Data Structures and Algorithms

Tut 6 – AVL, Multiway Trees

1. Construct an AVL tree by inserting one by one elements as follows:

   20, 12, 44, 35, 75, 21, 30, 33, 87, 6, 91, 15, 69

2. Remove elements of AVL tree in question 1 step by step:

   75, 44, 69, 87, 91, 20

3. Construct a B-tree by inserting one by one elements as follows:
   20, 12, 44, 35, 75, 21, 30, 33, 87, 6, 91, 15, 69

4. Remove elements of B-tree in question 3 step by step:

   44, 33, 69

5. What is the complexity of operations inserting and deleting one node in AVL, B-tree? Compare with same operations in BST.