BST intro

then poot and on right side greater (Similar to binary
Search) applied to all subtrees

- O No Duplicates
- 2 Inorder is in Sorted order
 - B Rember cotion number 2nCn (for a nodes a x BST can X= n+1 be created)

representation can be Array or Linked-List

All elements are in left are smorter than most used root aswen right bigger

Seatching Procedure

20 40

K18=25

1. compare with 30, 25 230 go lest side

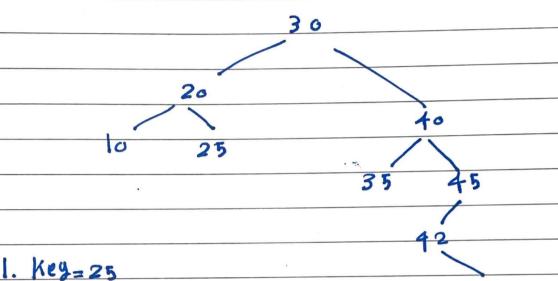
2. compare with 20, 25 > 20 go right side

3 found Since 25 \$ 25, 25 \$ 25

Time complexity bages on tree height

43

How To delete From BST



directly delete and

make Parent right = Null

- 2. key = 42 (1 child) Switish with shild then delete

 3. key = 30 (2 child) find in order Precsessor (25) OR
 in order successor 3 then switish, delete
- 9. ker-to 35 OR 42 but in case choice was 42

Again you need to modify its old Place (Fredessor Of Successor)

notas 30 with 25 GR 35 they longthave children

Generating Binary tree Search Preorder

Here we need only preorder or Post order video 308 for more understanding

we need & back