

They are stored in 1A | B| D| | Purk order (or) prevident -> It can be implemented using assay and linked list both. - led nodes are the terminal nodes having no children. Level - Each tree is leveled i.e. groot node is 0 than its children 1

Securities of specific condition is met. I met. Section B

Tower of Itanoi is a fun task to place all disks from some to destination using space. It has 2 studes:

O Only I disk at a time can be moved.

O No bigger disk can be placed on top of smaller disk.

Share Space Destination

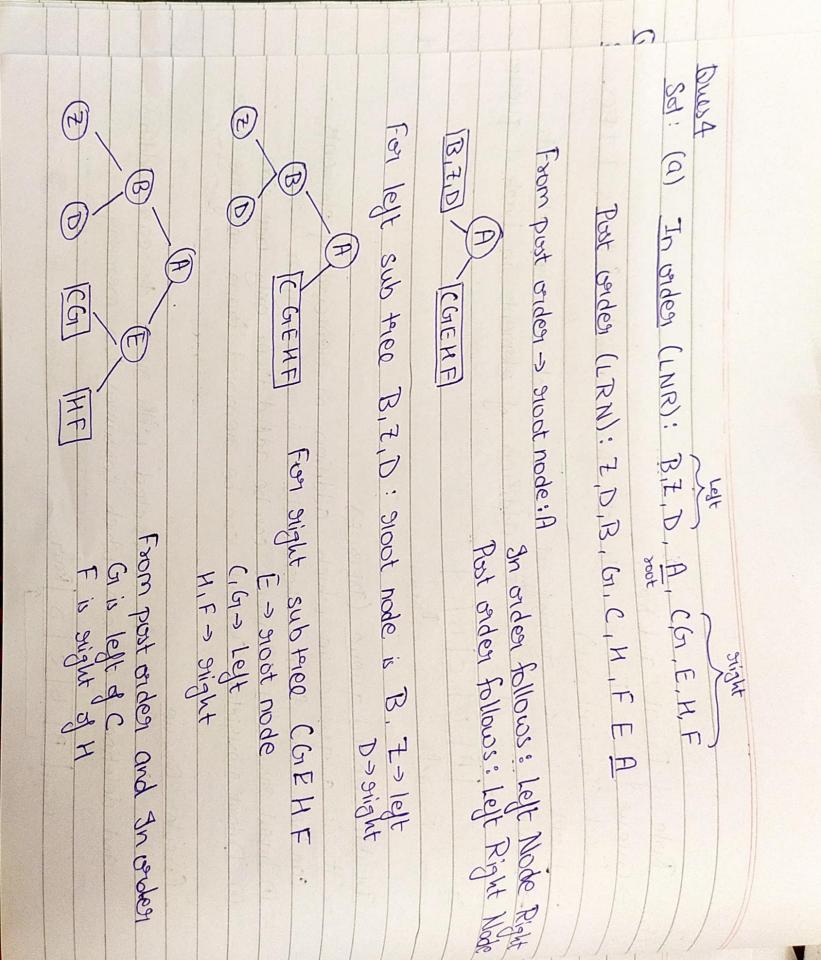
Alagorishm

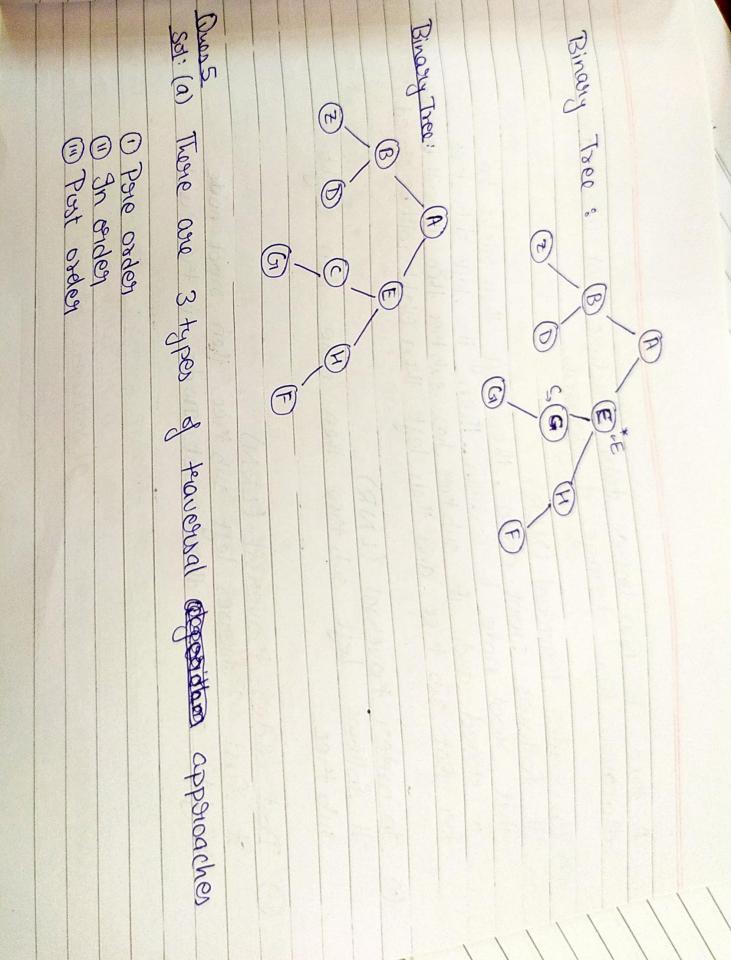
1) Give no to all disks (1,2,....n)

