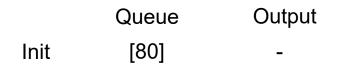# Worksheet CS165:  Binary Search Trees

1. Stepwise build a BST from 80, 20, 100, 10, 40, 90, 30, 50, 35

2.  Give the pre-order, in, and post order  traversal of the tree

3. Using "System.*out.println(node.getItem());*"  for a visit,  implement in-order traversal

 **public void inorderTraverse(TreeNode node){**



 **}**

3. Show how the breadth first traversal of the above tree is implemented using a queue:

| | Queue | Output |
|---|---|---|
| Init | [80] | - |

4. The above tree is a binary search tree (BST). Redraw the above BST after 95 is added and 20 is deleted. Show both possible results.