

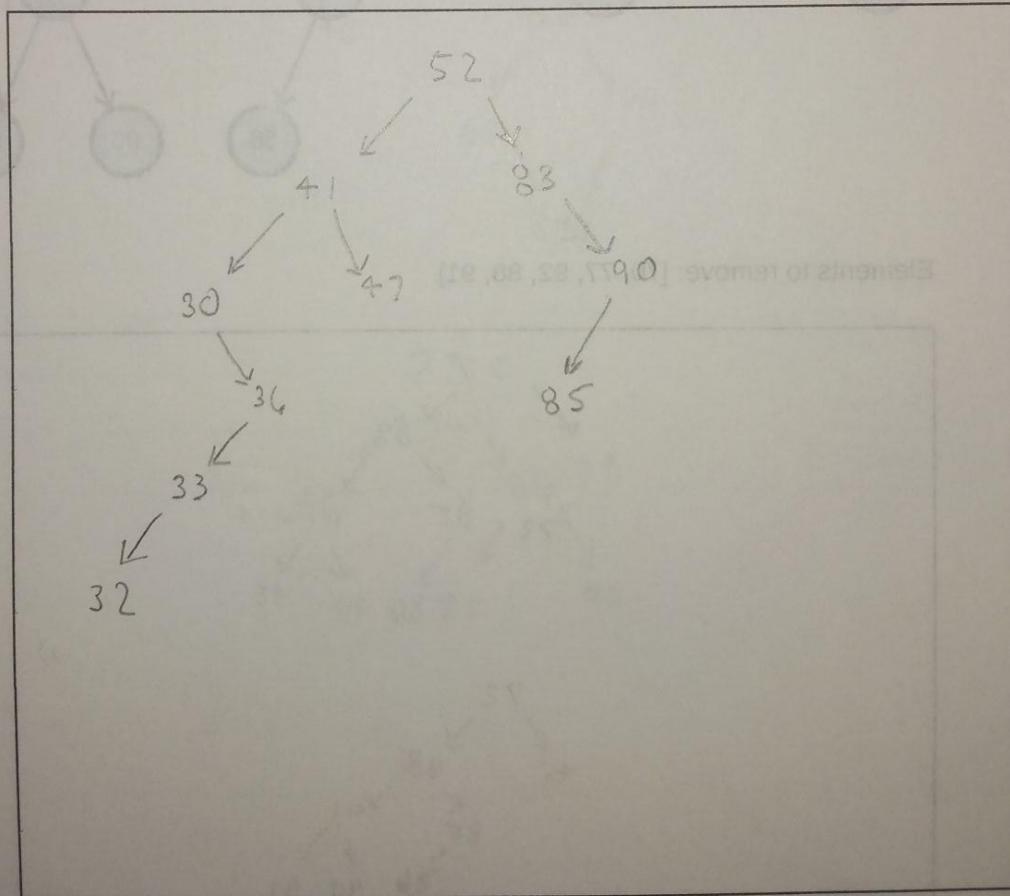
PA 6 Part 1: BST Worksheet

DSC 30 Fall 2021

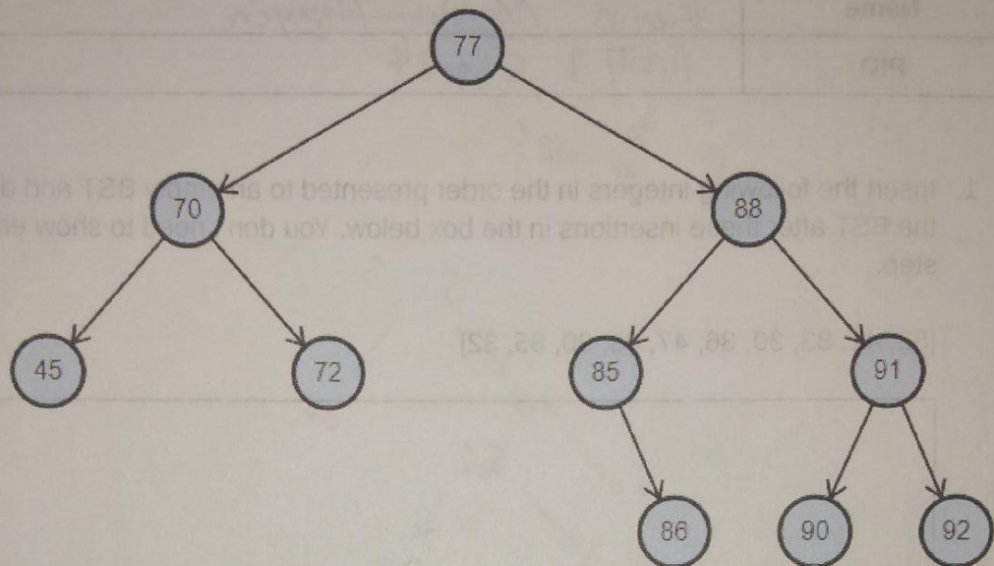
Name	Kevin Morales-Nguyen
PID	A171 86624

1. Insert the following integers in the order presented to an empty BST and draw the BST after these insertions in the box below. You don't need to show each step.

