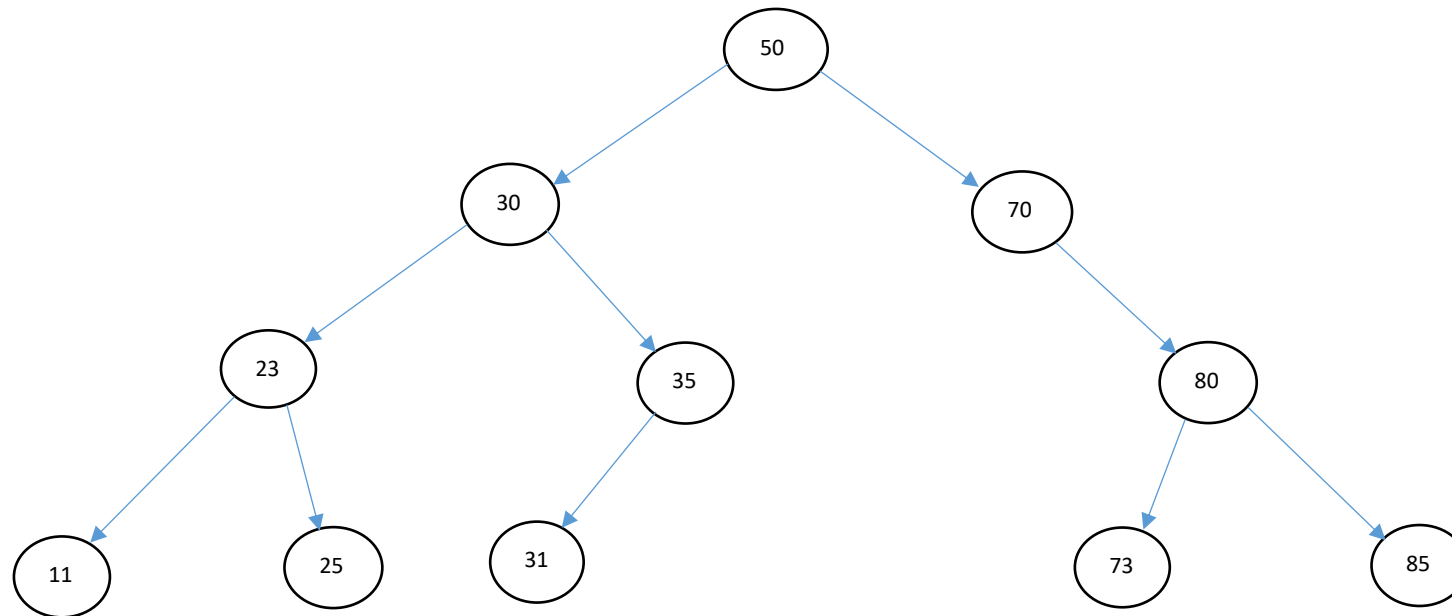


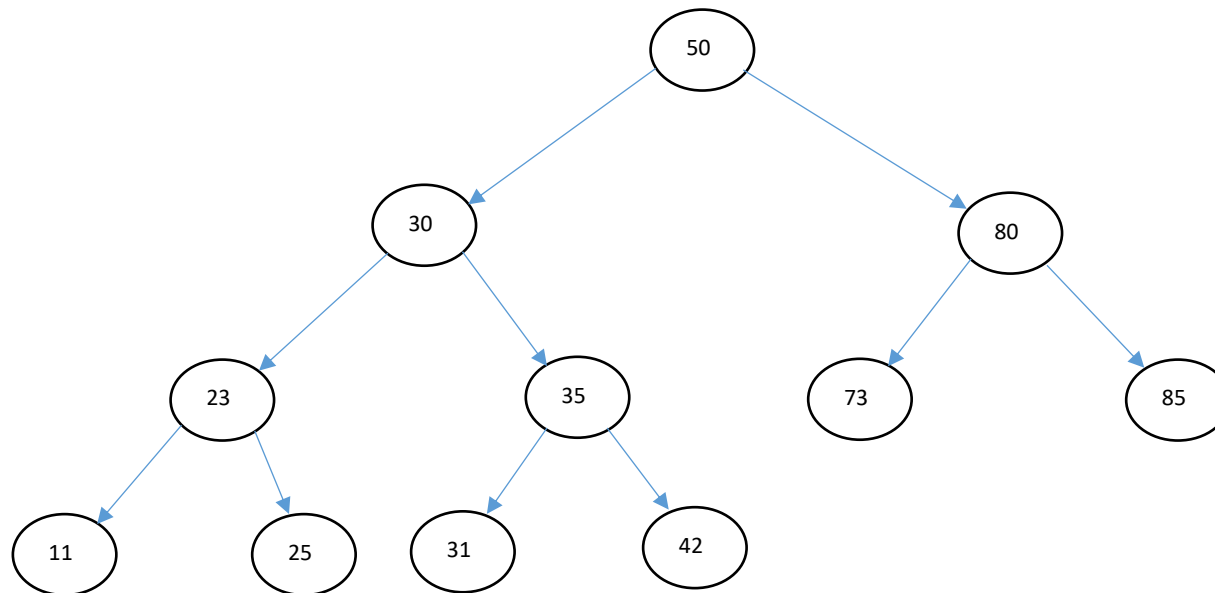
Data Structure

Section 3:

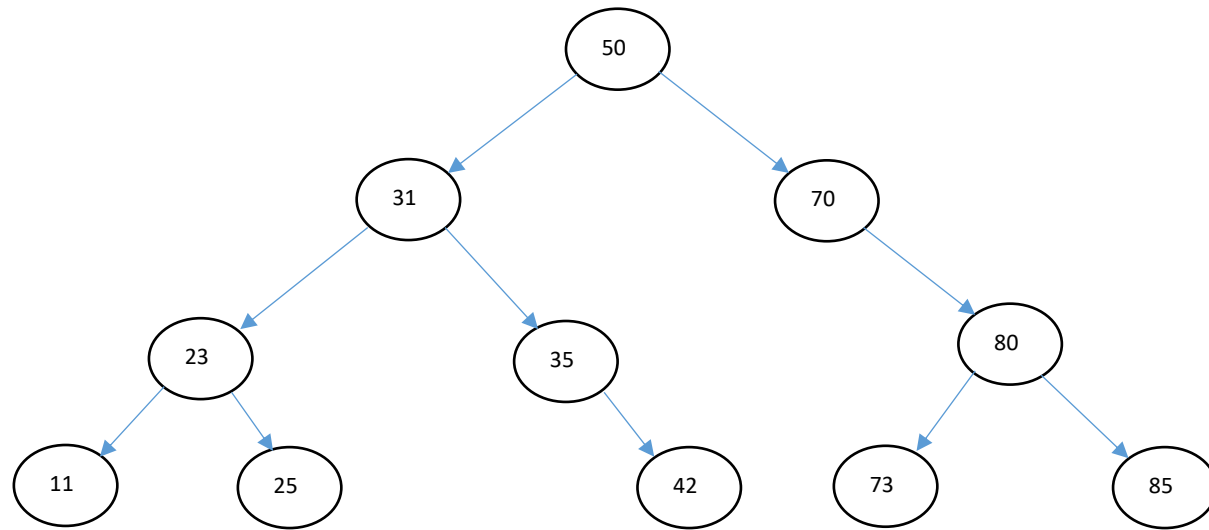
- Problem 1



1. Since node 42 is a leaf node have no childe so we can deleted without needing to any other operations



2. Since node 70 had only right child so:
- We make the right pointer at the 50 points at the 80 node
 - Then we can delete the 70



3. Since node 30 have 2 child so we either choose successor or predecessor

a. We decide to choose predecessor

b. So we go to the right child which is the following sub tree →

c. We choose the minimum which in this case is node 31

d. Then we copy node 31 value to node 30

e. Finally we delete node 31 from the right subtree

