Leetcode May Challenge DAY: 20

1. Python

```
stack = []


  while True:
    while root:
      stack.append(root)
      root = root.left
    root = stack.pop()
    k -= 1
    if not k:
      return root.val
    root = root.right
```

2. C++

```
class Solution {


public:
   int ans, count = 0;
   void inorder(TreeNode* root, int k){
      if(root == nullptr) return ;
      inorder(root->left, k);
      count++;
      if(count == k){
         ans = root->val;
         return ;
      }
      inorder(root->right, k);
   }
   int kthSmallest(TreeNode* root, int k) {
      inorder(root, k);
      return ans;
   }
};
```

3. JAVA

```
class Solution {
    int ans, count;
    public void inorder(TreeNode root, int k){
        if(root == null) return ;
        inorder(root.left, k);
        count++;
        if(count == k){
            ans = root.val;
            return ;
        }
        inorder(root.right, k);
    }
    public int kthSmallest(TreeNode root, int k) {
        ans = 0;
        inorder(root, k);
        return ans;
    }
}
```