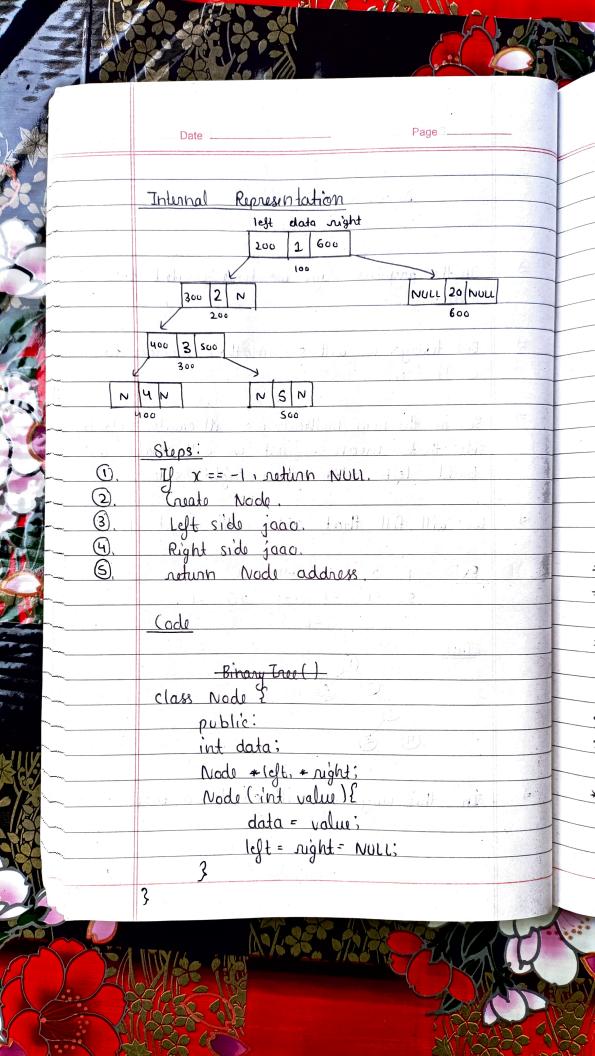
Date _ Day-150 Troes -2 In the previous day, we have croated tree level wise But today, we will see another method to create tros. So, in the new method, we will create side by side that means first we will create on build left side then right side. A A A A A WAR We will fill that side until we get -1. Ex! 1 2 3 3 00 4 1 7 1 1 1 5 -1 -1 -1 20 -1 Inee In this way, we will create a tree.



Nodo * Binary Troo () { int x; cih >> >c; ill x == -1) notion NULL; Node + temp = new Node (x); temp → left = Binary Tree (); temp - night = Binary Treo (); T.C. → O(h), S.C. → O(h) + for best & aug. case & O(n) + for worst Traversal! Visiting nodes in a particular order. \exists Types of Traversal! Pre-order Traversal -> NLR In-order Traversal -> LNR 2 Post-ander Traversal -> LR N Pre-order Traversal *

	DatePage
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no.	NLR
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a company	(g) (g) (l)
n, w.	COO box long = grow & Albo A =
7	In Pro-ander
=	First, we traverse Node then left side and
	then night side.
44	West Judge Stock
~~~	Ans -> 1 2 3 4 5 6 7 8 9 10
	1 6 (A) 6 2 7 8 (A) 6 2 1 E
E	Inorder Traversal
= =	L N R
	C MIV IC
~~~.	Ans -> 4 3 5 2 6 1 7 9 8 10
~	atro minimog o di abon cuilisivi
=)	Postanden Traversal
·	1 R N
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`\	Ans + 4 5 3 6 2 9 10 8 7 1
	NIB 3 0 0 2 3 (O 0 7 1
<u> </u>	Code in the house of the many of the
<u> </u>	Proorder
	Indivine Charles 2
- reng	void preorder (Node * noot){
<u></u>	if (noot == NULL)
<u></u>	netun;
	JUTU IN,

Date conter nout - data; preorder (temp > left); preorder (temp - right); $T_{,C} \rightarrow O(N)$, $S_{,C} \rightarrow O(H)$ on O(N)Inarder void inarder (Nade * nout) { illnout == NULL) neturn; inander (nout -) left); cout " nout + data; incorder (nout - right); 3 Postander void postander (Node * nout) { if(nout == NULL) noturn; postander (nout + left); postander (nout + right); cout << noot -> data; 3

