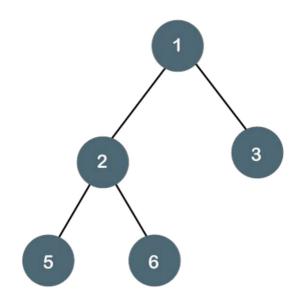
Traversal Algorithms TREES

By Gladden Rumao



TRAVERSAL

FS BF

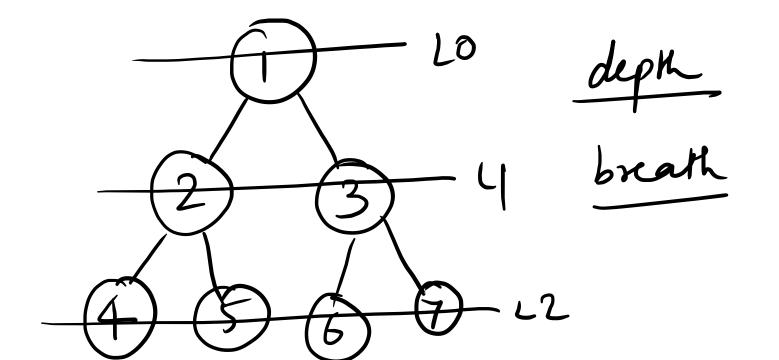
Depm First Scarch

Breadth First Searth

DFS

- 1 Inorder
- 2 Preorder
- 3 Pontorder

(1)	2		3
		2	.3
(2)(3)	2	_	31

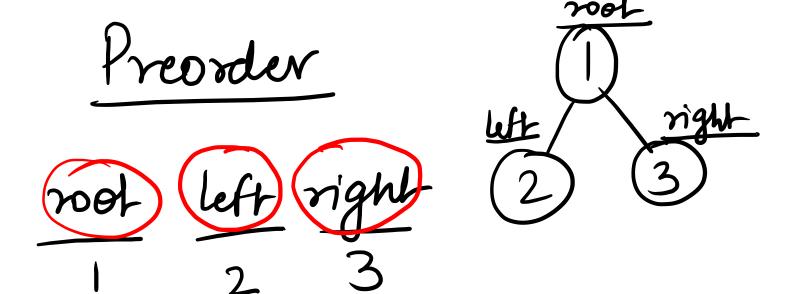


Inorder

Left noot right

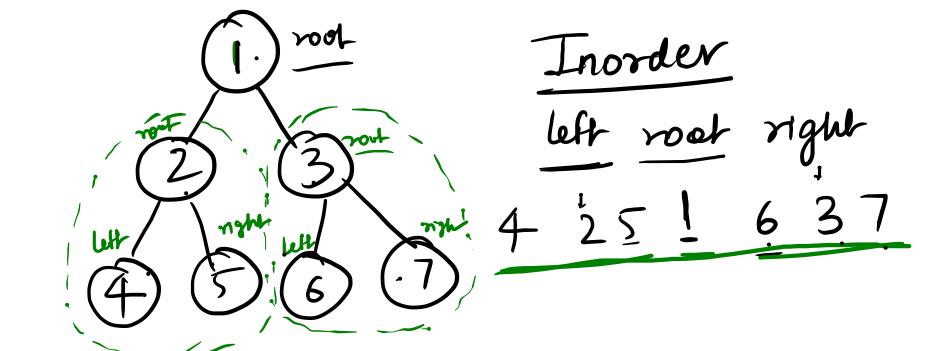
2

2

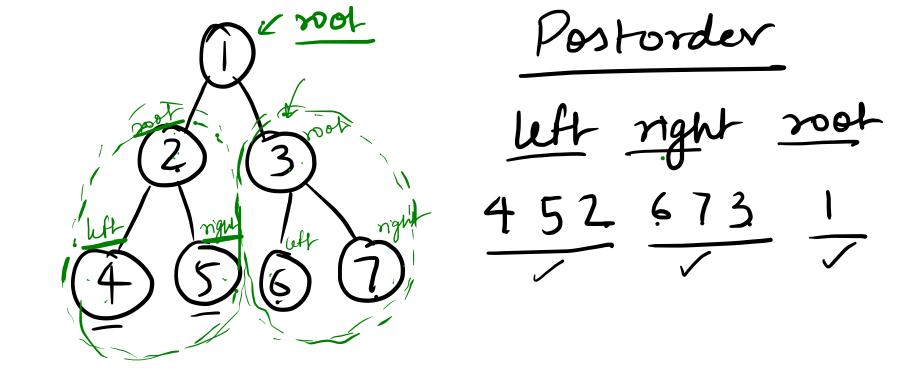


Postorder ight root

lift (root) night Inorder root left right Prorder Postorder left right most



eorder , ngw



Inorder L root R
prooder root L
perharder L
R

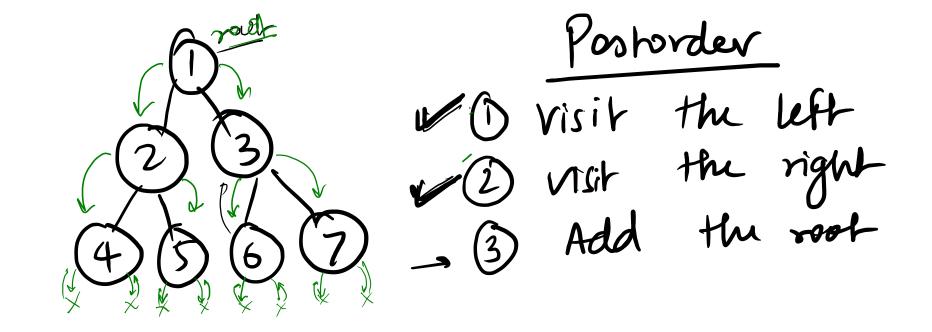
(1) Inorder Traversal 1) visit the left node 2) visit the noot node 4) 5) 6) 7) 3) nit the right node

$$\{425, 1, 637\}$$

(1) Inorder Traversal visit the left node the noot node nit the right mode 4,2,5,1,6,3,7 \$

1 Add the root 2 visit the left 3 visit the right

{1,2,4,5,3,6,7}



£4,5,2,6,7,3,19
result

Time Complexity = O(n)Space Complexity = O(h)(recursive stack)

space