## Binary Search Tree

- 1) Tree
- 2 Tree Traversal
- 3 Recursion

Data Structure

Linear

Array,

Linked Listy

Stack & Queue

Mon-lineer Toee, Graph

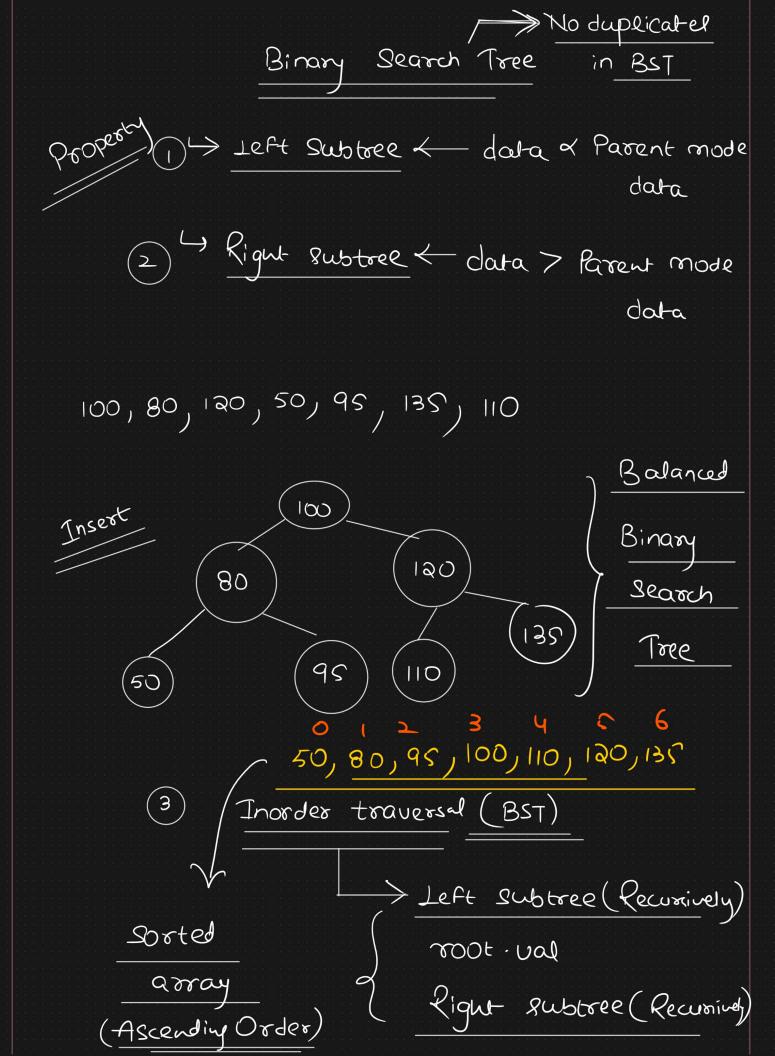
Graph Cycle acyclic

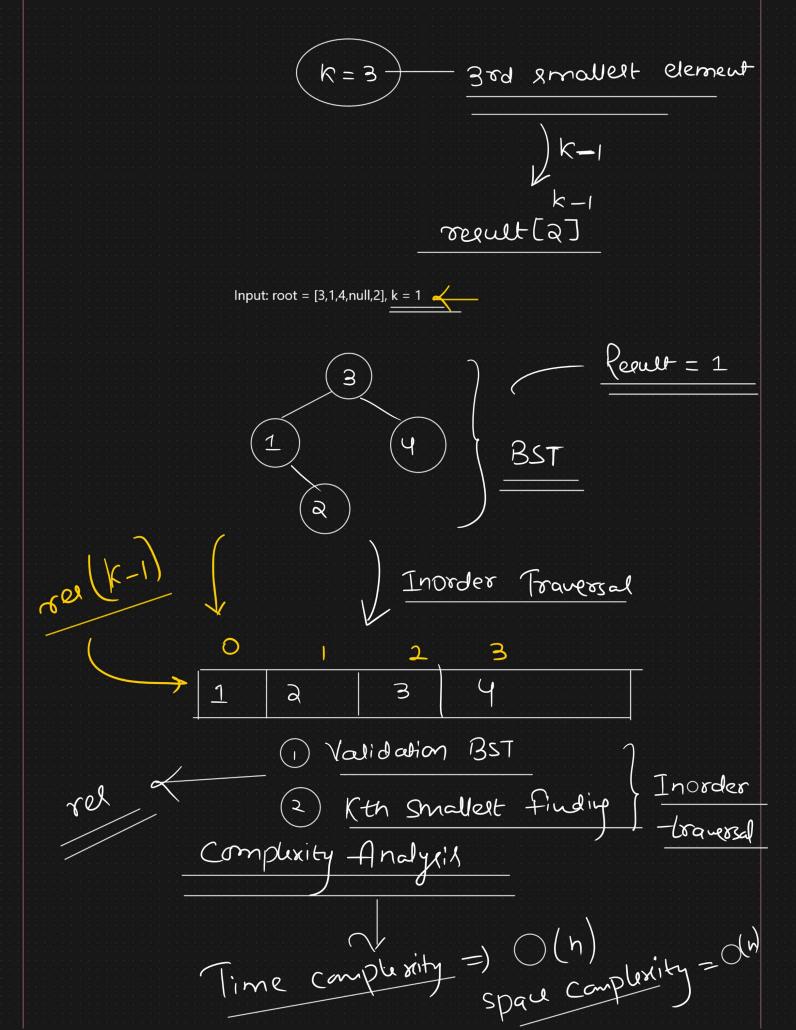
acyclic

Binary Tree

(0,1,2)

Atmost 2 child model





$$T(n) = 2T(n/2) + c$$

$$= O(n)$$

$$T(n) = \underline{T(h-1)} + C$$

$$= O(n)$$

## Barancel BST

- Almost equal num of moder in left l right subtree

## Imbalanced BST

of num of nodes in left-le signer

100/70/85/110

height

(h)

Inexton

Balancel Bst

Imbalanced BST

T(n) = T(n) + C T(n) = T(n-1) + C= O(1052)

Why ??

Balanced

Seroching 7 (log,7)

) alabare

file Indeniz

Data Science

cluteny