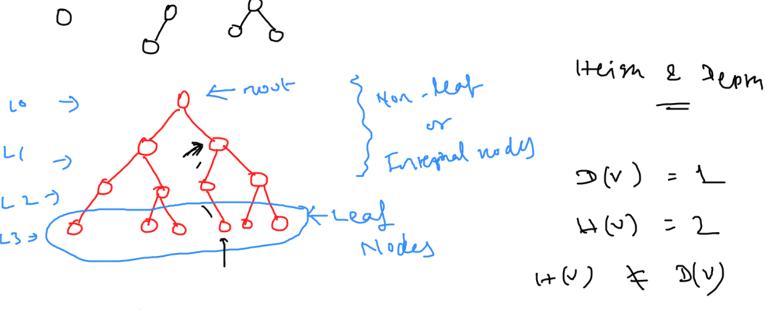
Tree Parent Unild Hierarchy. -) man I wild node Unary Binary > man 2 wild well man 3 wild words Ternary n-any > non n wild roles

Binary True



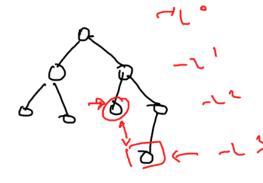
Leight of pays (no. of edges) from his west to the given

Length of Bakh (no. of edgy) of me given node from me deepert node.

Height (root) = Height (True)

Depm (Delper was = Depm (True)

[Height (True) = Deptn (True)



0 (H(T) = 0 (kno)

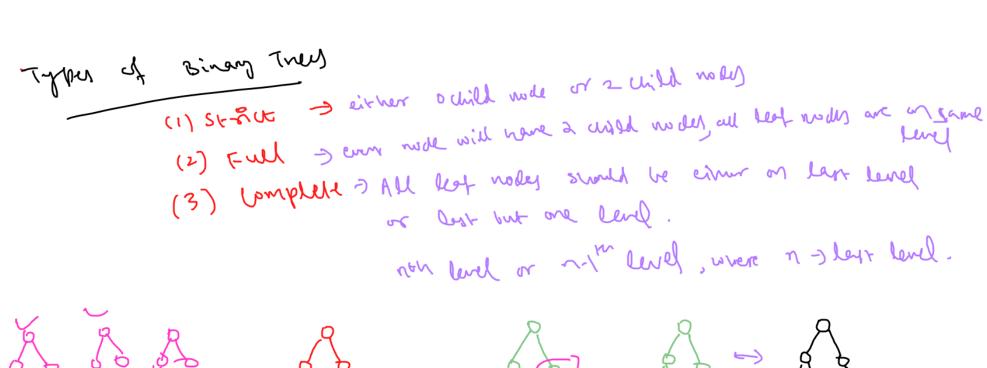
1 mode = nout node

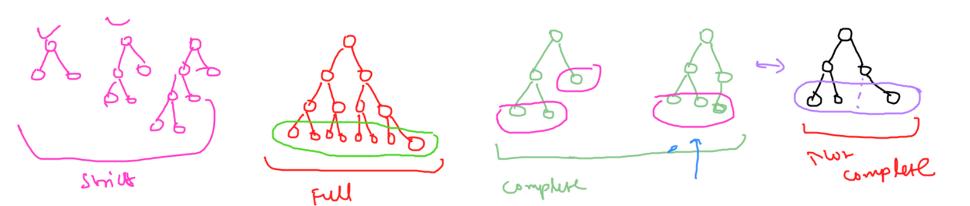
(4) こ 0

(2) No rode -> H(1) = -1

No. of unlabelled binony toels possible with'n nodes Unlabelled Labelled So C for N=3, 5) 5 undehelled Binary mey where v= w. of No. of unavelled Giveny mess

No. of labelled binary trus possible with in nodes: N=3 A, B, C B B A C C B A F B B A TON COUNTY Tored bywelled brown here = 6 * 5 = 30 In com smure, levelled born trey = n! m. 4 unlabelled BTs (40. A smutures) = 2n(y Tord lawlled BTs = n! * 2n(n/(n+1)



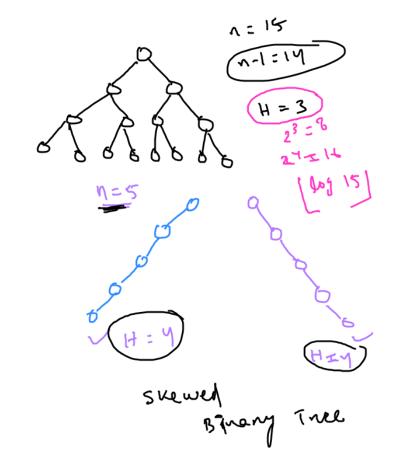


J. All rul BT are complete BT out T. All complete BT are not Full BT.

M' nodes

Man Height = M-1 (soumed 137)

Man Height = [log M] (true 37)



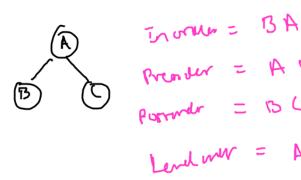
men H = 2ht1_1 (Full)

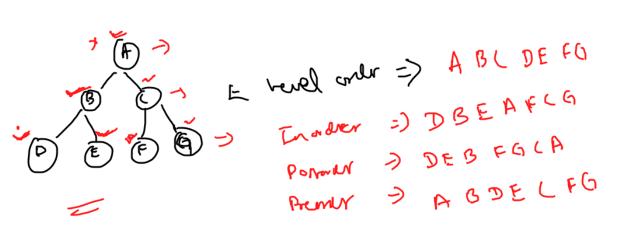
2'-0-LU2'-60-L12'-6 $3^{0} + 2^{1} + 2^{1} + 2^{2} + - + 2^{5}$ $3^{0} + 2^{1} + 2^{1} + 2^{2} + - + 2^{5}$ $3^{0} + 2^{1} + 2^{1} + 2^{2} + - + 2^{5}$ $3^{0} + 2^{1} + 2^{1} + 2^{2} + - + 2^{5}$ $3^{0} + 2^{1} + 2^{1} + 2^{2} + - + 2^{5}$ $3^{0} + 2^{1} + 2^{1} + 2^{2} + - + 2^{5}$ $3^{0} + 2^{1} + 2^{1} + 2^{2} + - + 2^{5}$ $3^{0} + 2^{1} + 2^{1} + 2^{2} + - + 2^{5}$ $3^{0} + 2^{1} + 2^{1} + 2^{2} + - + 2^{5}$ $3^{0} + 2^{1} + 2^{1} + 2^{1} + 2^{2} + - + 2^{5}$ $3^{0} + 2^{1} + 2^{1} + 2^{1} + 2^{2} + - + 2^{5}$ $3^{0} + 2^{1} +$ True Traversals

(1) Inorder 3 L Root R

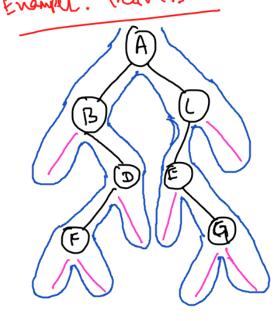
(2) Porosder -> Root L R (3) Porosder -> L R Root

(4) Level under -> Leveluse





Enample: Traversal



Preorder - ABDFCEG Thorser - BFDAEGC Posterius - FDBGECA True Representation

(1) A-roup

(2) Linued Link

(3)

(4)

