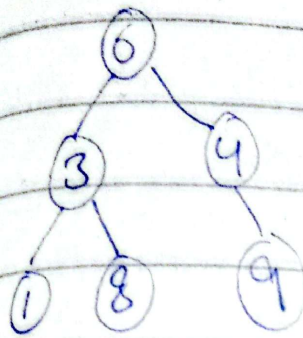
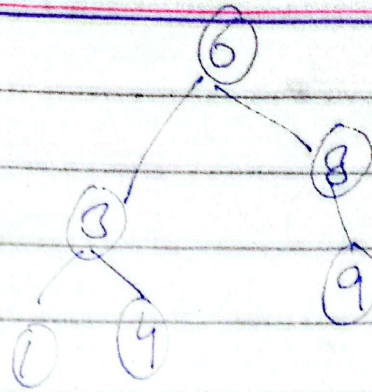


# Recover a BST



Recover →

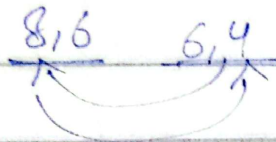


[1, 3, 8, 6, 4, 9]  
Seq Inorder ✗

[1, 3, 4, 6, 8, 9]  
Inorder Seq ✓

Condition: Sorted → prev < next.

1, 3, 8, 6, 4, 9



Pseudocode

```

prev = NULL ; first = NULL
sec = NULL;
Inorder(root) {
  if (root == NULL)
    return;
  Inorder(root->left)
  if (prev != NULL && root->val <
    prev->val) {
    if (!first) {
      first = prev
    }
    sec = root
  }
  prev = root
  Inorder(root->right)
}
  
```

TC = O(N)    SC = O(N)

TC = O(N)    SC = O(1)

Apply Morris Inorder Traversal

Use Inorder Traversal  
Creating threads.

Swapping