Repeating step (1) & (11) until all disks are moved from sowne to destination. Move disk from spane to destination (I from spare to destination)

(1) End & program

Sol (b) Pole of Facrost and Resolu - Track is the strating of queue which premoves elements - Reas is presponsible for addition of elements in back of queue - It is a queue in which addition as siemoval of elements 1 Dutput ment-licted: Element can be memoued from only one side O'Input Steat inched Elements can be added from only one side. Double - ended queue (DEGUE) - when the front is connected with steam to cave addition (Last In Find Out) and deletion of elements which consumes less memory. Front A B C D ROOM P B C B is a linear data structure which follows LIFO.





H type is non-linear data structure that uses memory allocation for storage of elements

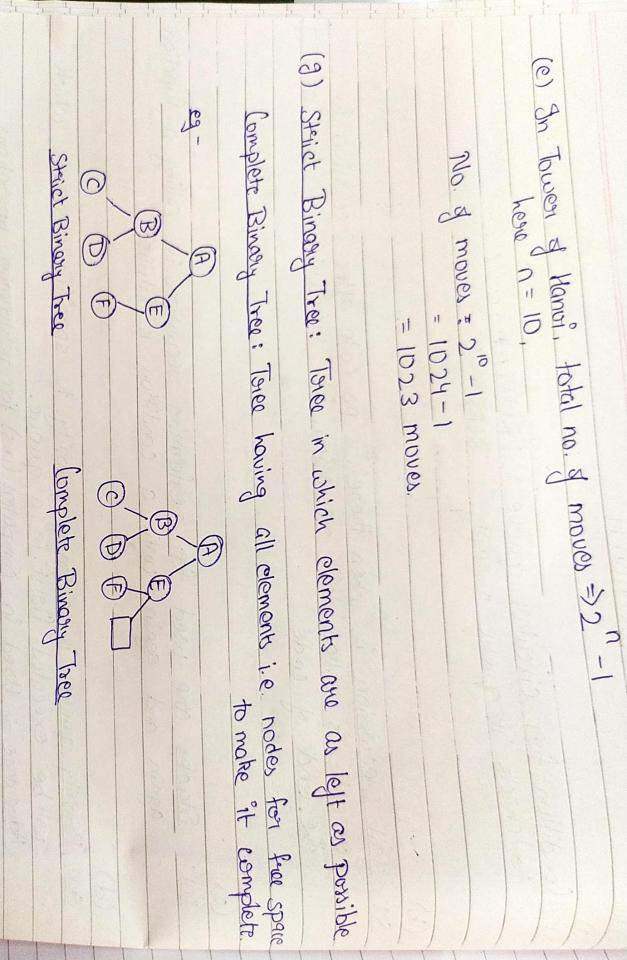
1) Pre Grider tequerual (NLR) At follows shoot node is written then left than stight i.e. first shoot node is written then its left sub-tree node is stored and it subtree has subtree then it will be node too that sub tree and then left then sight will be stored

1 In order traversal (LNR) It follows left subtree then node then slight sub tree

(iii) Post order traversal (LRN) It fixt teavernes left subtree than supertonade

(a) Condition for circulary queue: FRONT =0 Land execute is called tail siecusion, i.e. siecusion is done at 图: sd: Privilly queue is axigning privately to specific elements which will be executed figust in a queue.

Advantage -> Used in computers lo.s) for performing apenations Stacks are used for performing securitions i.e. calling a function again and again until a condition is fulfilled. Section A



Binary Search Trees are easy to tequeruse and can be stored easily as compared to binary trees. They are traversed by Inorder, Preorder and Post order. (i) Applications of terce(a) Used for traversal of elements (a) Wed 10.

(b) Storage of elements

(c) Easier suppresentation of data.

(d) Evaluation of Infix | Parefix