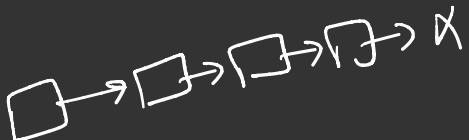


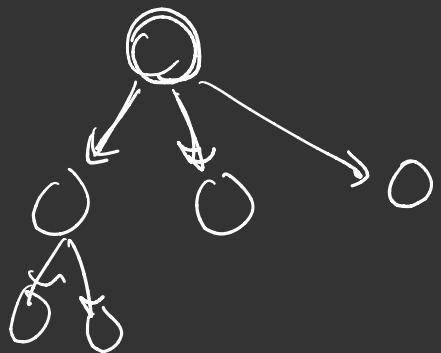

Binary Tree

→ what → ?

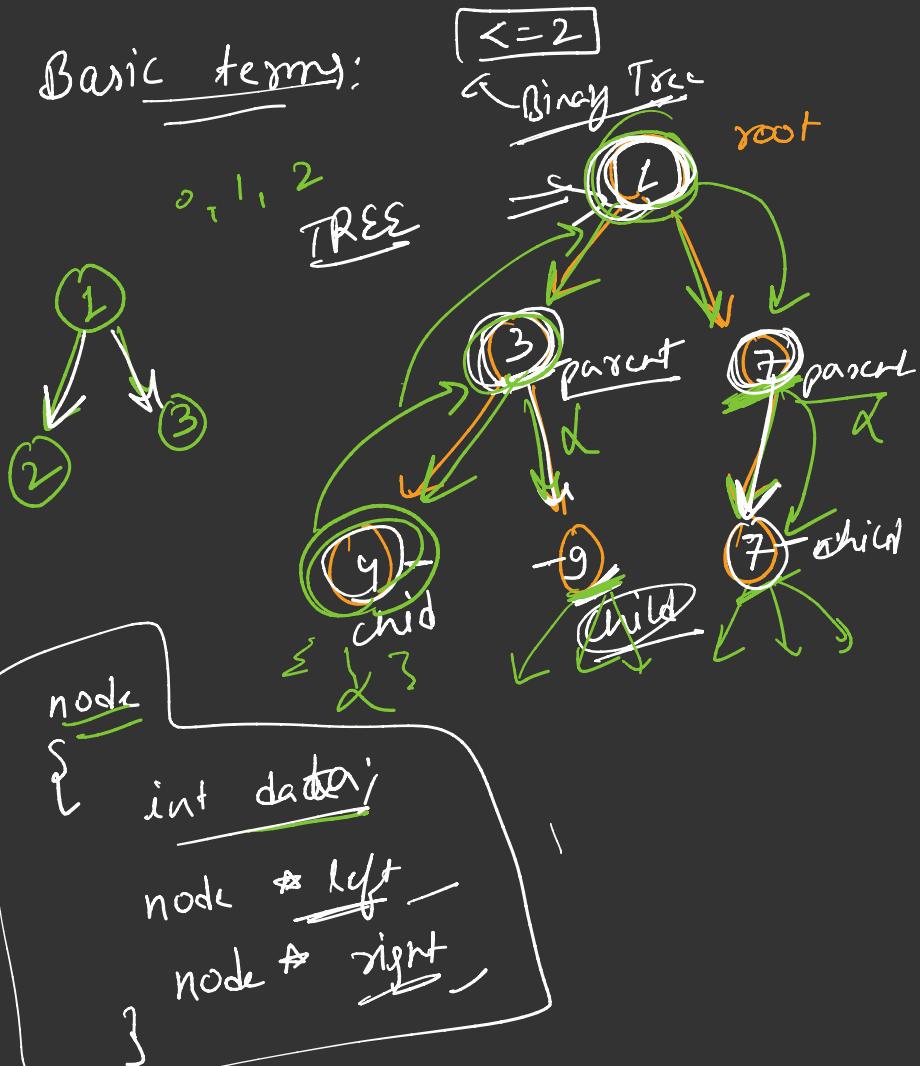
linked list → linear D.S



