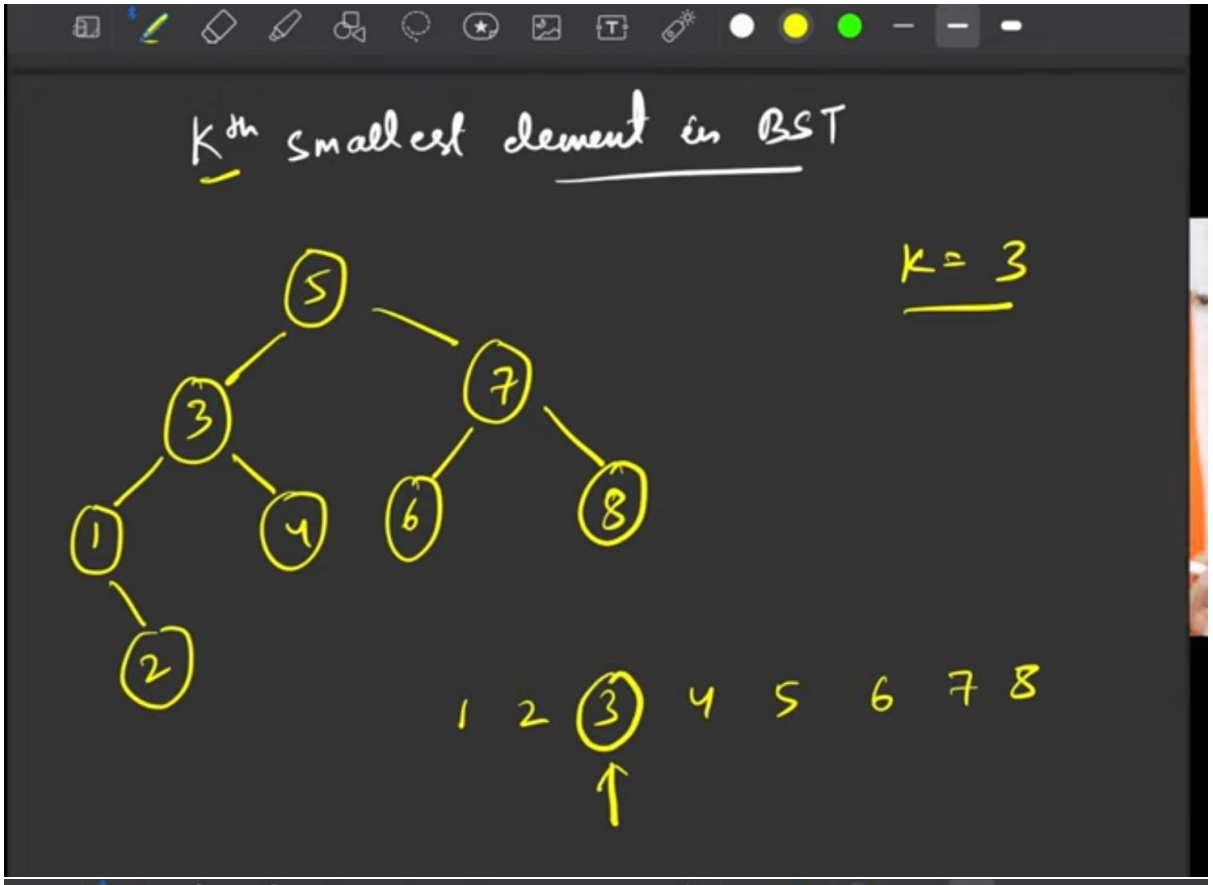
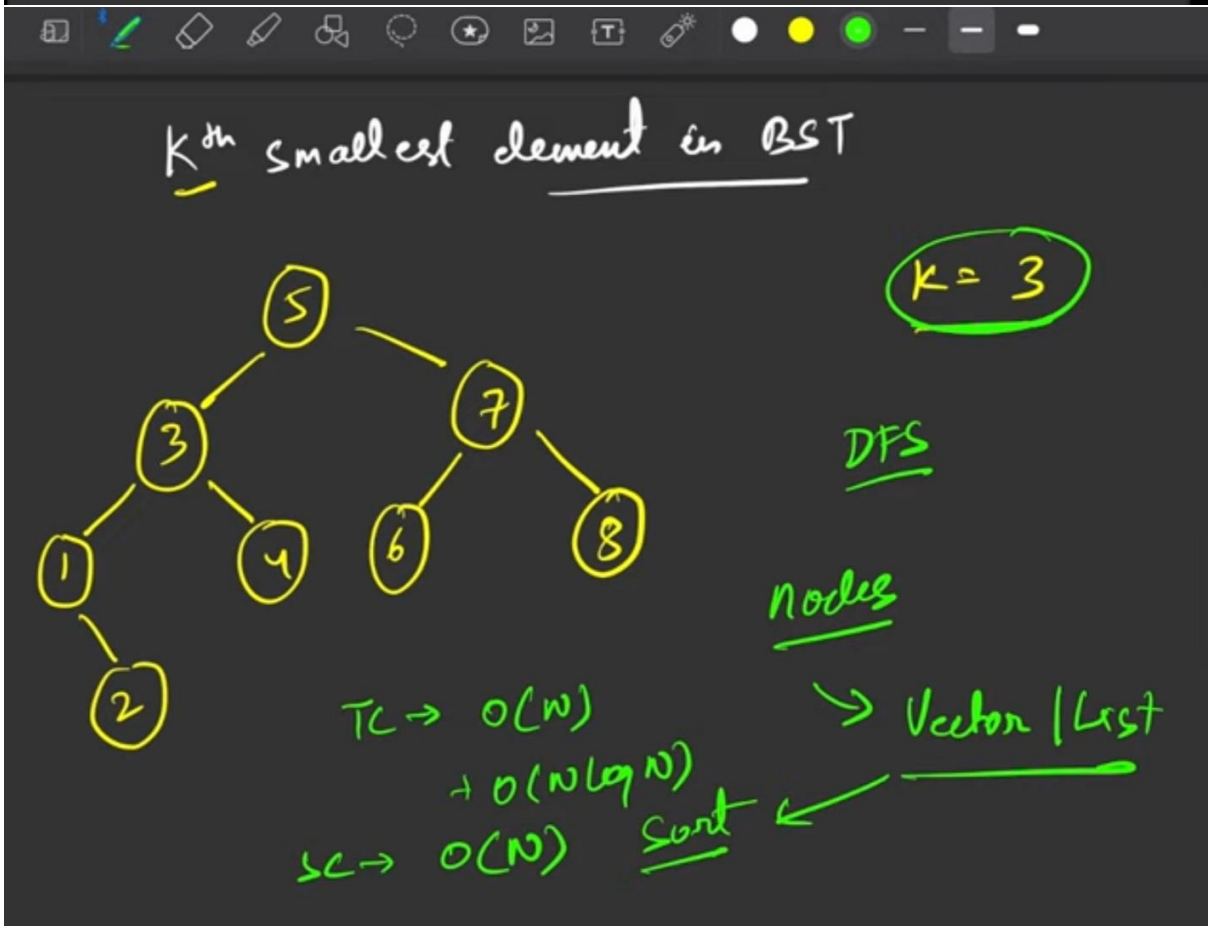
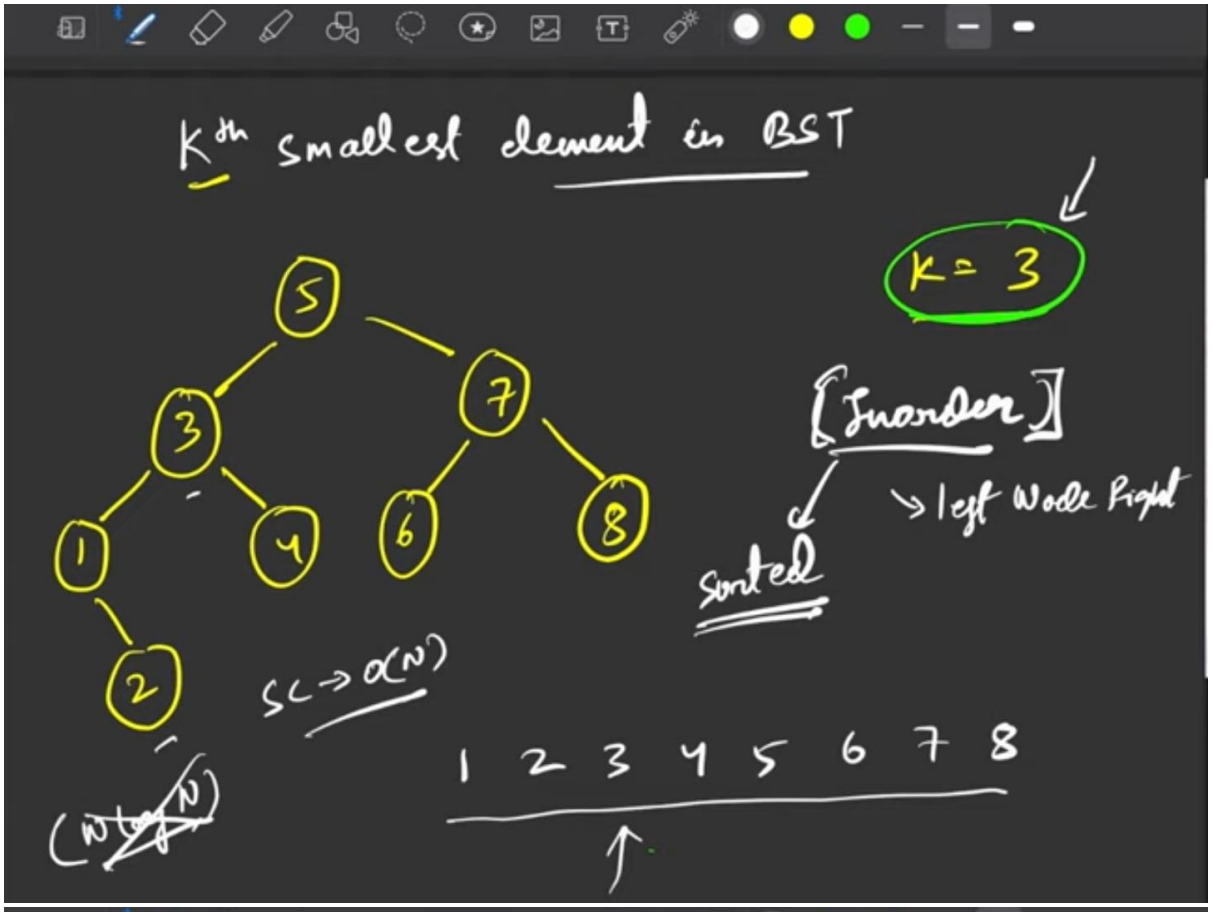
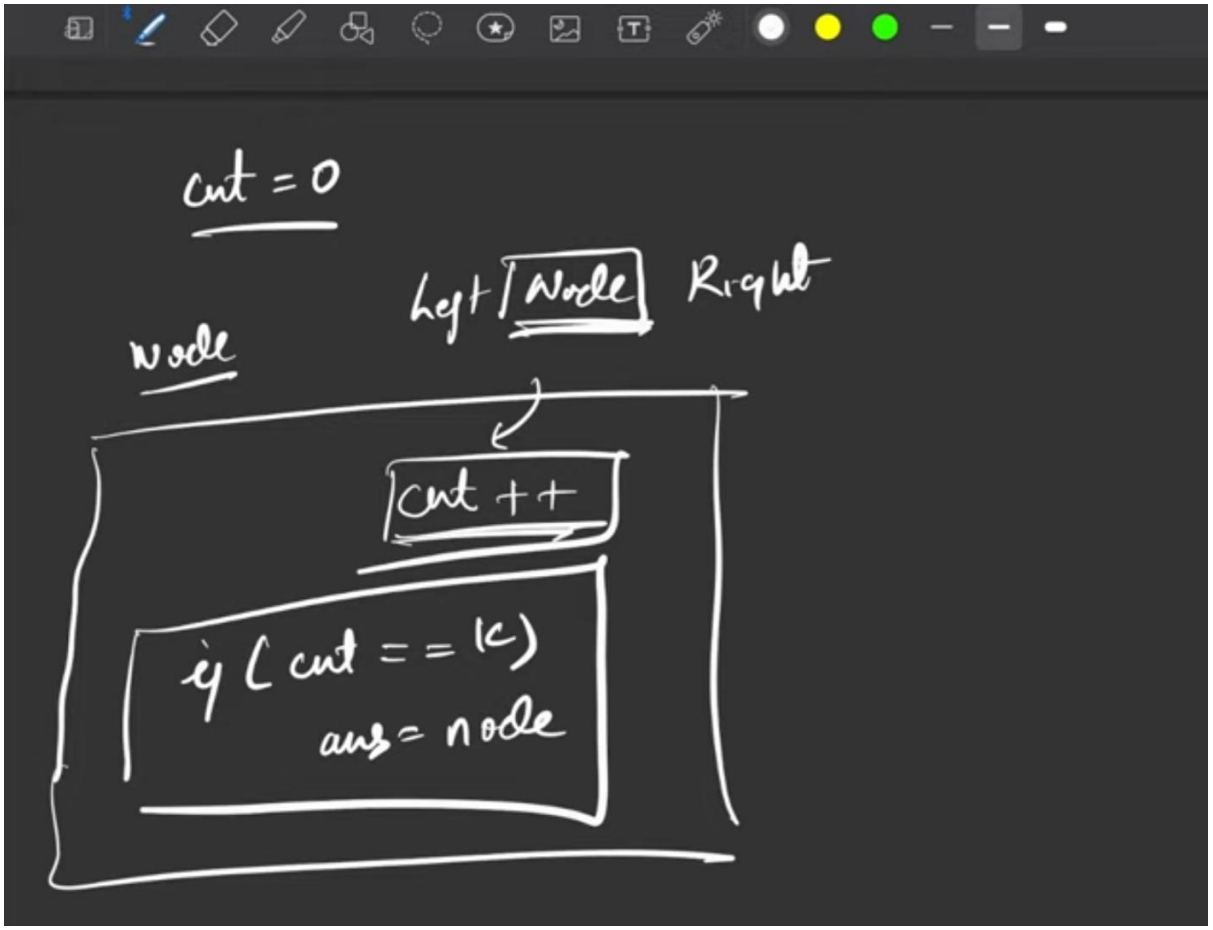

Kth smallest element in BST
K = 3
5
3
7
1
4
6
8
2
1 2 3 4 5 6 7 8


Kth smallest element in BST
K = 3
5
3
7
1
4
6
8
2
DFS
Nodes
TC → O(N)
→ O(N log N)
SC → O(N)
Sort
→ Vector | List


Kth smallest element in BST
K = 3
5
3
7
1
4
6
8
2
[Inorder]
Left Node Right
Sorted
SC → O(N)
1 2 3 4 5 6 7 8


cnt = 0
Left Node Right
Node
cnt++
if (cnt == k)
ans = node

Recursive → TC → O(N)
SC → O(N)

Iterative

Morris → O(N)
O(1)

One traversal → N

Kth largest = (N - Kth) smallest