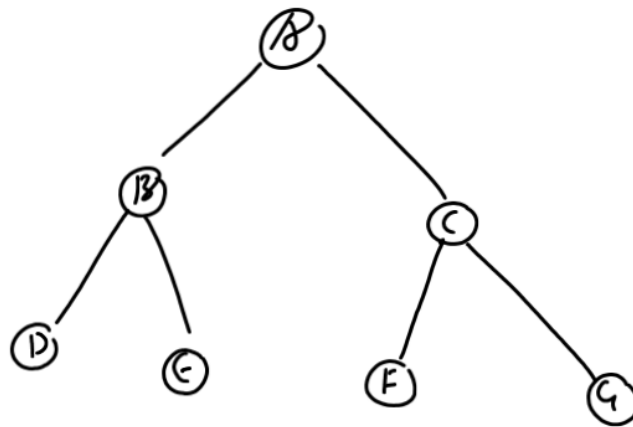


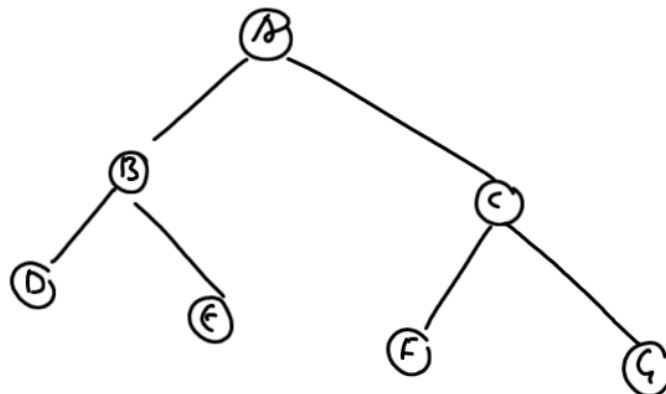
DRAWING A BINARY TREE USING TRAVERSAL ORDER



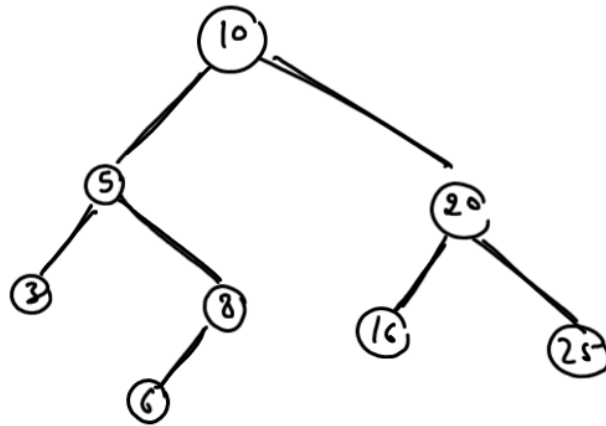
Pre: A, B, D, E, C, F, G (Root, Left, Right)

In: D, B, E, A, F, C, G (Left, Root, Right)

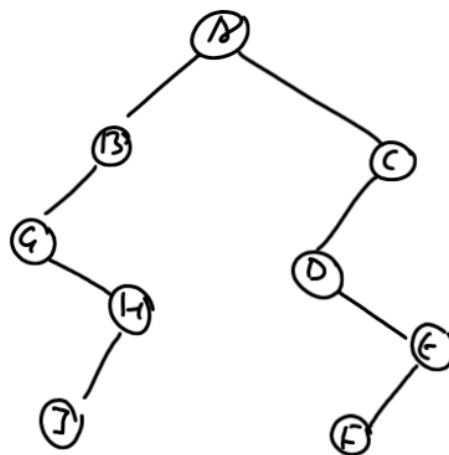
$\underbrace{\quad}_{LC}$ \cdot $\underbrace{\quad}_{RC}$ $\underbrace{\quad}_{RC}$



