## DSA\_Quiz\_5\_6/4/2021

* T	his form will record your name, please fill your name.
1.	How many BSTs can be possible from 3 unique keys? (1 Point)
2.	Consider the following preorder traversal sequence of a BST.:
	40, 36, 12, 15, 17, 85, 45, 50, 87, 95, 90
	Find the postorder traversal. (2 Points)
	17,15,12,36,50,45,95,90,87,85,40
	17,15,12,36,50,45,90,95,87,85,40
	17,15,12,36,45,50,90,95,87,85,40
	17,15,12,36,50,45,90,95,85,87,40

rotations are performed while inserting keys in the given sequence? (Count double rotation as single one)  (2 Points)
○ 3
○ 2
○ 1
4. In the previous example, what will be left child of 45 after first rotation? (1 Point)
○ NULL
O 13
○ 20
5. An AVL tree is created from the given keys: 13,34,12,40,37,15. If tree is represented using sequential representation, what will be the sequence? (2 Points)
34,13,37,12,15,-,40
34,13,12,15,40,37,-
13,12,-,15,37,34,40
13,12,-,15,34,37,40

What is the maximum height of any AVL-tree with 12 nodes? (2 Points)
○ 3
O 2

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