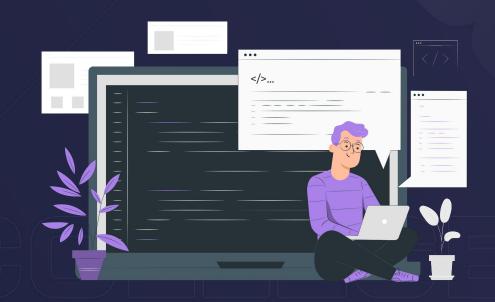




Lecture 57 Binary Search Trees - 3



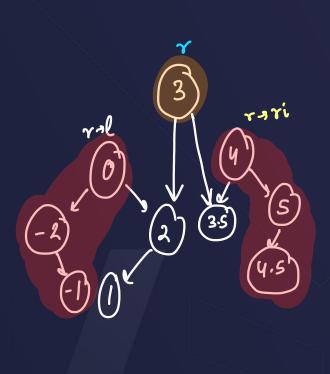


Recap

- Searching, Insertion, Deletion
- Interview Problems on BST

Ques: Trim a Binary Search Tree

[LeetCode 669]



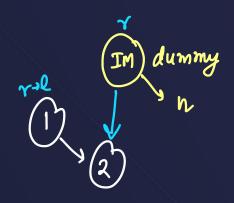
```
if (r=left=val < lo) {
r=left = r=left = right
if (r= right-val = hi) {

r=sright = root right-slopt
```

$$Jo = 1$$
 $hi = 3$

Ques: Trim a Binary Search Tree



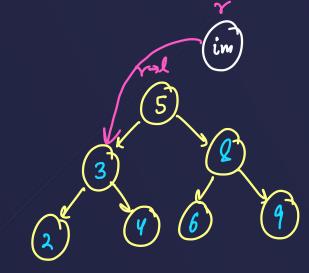


Ques: Trim a Binary Search Tree





$$lo = 1$$
 $mi = 2$

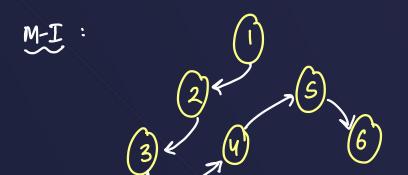


Morris Traversal = Inorder Traversal

I Herative inorder traversal - S.C. = O(1)

Ques: Flatten Binary Tree to Linked List

[LeetCode 114]

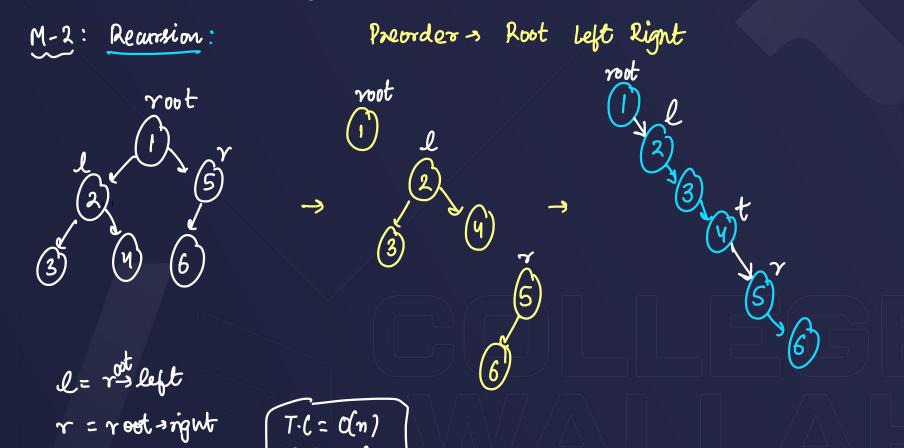


Make a preorder vector of treenodes.

vector < Tree Node + > ans = { 1, 2, 3, 4, 5, 6}

$$\left[7.C. = O(n) \right] \quad S.C. = O(n)$$

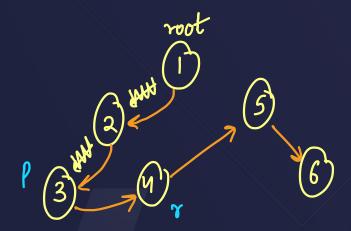
🛞 skills



Ques: Flatten Binary Tree to Linked List [LeetCode 114

M-3: Morris Fraversal

Curr, pred, right



curr = curr = right



Next Lecture

• Sets, Maps, Heaps





THANK YOU