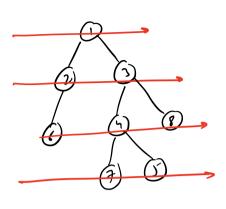
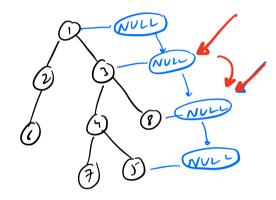
## Level Order Transal [LOT]

Print





-> if (rut = = NULL)

gum < Nole 7 g; g. even (rost), g. even (NULL);

while ( g. sin () > 1) {

Note f = g. front().

g. degrew ();

if (f = : NULL) {

print (new Line);

g. eight (NULL);

NHH

print (f. dala);

if (f. left!= NVV)?

g. engune (f. left);

if (f. right!= NVV)?

Q. engune (f. right); else ? ٢ Ļ Sin= 1

guere < Norte > 9: g. engun (rost); while (! g. i, Roy to ()) { 52 = g. siu(); f (i=0; i<52; i++) {
Norly f = 9. front(): g.degren (); print (f. dales); if (f. lft!: NVW) ?
g. enguere (f. left); if (f. right!= NVW) {
g. enguen (f. right); print (nu line);

Print the Left view of the B.T.! 1,2,4,7,3 Obs: 1st dement of every level guere < Norle > 9: g. cuquer ( rost); while (! g. i, Roy to ()) { 52 = g. siu(); f(i=0; i<52; i++){ Norl f = 9. fmt(): g.degren();

print (f.dalin); if (f. left!: Now) ?
g. engune (f. left); if (f. right! = NVII) {
g. enguen (f. right); ζ

print (nustine); Print Right Vine June < Nord > 9: 9. cogner ( root); l:0 7 while (! g. is lang ()) { 52 = g. sin(); f(i=0; i<52; i++){
Node f = 9. foot(1: g. degreen ();

print (f. dala);

if (j. lft!= NVW);

g. engune (f. left); if (f. right!= NVII) {
Q. engum (f-right); - print (nortine); ζ

9 Girm a B.T. Do LOT (L-R)

12
5 4
76

9 des: Post right child before child!

Given a B.T.

Zig-2ag L07?

Given a B.T. Do Vertical Order Traversal [ VOT] < 5, 107 < 2,97 < 1,6,7,117 < 3, 177 < 0,13> <127 Hoch Mg < int, List < Norle >> hm;

High My < int, List < Norle >> hm; man L = -00, win L = +00 voil preorder (Noh rout, int l)?

if (rout == Num) ret; mant = man(ment, 1); punl = pun (minl, e); hm[l].add(root); provider ( rost. lft, l-1); priorh (rost. right, l+1); f(i= minl; iz= manl; irr) { CORNER CASE:

class Info ( Note note; \_\_\_\_\_ guene < Info > 9; g. engueur (Info(rost, 0)); man L = 0, min L = 0; while (! g. is hong ty ()) } Info f = g. front(); Q. dignere () hm[f.l].abl(f.nole); man L = man (man L, f. l); sin L = min (min L, f. l); if (f. nole. If != NULL) s g. engrum (Info (f. onte. left, f.l-1); if (f. nole. signt = NULL) s g. engrum (Irfo (f. ork. signt, f.l+1);

SC = O(N) SC = O(N) SC = O(N)

Full B.T / Proper BT (a) A D.T wherin every note has either 2 dishel or (4) Complete B.T. A B.T. Lunin every level is fully filled encyt possibly the let level, which is

Perfet BT.

A B.T with every book fully filled! of Given a B.T. Check if it is height bulened! Desclute diff b/s the leight of

Wift S.T & right S.T <=1 for -M nodes! balonee factor (note)

- Absolute diff b/s the height of

left S.T & right S.T

