

Making a tree using pre-order & In-order.

Given:- Pre-order

A B C D F E

In Order

B D C A E F

→ used for taking roots

→ used for analysing the child nodes.

Solⁿ:- As we know that the left most node in the pre-order will be our Root or the origination of the tree.
So,



A ke child dekhne ke liye inorder dekhenge.
A ke Left main jo nodes hain woh left child hongye aur right main jo nodes hain woh right child hongye

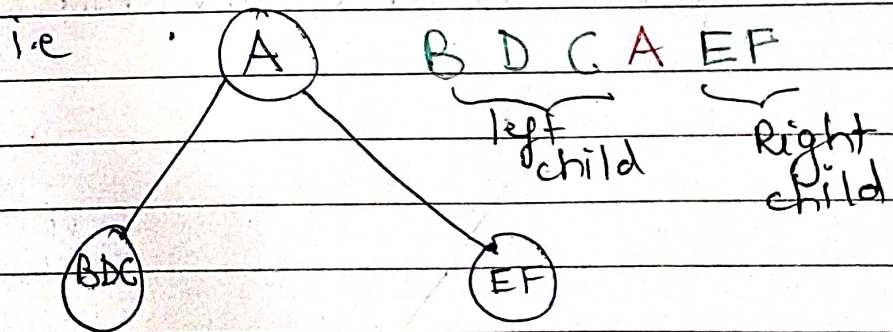
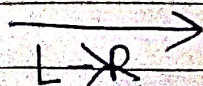


Abb ham subtrees ke roots dekhenge via pre-order

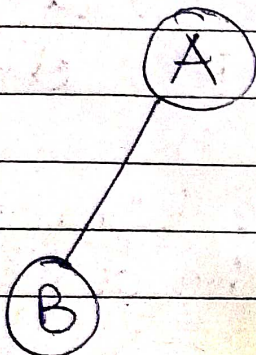
A B C D F E (Pre-order)



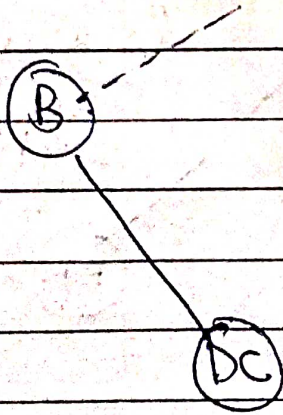
left to right move karne par hame pata

chala kii hamaara next ~~chala~~ root B haiin
aur B, A ke left main haiin ye same
inorder se pata chala

(B) D C (A) E F
left



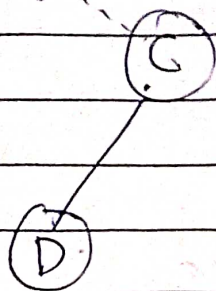
fir hamne B ke child dekhe inorder main
jo kii D or C the woh bhi right main



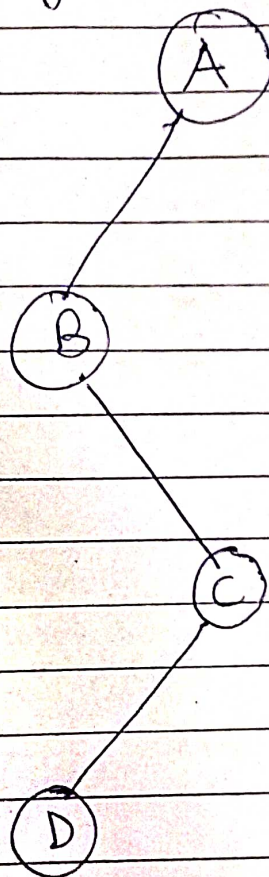
Fir hamne agla root dekha preorder main
joki C hai.

Aur ke child dekhe inorder main joki

D hain left main

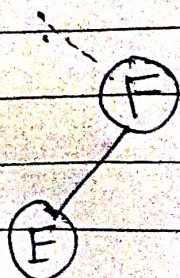


Hamara left part complete hogya tree kaa



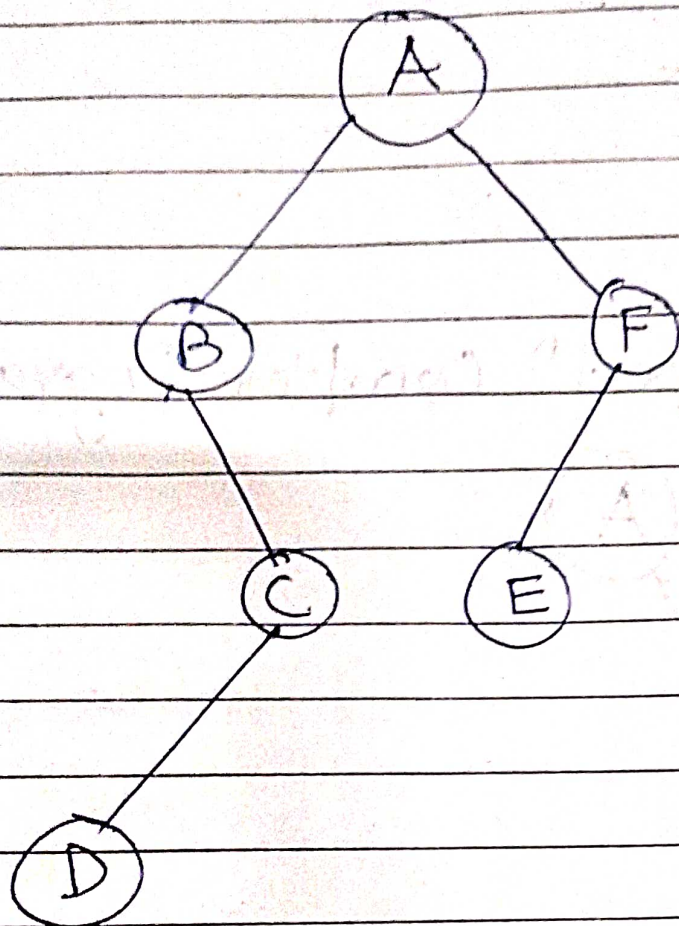
Issi tarah se ab agla root F hoga jab ham ABCDEE (pre-order) main dekhenge

Aur F ka child ek hee hain E joki uske left main hain (B D C A E (F))



left

Hence Full tree will be



Summary:-

Roots pata lagaane ke liye ham
Pre-order dekhenge.

Aur

Childs pata lagaane ke liye (aur woh
left hain ya fir right child) ham
In-order dekhenge.

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