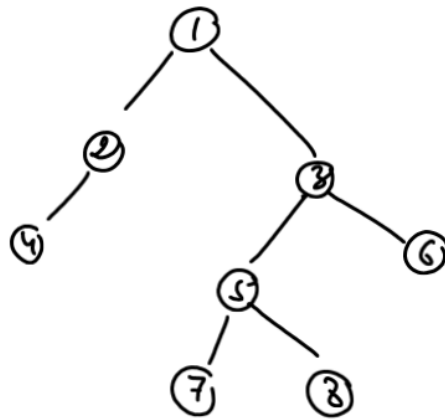
PREORDER: 10, 5, 3, 8, 6, 20, 16, 25 (Root, Left, Right)
 INORDER: 3, 5, 6, 8, 10, 16, 20, 25 (Left, Root, Right)



PREORDER: A, B, G, H, I, C, D, E, F
 INORDER: G, I, H, B, A, D, F, E, C



POSTORDER: 4, 2, 7, 8, 5, 6, 3, 1 (Left, Right, Root)
 INORDER: 4, 2, 1, 7, 5, 8, 3, 6 (Left, Root, Right)



POSTORDER: 4, 5, 2, 6, 7, 3, 1
 INORDER: 4, 2, 5, 1, 6, 3, 7

PREORDER: A, L, G, O, R, I, T, H, M, S
 INORDER: G, L, R, O, I, A, H, T, M, S

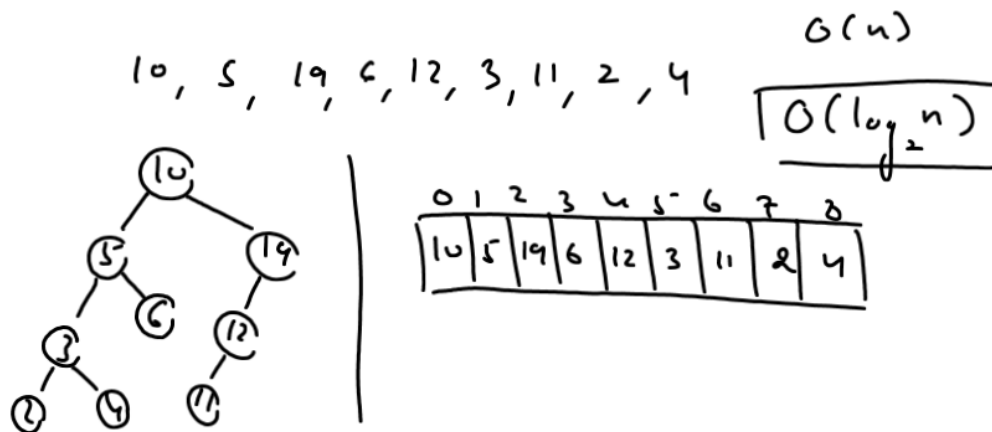
PREORDER: P, A, S, T, Q, E, D, X, M, R, C, F
 INORDER: T, S, Q, A, E, D, P, M, X, C, R, F

PREORDER: 16, 14, 8, 2, 4, 7, 1, 10, 9, 3
 INORDER: 2, 8, 4, 14, 1, 7, 16, 9, 10, 3

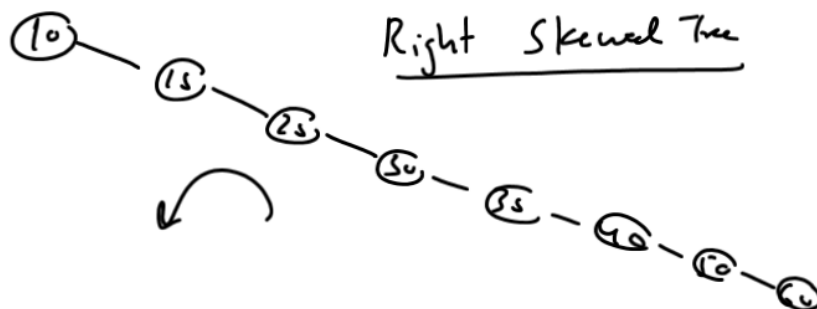
AVL TREE (Height Balanced Tree)

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Qn, What is the benefit of a BST over an ARRAY ?



10, 15, 25, 30, 35, 40, 50, 60



BF

-1, 0, +1