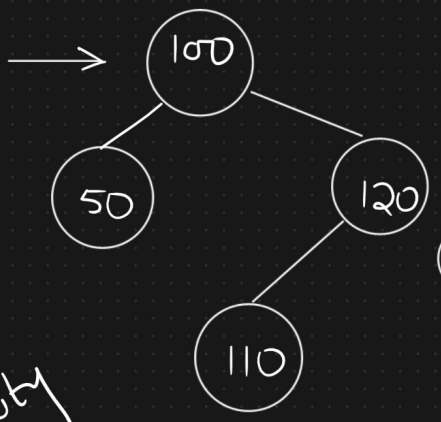
Insert in BST

100, 50, 120, 110



h

1. Locate the exact position

2. Insert that element in the allocated position

Time complexity

Balanced BST

Binary Search

$$T(n) = T(n/2) + c$$

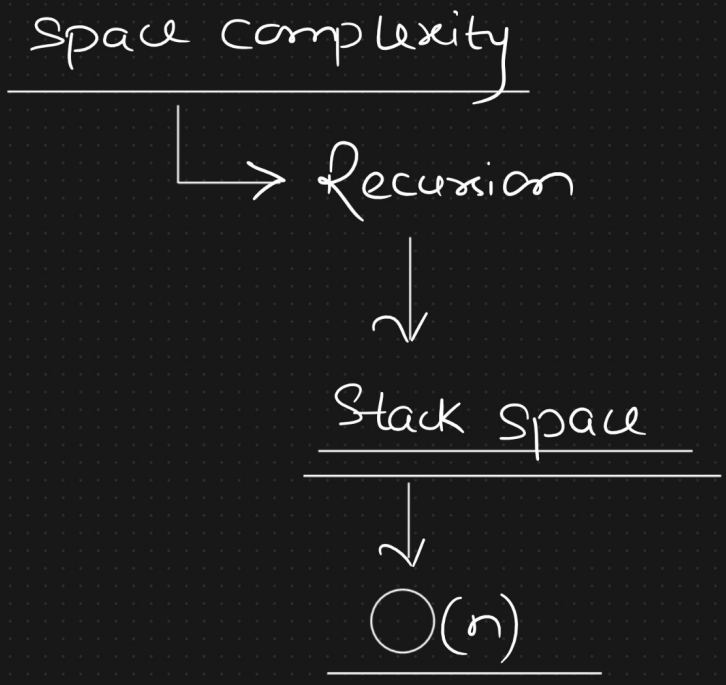
$$= O(\log_2 n)$$

h

Imbalanced BST

$$T(n) = T(n-1) + c$$

$$= O(n)$$


Space complexity
Recursion
Stack space
O(n)