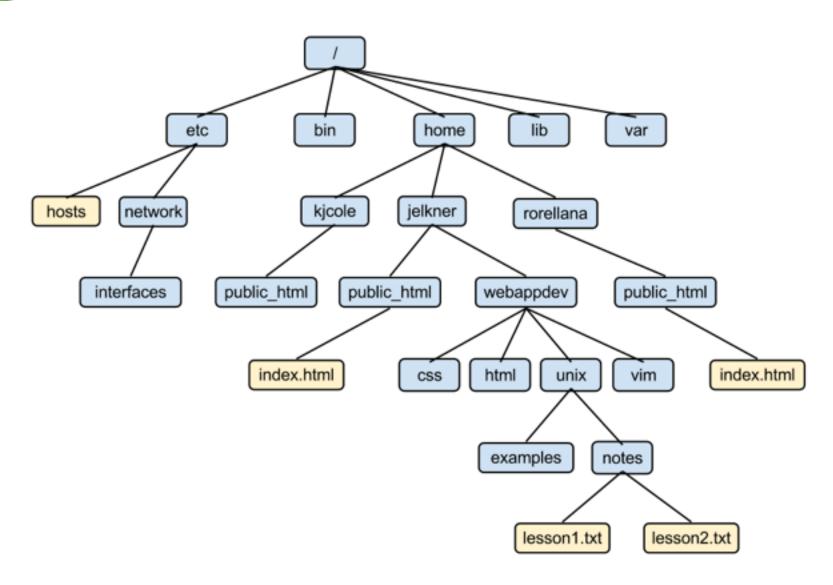
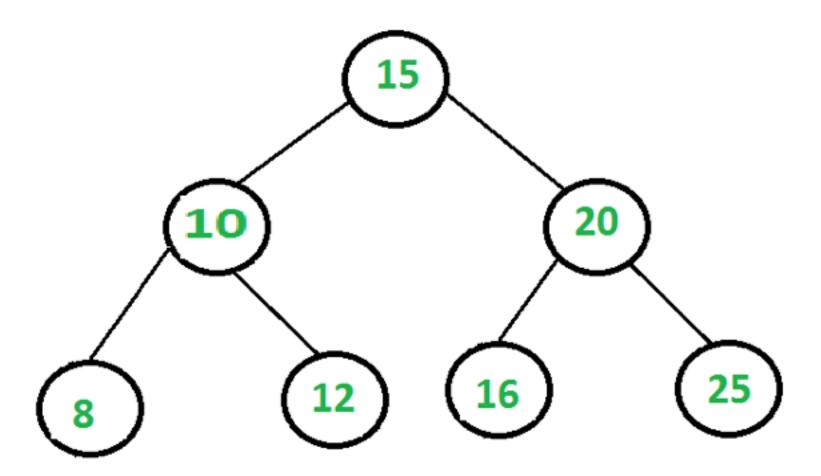
GoCode We learn by doing, by falling down, and by picking ourselves back up

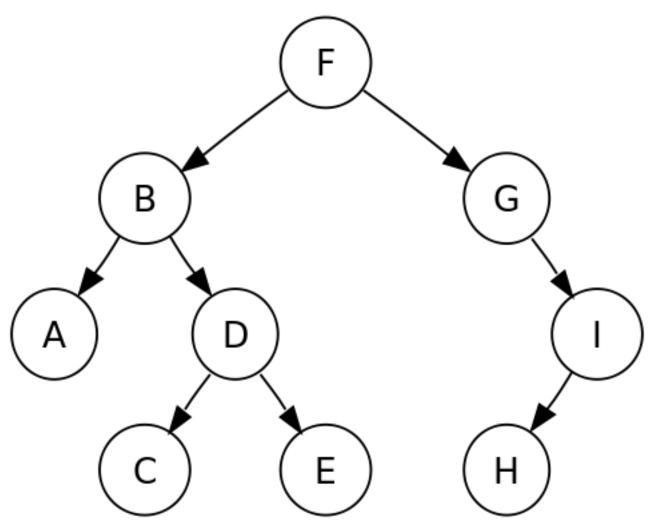
HTTP://GOCODENOW.COM



- 1) Binary search tree is faster to keep a sorted list.
- 2) It does this by always keep the tree balanced.
- 3) Each node has two children, left and a right.
- 4) Left is "lower" than that node.
- 5) Right is "higher" than that node.









Inorder: Go left

Print value

Go right

Preorder: Print Value

Go left

Go right

Postorder: Go left

Go right

Print value



Binary Search Tree Big O

Average:

Lookup: O(log(n))

Insertion: O(log(n))

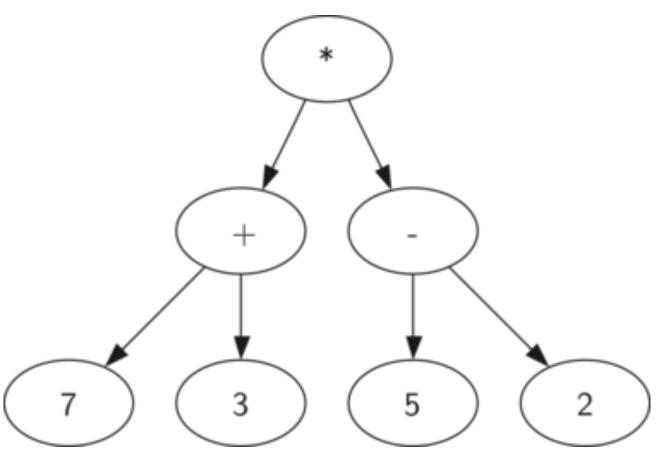
Worst Case:

Lookup: O(n)

Insertion:O(n)



Parse Tree



- 1)A filesystem is just a tree
- 2) Fast lookups, but slower inserts
- 3)Many class of problems map to trees



Key Points

