

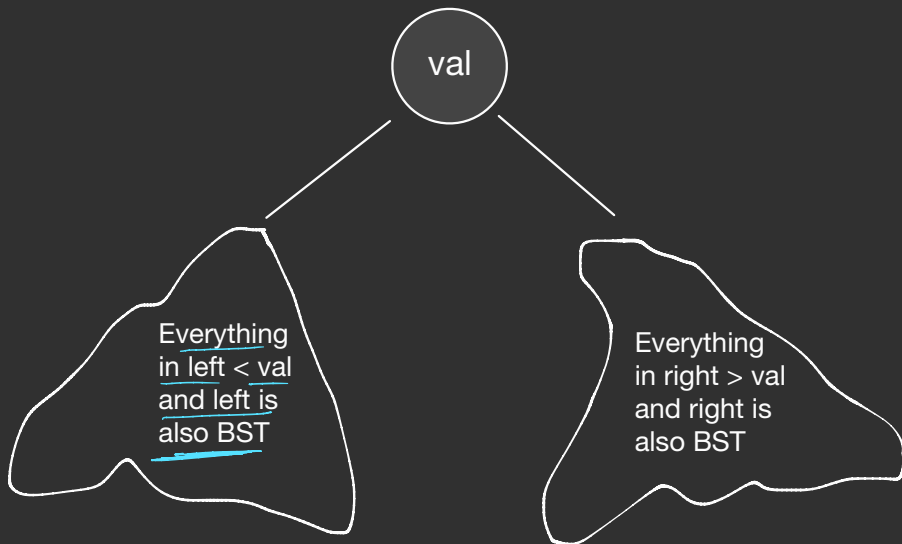
L76

BST and more Problem Solving

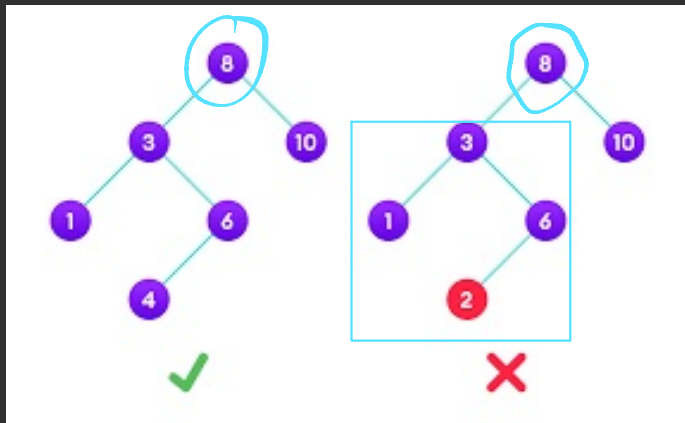
Join Discord - <https://bit.ly/ly-discord>

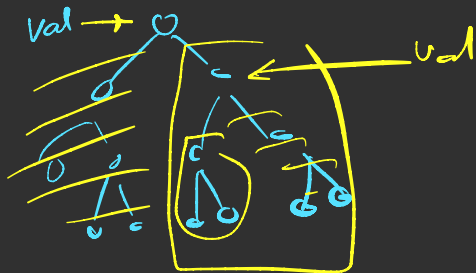
RECAP

What is a Binary Search Tree?



Example





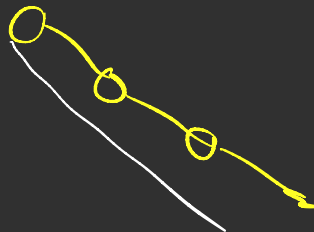
$$n \rightarrow \frac{n}{2} \rightarrow \frac{n}{4} \rightarrow \frac{n}{8} \rightarrow \frac{n}{16} \dots 2$$

$$\frac{n}{2^0} \quad \frac{n}{2^1} \quad \frac{n}{2^2} \dots \left(\frac{n}{2^k} \right)$$

Why is it important?
Let's see using a simple problem

$$\log_2 n$$

$$\underline{\underline{O(h)}} \rightarrow \begin{matrix} \log n \\ n \end{matrix}$$



Let's do some problems

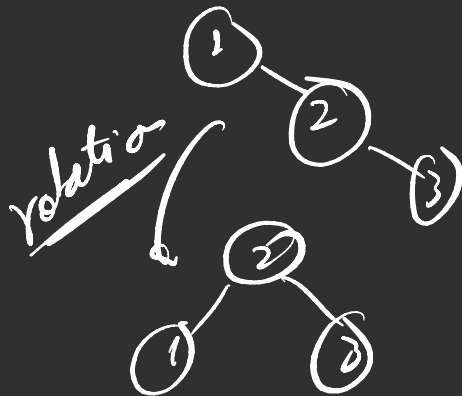
1. Validate Binary Search Tree

Intuition

Let's implement

2. Insert Node to a BST

1 2 3 4 5 6 7 8 9 10 11





Let's implement

3. BST to Greater Sum Tree

Intuition

Let's implement

4. LCA of 2 nodes in a BST

Intuition

Let's implement

Thank You!

Reminder: Going to the gym & observing the trainer work out can help you know the right technique, but you'll muscle up only if you lift some weights yourself.

So, PRACTICE, PRACTICE, PRACTICE!