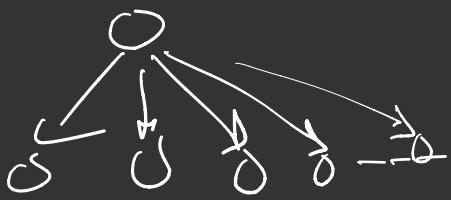
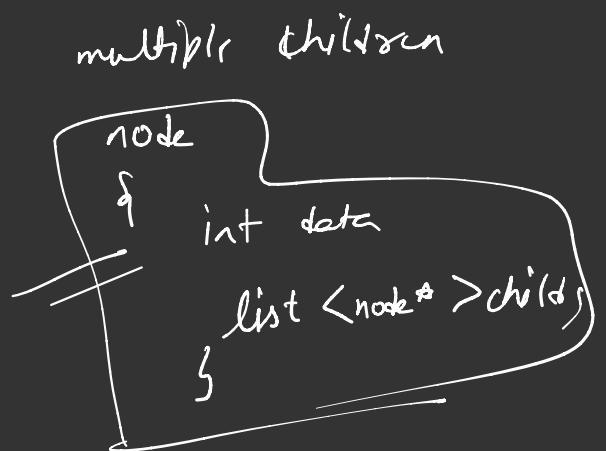
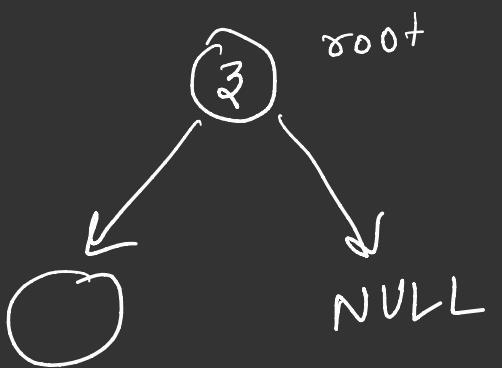
TREE → non-linear D.S



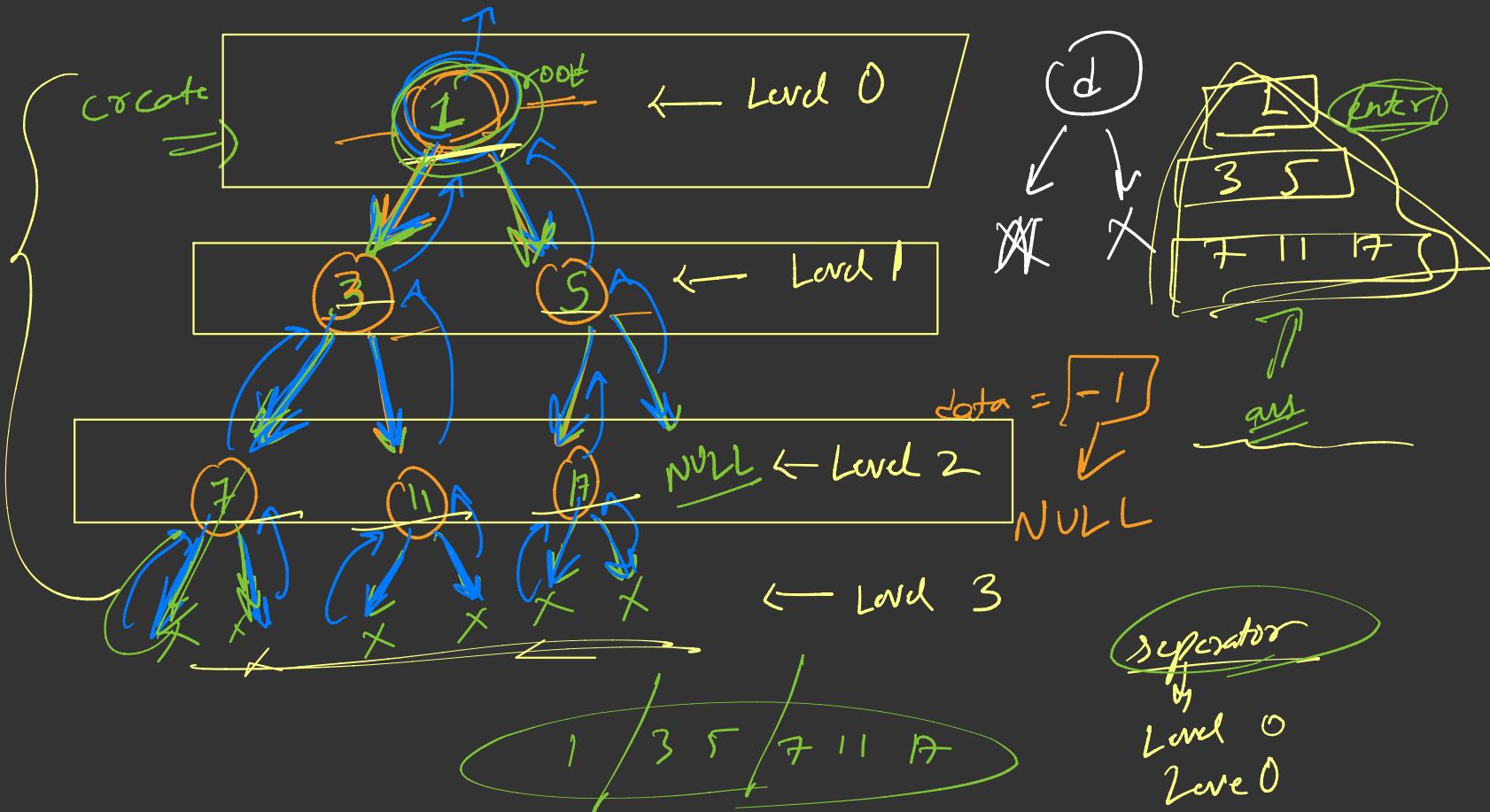
Basic terms:



