

Monday, October 3, 2016 6:41 PM

To be

2.

Topic :

life

right-

Implement

Dictionary

↑

Extended Binary Trees

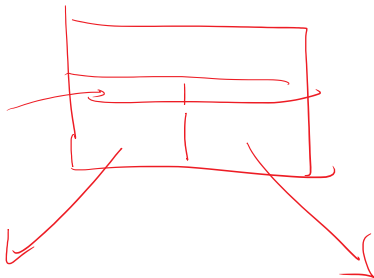


The reader trees

Node structure

b.7

(Thread)
or not



Set up for a threaded trees

→ first node from a with respect to inorder

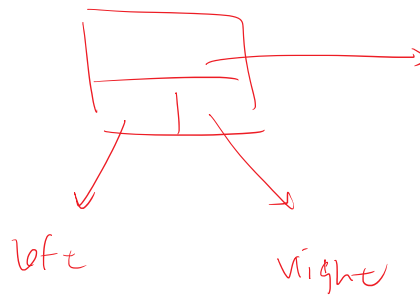
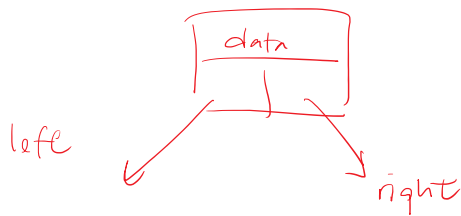
→ form a next function

→ form a prev function node.

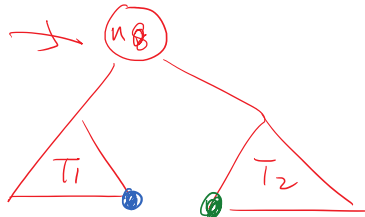
not nail



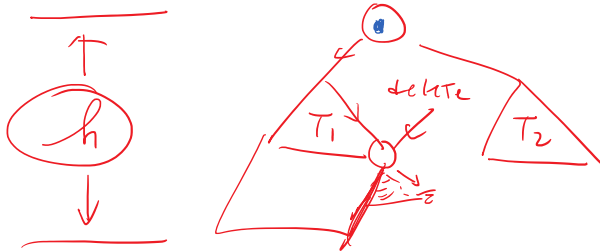
Binary Search Trees



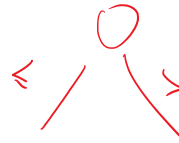
delete



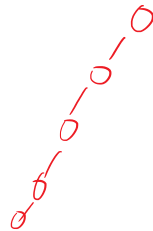
immediate pred of n ●
 immediate succ of n ●



Remark: Be Careful if there are multiple nodes with the same key.

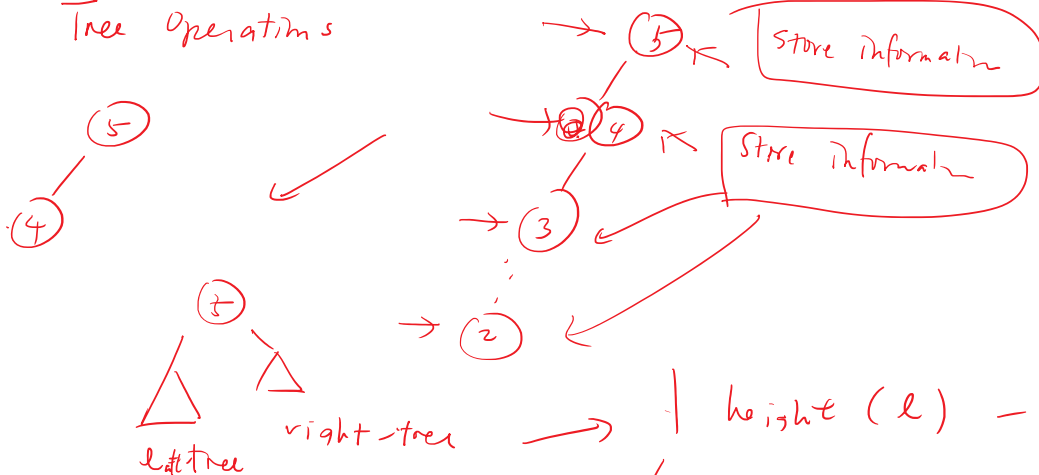


Worst Case
 of these operations
 $O(n)$



"Balanced" Binary Search Trees

Tree Operations



$$| \text{height}(l) - \text{height}(r) |$$

for AVL tree (one version of balanced binary search tree)
 want to know

... of balanced binary search tree
Want to keep ≤ 1
at every node.