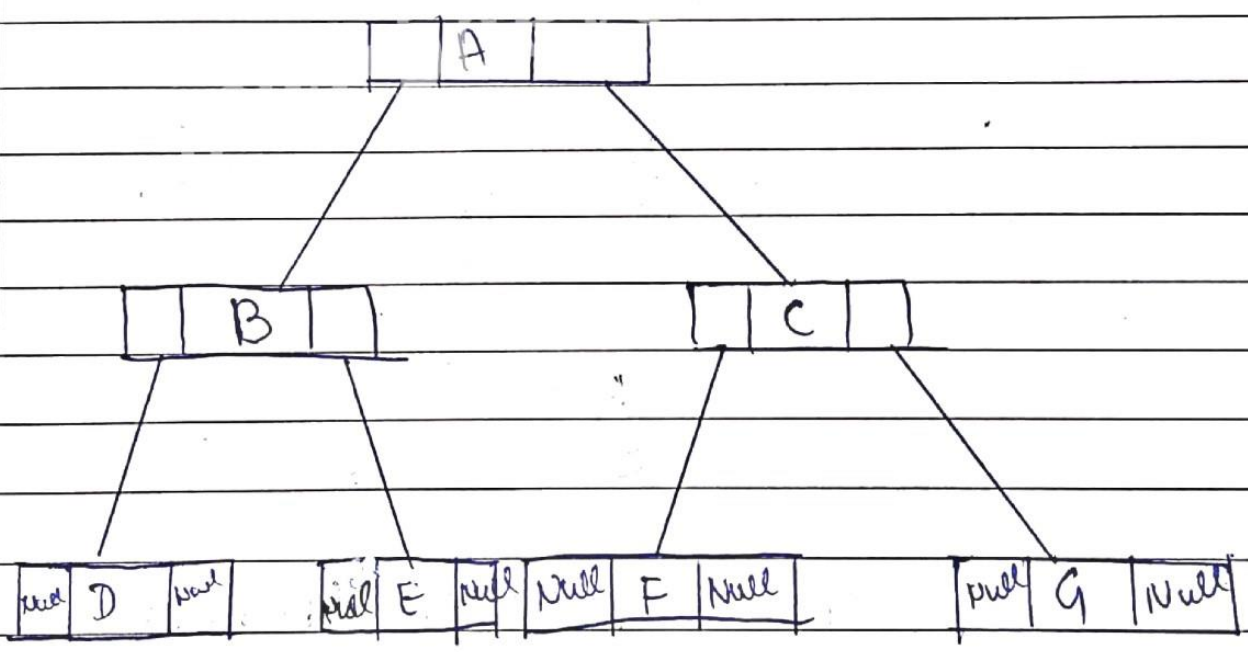


* Threaded Binary Trees :-

=====

- A binary tree is made threaded by making all right child pointers that would normally by NULL point to the inorder successor of the node.
- Store meaningful information in these NULL pointers.
- Eliminate use of stack and Queue for traversal.



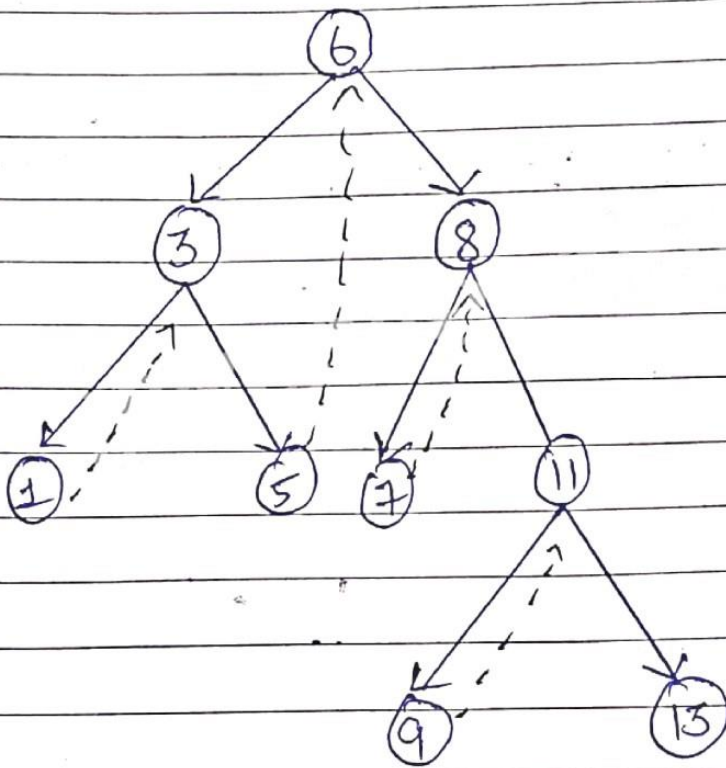
(Threaded Binary Tree)