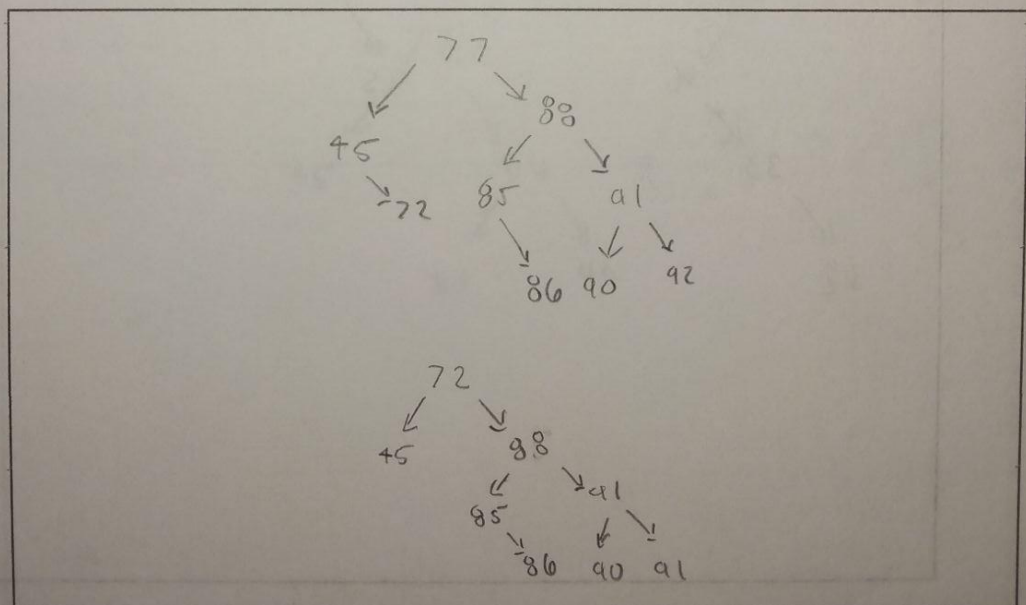
[52, 41, 83, 30, 36, 47, 33, 90, 85, 32]

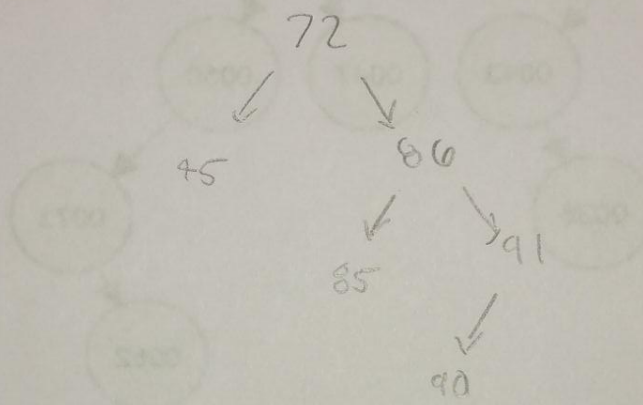
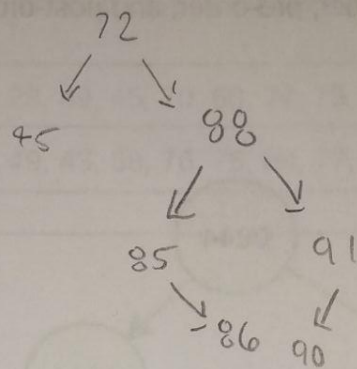


2. Remove the following integers in the order presented from the given BST and show each step of removal by drawing the BSTs after each step of removal in the box below (i.e. 5 trees in total). When removing a node with 2 children, you must replace it with its **in-order predecessor** to get credits.

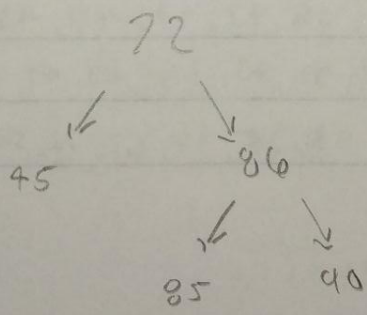


Elements to remove: [70, 77, 92, 88, 91]

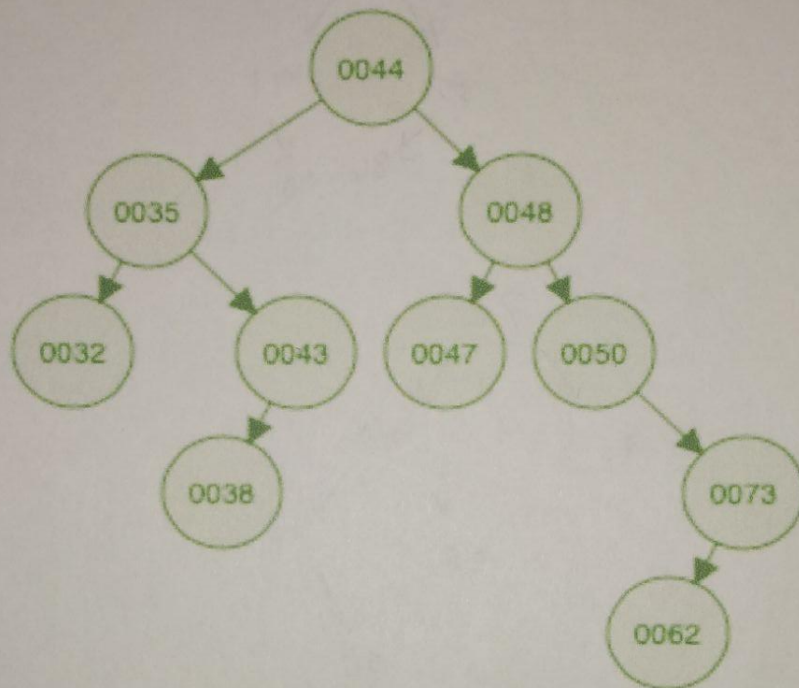




	in-order
	Pre-order
	Post-order



3. Write down the in-order, pre-order, and post-order traversal output of the following BST.



In-order	32, 35, 38, 43, 44, 47, 48, 50, 62, 73
Pre-order	44, 35, 32, 43, 38, 48, 47, 50, 73, 62
Post-order	32, 38, 43, 35, 47, 62, 73, 50, 48, 44

left
right
print