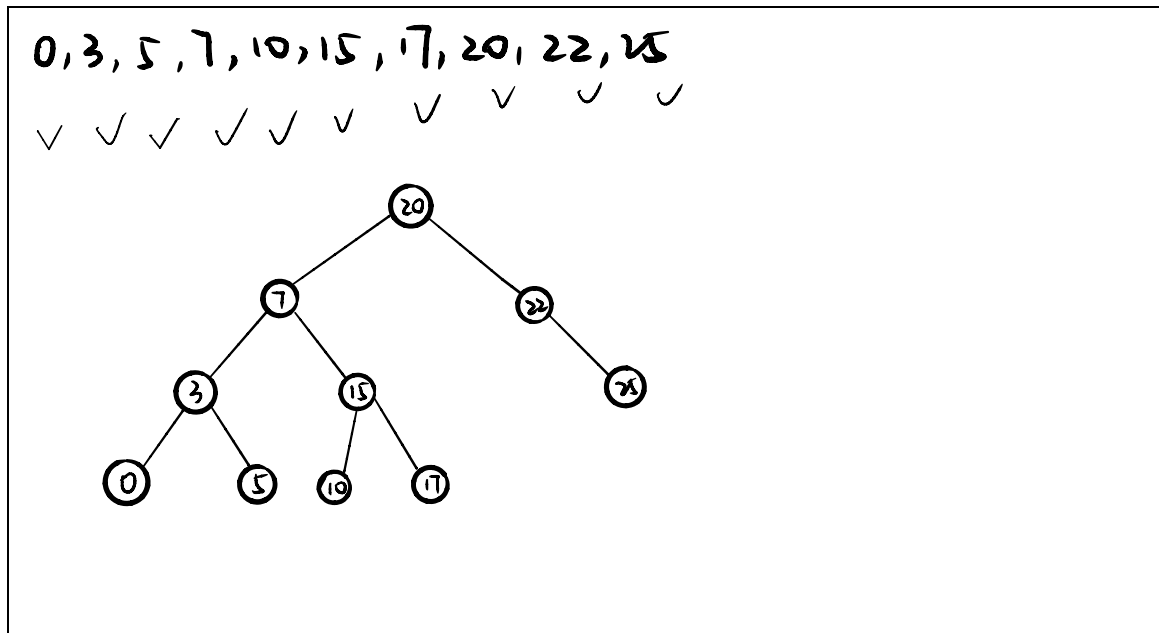
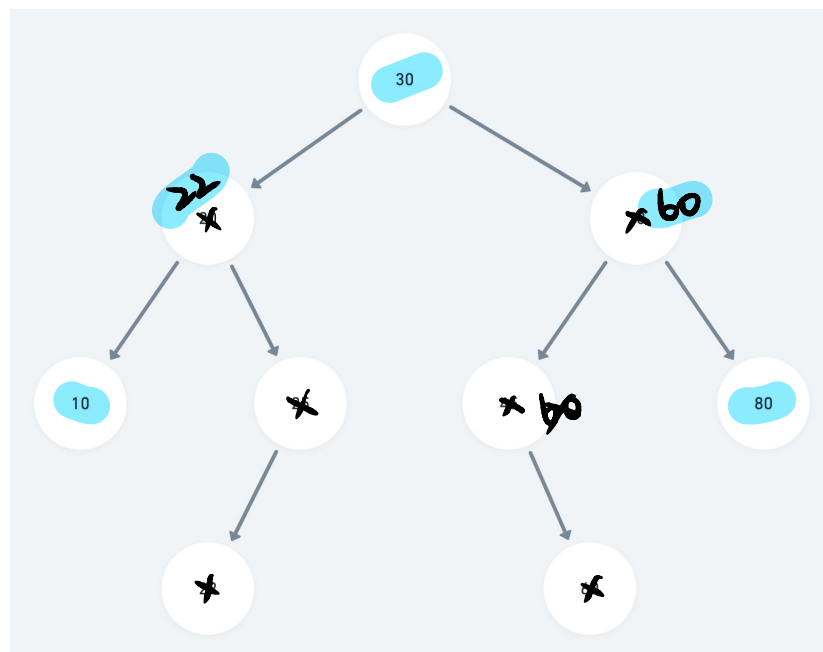