- ① Node
 - ② Root
 - ③ Children
 - ④ Parent
 - ⑤ Siblings → parent
 - ⑥ Ancetor
 - ⑦ Descendant
 - ⑧ Leaf
- n-ary

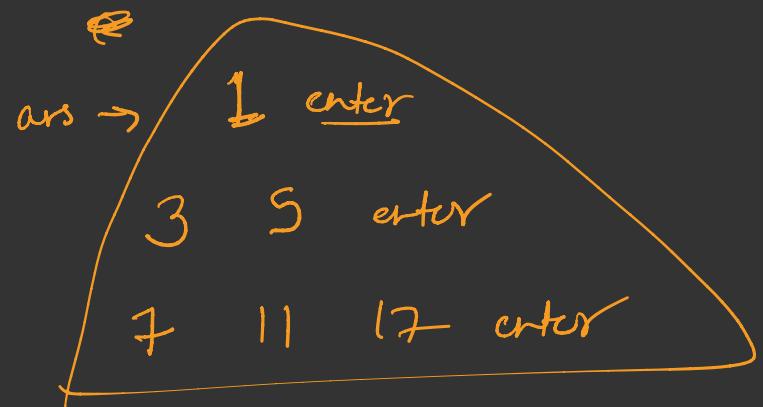
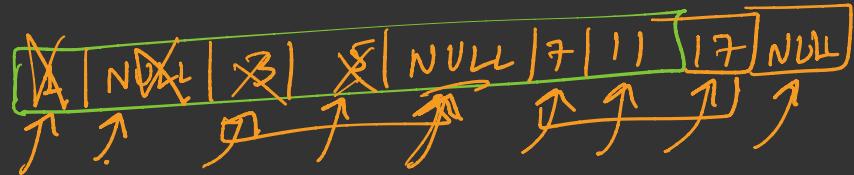
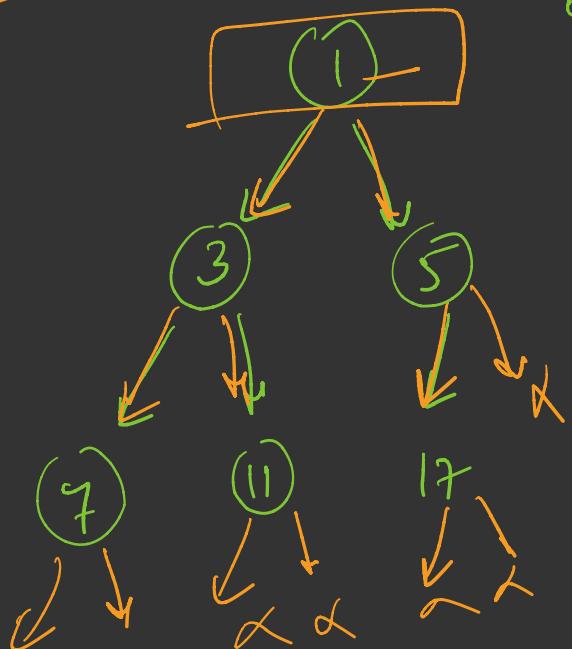


