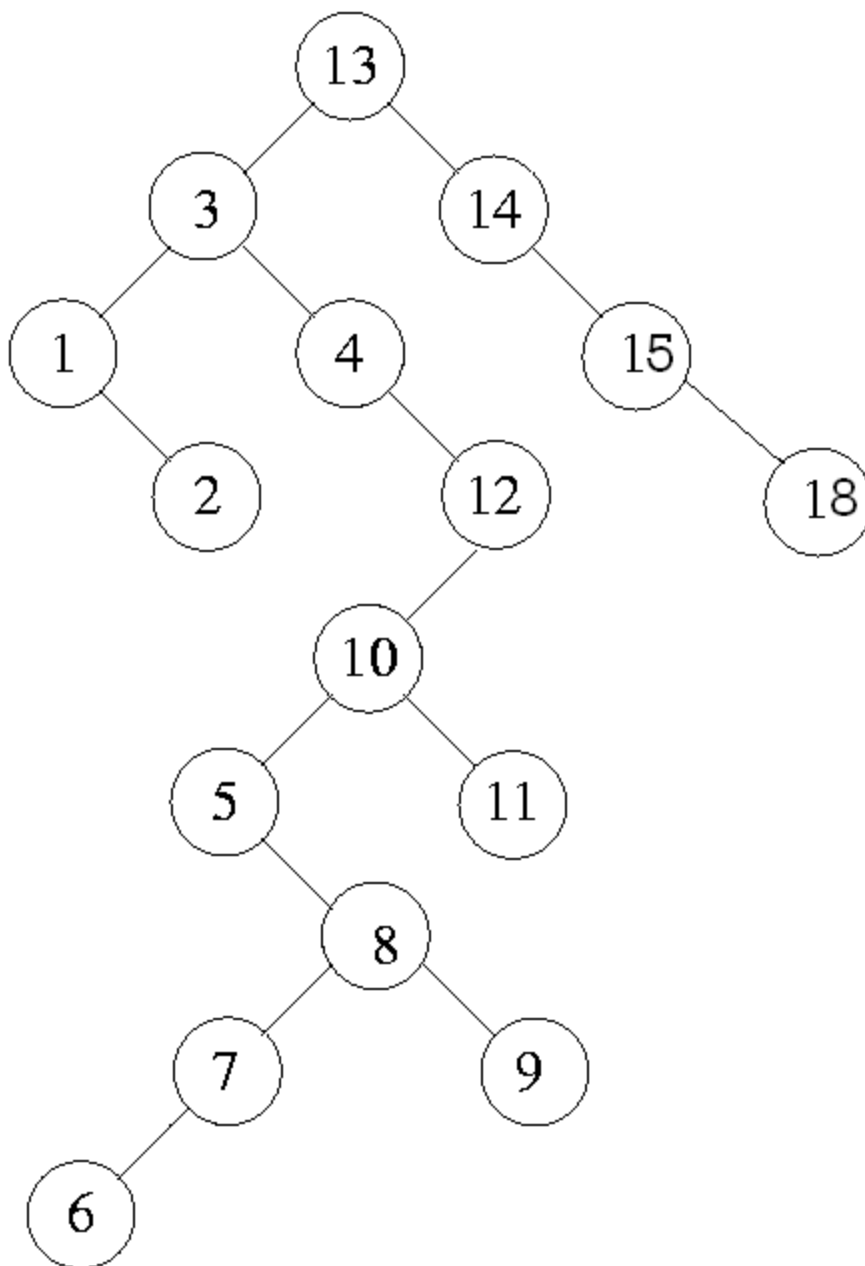Consider the following sequence of numbers: [20, 25, 3, 4, 14, 15, 18, 12, 9, 2, 16, 19, 17]

- ■ Construct Binary Search Tree (BST)   [8 marks]
- ■ Perform In-order, Pre-order and Post-order traversal   [6 marks]
- ■ Delete 15 from the above constructed BST   [6 marks]

Solution:

Pre Order Traversal

13, 3,1,2,4,12,10,5,8,7,6,9,11,14,15,18

Inorder Traversal

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,18

Postorder Traversal

2,1,6,7,9,8,5,11,10,12,4,3,18,15,14,13