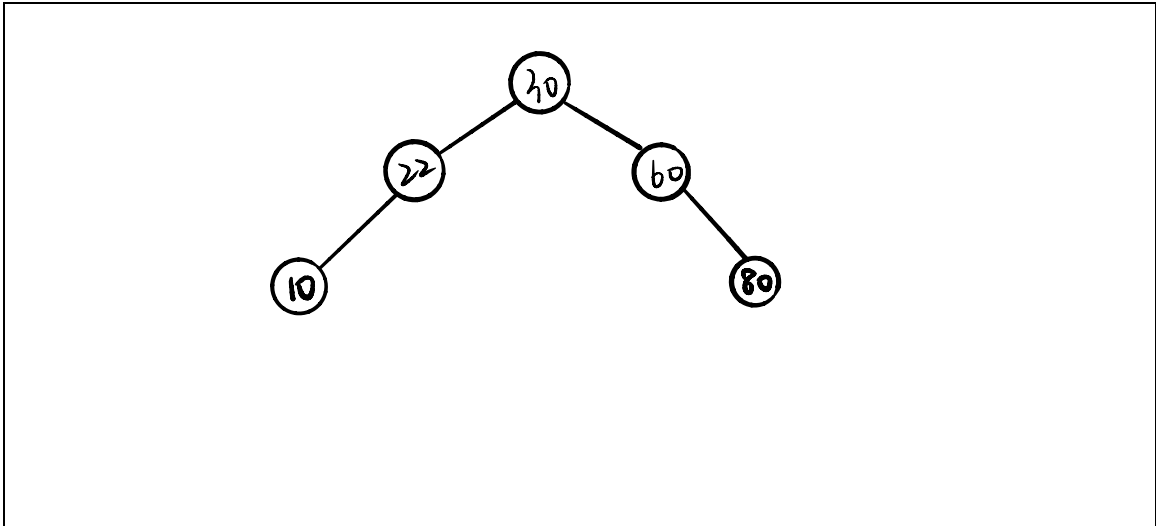
In this assignment you will show your knowledge of BSTs. No code is needed. Just draw the proper diagrams.

- 1) Insert the following integers in the order presented to an empty BST. [10, 20, 15, 25, 5, 0, 7, 22, 17, 3]. (Draw Tree Below)

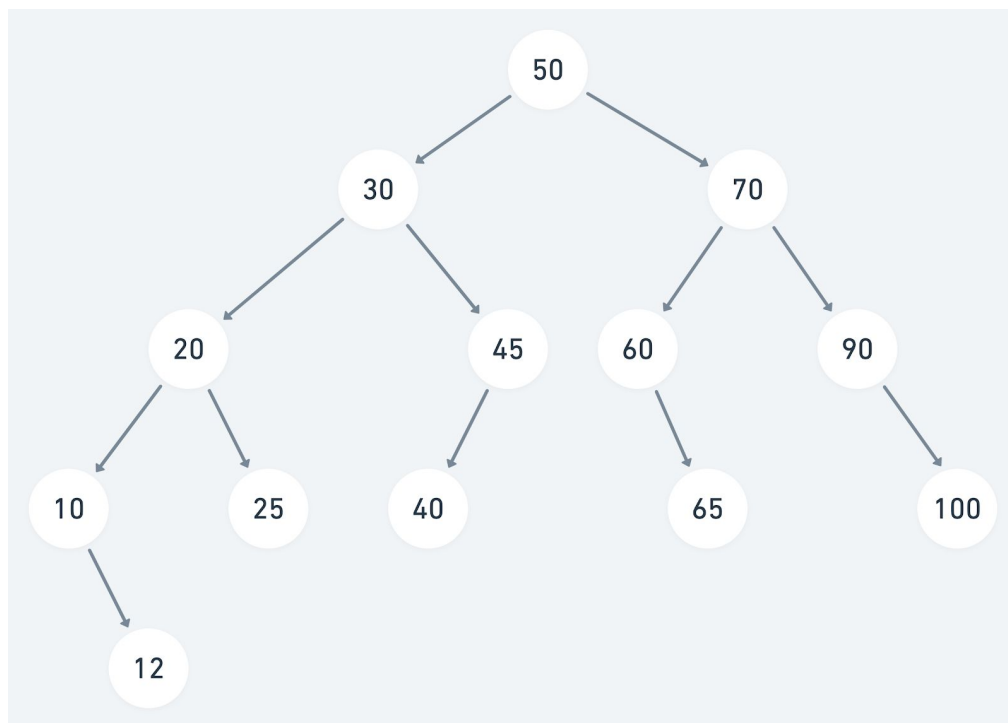


- 2) Given the following BST, remove integers in the following order: [20, 45, 70, 25]





3) Given the following BST, provide the inorder, preorder, and postorder traversal output.



Inorder: 10, 12, 20, 25, 30, 40, 45, 50, 60, 65, 70, 90, 100

Preorder: 50, 30, 20, 10, 12, 25, 45, 40, 70, 60, 65, 90, 100

Postorder: 12, 10, 25, 20, 40, 45, 30, 65, 60, 100, 90, 70, 50

4) (Extra Credit) Given the following preorder and inorder results from a BST, generate the original BST.

Preorder: [30, 20, 10, 5, 15, 25, 40, 35, 32, 60]

Inorder: [5, 10, 15, 20, 25, 30, 32, 35, 40, 60]