Creation / Build → Binary Tree



solve

Dry run



Homework →

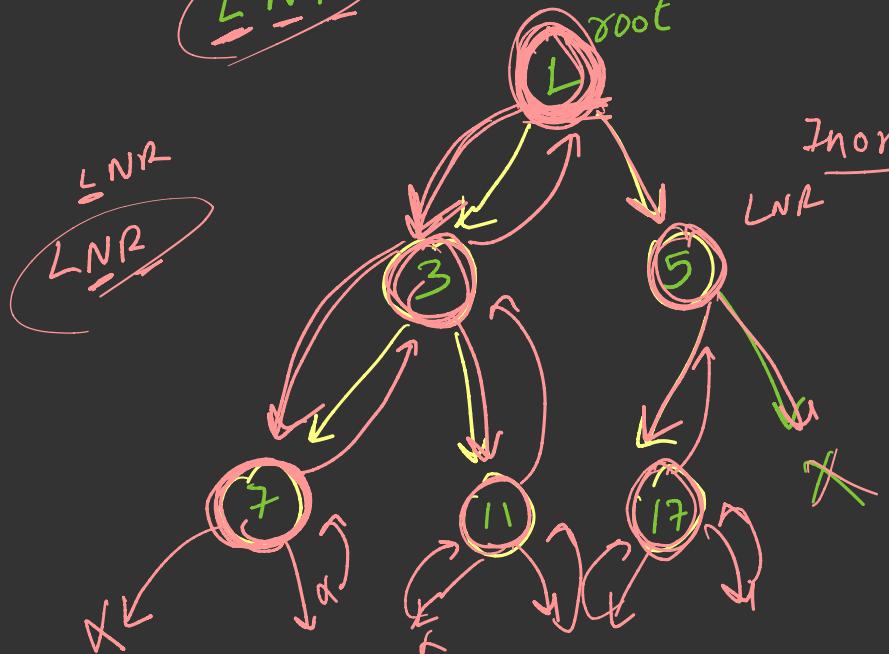
Reverse Level Order Traversal



Inorder
L N R

PreOrder
N L R

PostOrder
L R N



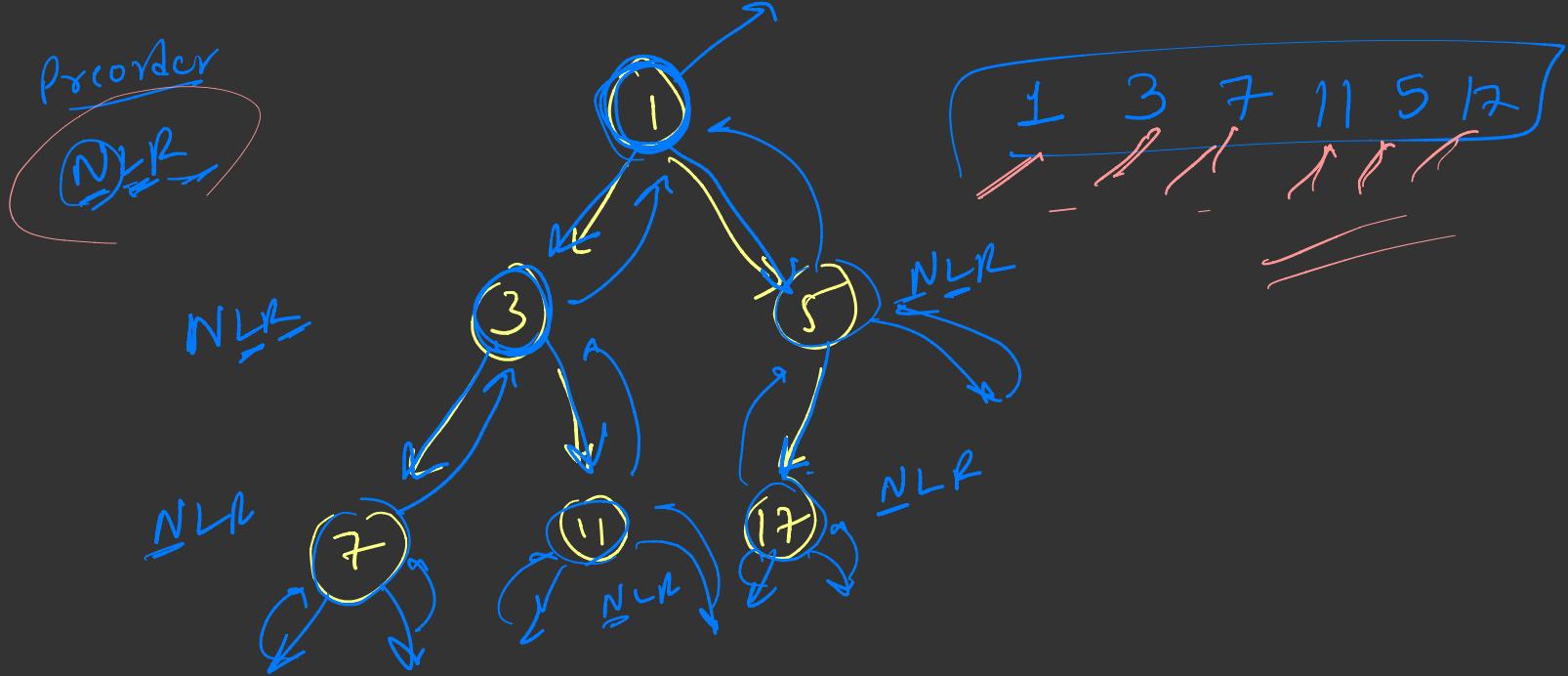
