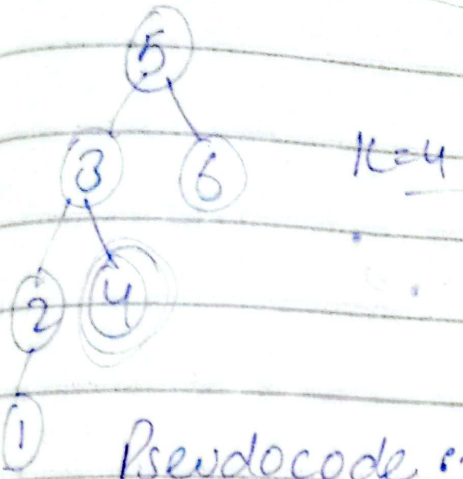


Kth Smallest in BST



Do:-

- * BST \rightarrow Inorder.
- * Track order also.
- * When order = K we tracked the Number.
- * Move order by +1.

1) Pseudocode:-

preorder = 0

$KthSmallest(root, K)$ {

if (root == NULL) {

return -1

if (root \rightarrow left) {

leftAns = $KthSmallest(root \rightarrow left, K)$

if (leftAns \neq -1)

return leftAns

}

if (preorder + 1 == K)

return root \rightarrow val

preorder = preorder + 1

if (root \rightarrow right) {

rightAns = $KthSmallest(root \rightarrow right, K)$

if (rightAns \neq -1)

return rightAns

}

} return -1

TC = $O(N)$