Types of Threaded Binary Tree :-

(i) One way threaded Binary Tree

(ii) Two-way " " " "

(i) One-way threaded Binary Tree :-

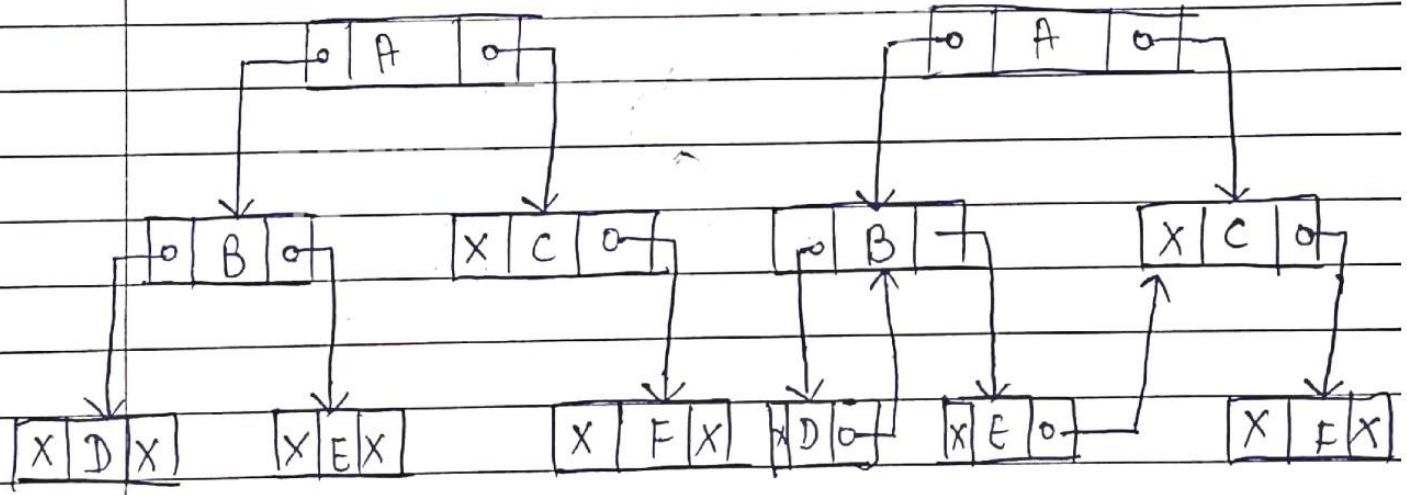


(Single Threaded Binary Tree)

o In one-way threaded binary tree, a thread will appear either in the right or left link field of node-

◦ Right thread binary tree' - If it appears on the right link field of node then it will point to the next node that will appear on performing in order Traversal.

◦ left threaded binary tree' - If thread appears in the left field of a node then it will point to the node inorder predecessor.

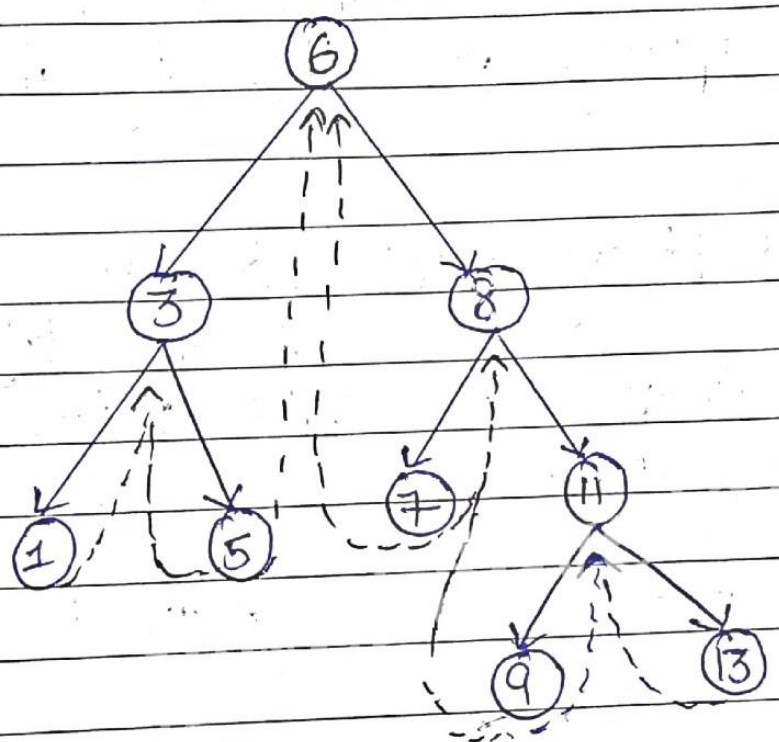


(A binary tree)

(A right threaded binary tree)

Inorder traversal :
(D, B, E, A, C, F)

Two-way threaded Binary Tree :-



Double Thread Binary Tree