

The max height for b Trees are logs n, while the max height for 2-3-4 trees are loggen. The RB Tree

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always has a height of (log 2 n) +1.

- BST with the same input

First let of BST.

Set 1: Gave an almost complete tree with a max height of 4,
worse out of the 4.

Set 2: Gave a complete degenerate tree with a height of O(n).

and 3 More worse than the other types of frees.

- The time complexities of all advanced trees are o(log n) for all those operations. Compared to BSTs, its time complexity for all operations are o(log n) as well, however because it is not a suff balancing tree, its worse case is o(n).
- e Either 2-3-4 or block trees are easier to implement. This is due to only having to split the nodes when it is full compared to PB tree as it has a few cases to consider.
- · PB Tree

-2-5,4

- Block trees

5,10,15,20,35,40,50,65,95