Inorder:-

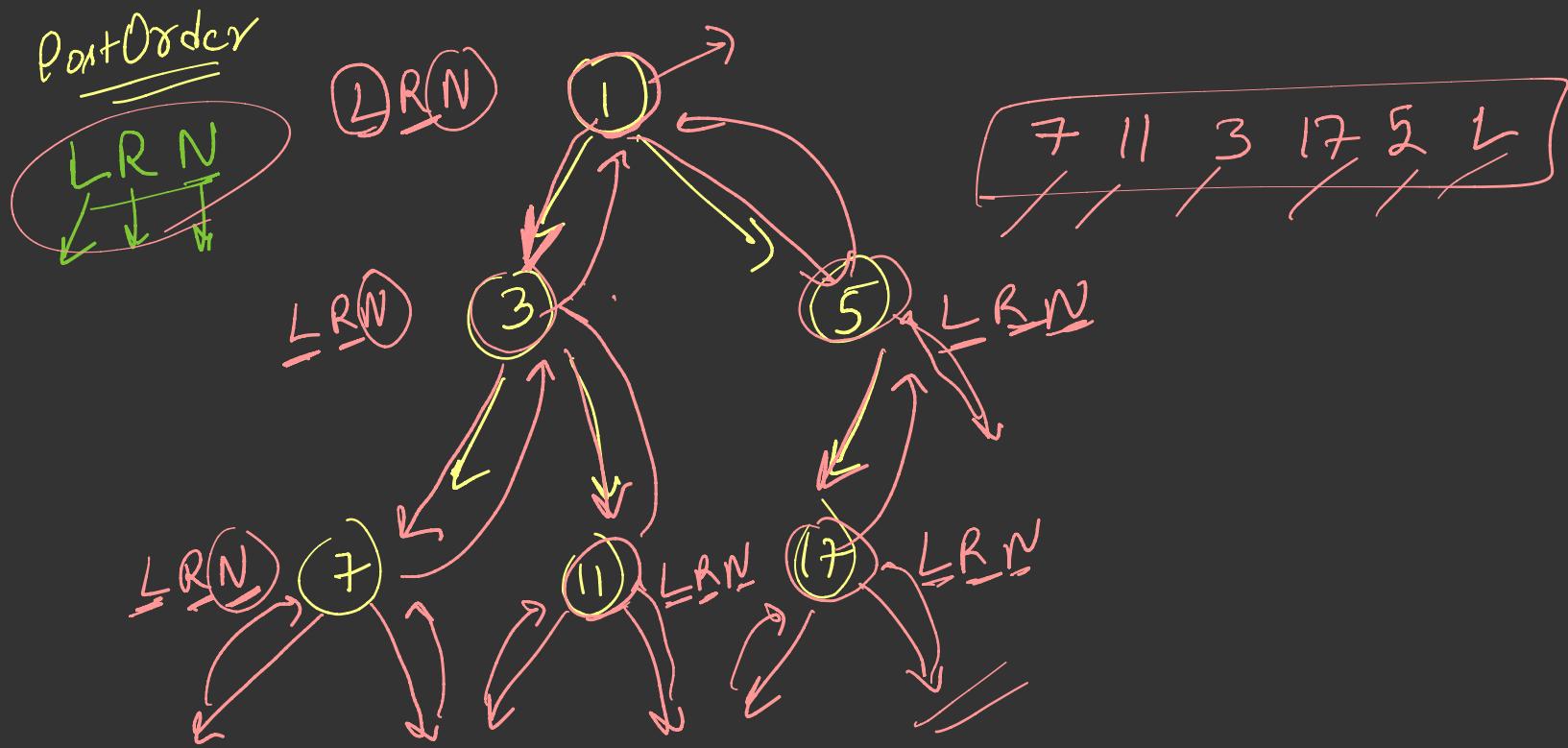
7	3	11	1	17	5
---	---	----	---	----	---

L → left part ~~regarding~~

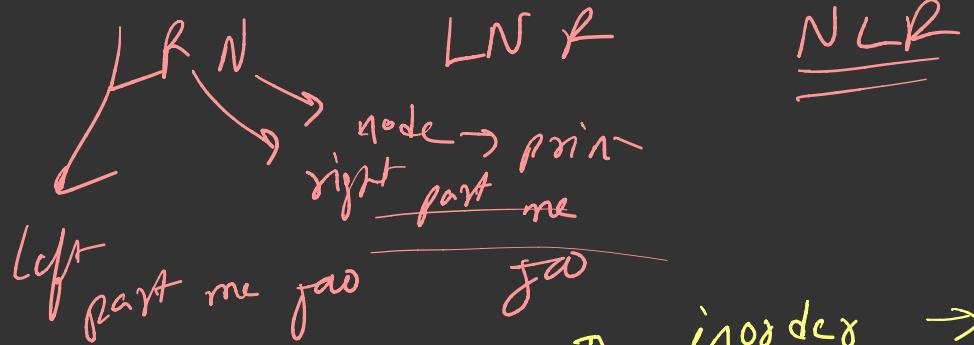
R → right part ~~regarding~~

N → print ~~regarding~~



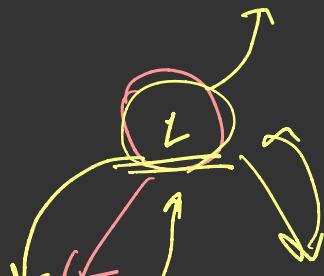


4 traversal:- LOT, ID, PreO, PostOrder



inorder $\rightarrow LNR$

\underline{LNR}



$\boxed{6 \ 3 \ 5 \ 2 \ 4 \ L}$

\underline{LNR}



\underline{LNR}



\underline{LNR}



\underline{LNR}

