Kevin's BST Write up

Height balancing Thee:



=balanced = RST.

Athis is a simple note / observations. regulary BBSTs.

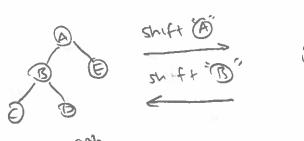
For binary search thees, search time is best when the thee is not degenerate it when the height level between leaves is not greater than one.

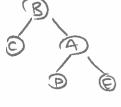
Here, we can observe a balanced tree, where the difference is = 1 from level 2 and level 3 weights.

Traditional 1357 will have a most case efficiency of O(n), wen the tree is degenerate.

therees, when balanced. The efficient will decrease of the even distributions.

The algorithm for balancing trees is relatively intuitive we can approuch each put() and helete() call with a correction after to balance the height. For instance.





two utility furching to help balancing.

Each free can be broken down into was previously bolanced right 8 a 3 PD are minors.

right &

this position.

4 types assuming the tree

For these trees, we can balance then by 2 or 2 shifts to balance Her as such

