INT (BEG+) 11) Repeat step (111) and (iv) while BEGILENI and DATA [END] DATA [MID] & ITEM

11) It ITEM < DATA [MID] then: Bet END = MID-1 Clouds in the Elbe 3000 rocket Joh. miles into 6 CHOUGH ron Set BEG = MIPHI IN) Set MID = INT (BEG+END) /2) y) If DATA [MID] = Item then Set LOC = MID Else, Bet LOC = NULL Exity recently in the way to 1989 Million (Mill) brow (Mill) aster theory of (11 MET + [ann) mad remained with

1) A multidimentional armay is an armay with more than one level on dimention.

A (-5:5, 3:33) 2 dimention among length

Li = 5-(-5)+1 1+01-09 = 0-1

11. 12= 33-3+11. 10 mintions a

And 050 = 31

A annay length 11, 31

A Contains 10 61. 62 = 11.31

Ish to betieve ad mar 170341 clements.

B(3:10, 1:15, 10:20) 3 dimentional armay

is no all holds a good in the word in the second in the se

 $L_{1} = 10 - 3 + 1 \text{ longity constraints A } 0$   $L_{2} = 15 - 1 + 1 \text{ (co. 10)} \text{ and some } 0$  = 15  $L_{3} = 20 - 10 + 1 \text{ (co. 10)} \text{ (co. 10)}$  = 11

B Contains @ L.: L2. L3 = 8.15.11

Ano to the orner No-3

A Stack is a list of elements in which ar element may be inserted on deleted only at one end, called the the to of the stack. The backs arrociated with Stacks i) Push Insert element 1) pop a ladelete an element i) Push Insert element 1) pop a ladelete an element

D'Lett' procedure per used to insert an element at the top of the stock. Basically axis function belong to Letack > Reader file.

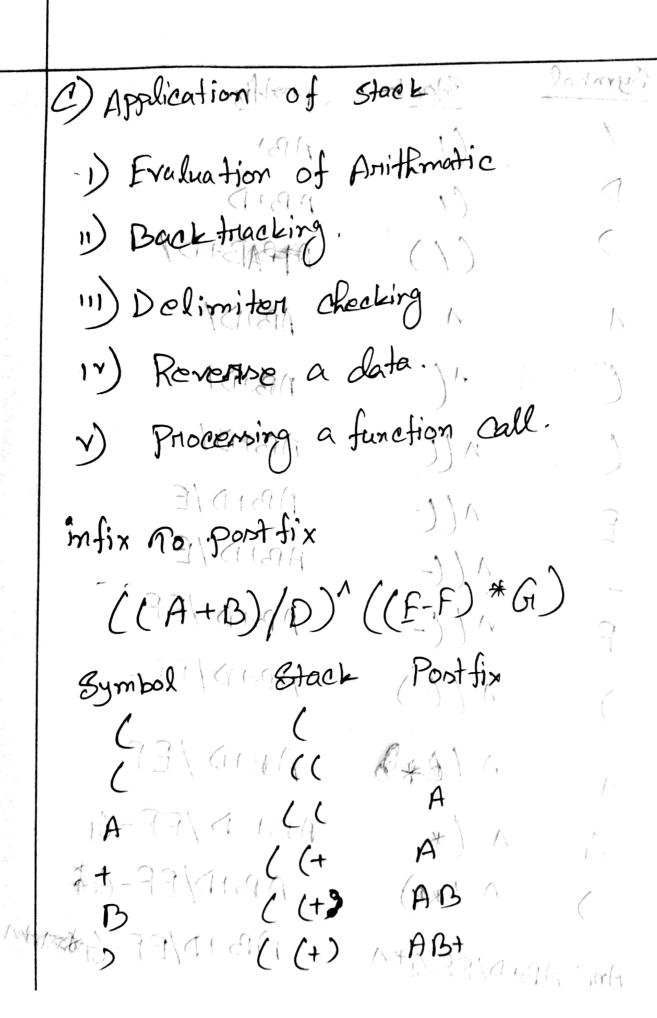
The element air added to the stack contains and the size of the stack is so increased by I

Right priocedure pin used to sop on Hemoved an element from the to of the Glack Contained. The content from the top in nemoved and the size of the container medical by 1.

to make model with the similar more of the reci

1:907, 907, for Kg

U) REPERM



Symbol	Stack	- Portfix oil aside M
	sill million	AB+
D .	<u>C</u> 1	A B+ 1)
<b>&gt;</b>	(1)	ATPAB+DA
1	1 Bridge	ABADYILA (III
	of stab	ABADNOS ("
	on Witeway	AB+DIOIT (V
F	۸((·	AB+D/E
	1/1-	AB+D/E
- ( )	1 ((-1)) <sup>(</sup>	ABOD/EF)
	1 (-)	OF ABID/EETING
+	^ (B+9)	AB+D/EF
	۱ (*	AB+ D/EF-G
	n (*9)	AB+D/EF-G*
	OVER-GIA	AB+D/EF-GIODAN

## Ans to the over No-4

a) Big O notation is a mathematical notation

Hat describe the limitation limiting behaviour

of a function when the argument tond toward

a particular value.

Best case: - the combination of input data for which the complexity fm) minimum.

World Case! The combination of input data for which the complexity f (n) maximum.

for which the complexity f(n) is not amaximum.

And not minimum.