

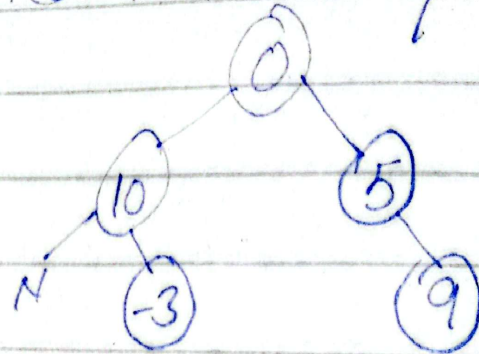
Sorted Array to Balanced BST

arr = [-10, -3, 0, 5, 9]

In BST: left < par < right

Inorder traversal sorted, so it is given

arr = [-10, -3, 0, 5, 9]
left mid right



Pseudocode

```
Node* helper(nums, st, end) {  
    if (st > end)  
        return NULL;
```

```
    mid = st + (end - st) / 2
```

```
    root = newNode(nums[mid])
```

```
    root->left = helper(nums, st, mid - 1)
```

```
    root->right = helper(nums, mid + 1, end)  
    return root;
```

```
}
```

TC = $O(n)$