

Assignment

Name:

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Reg

SP22-BCS-004

Section

A.

i) Initialization:-


Node: root = Null; initialize an empty AVL tree.

ii) Insertion

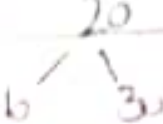
Insert 10:

- The root become 10.

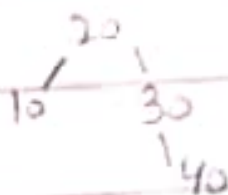
Insert 20

- The ~~root~~ tree become 

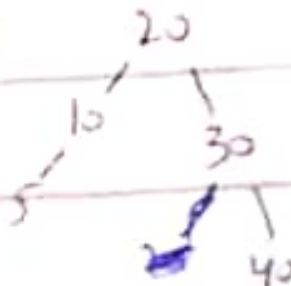
Insert 30

- The tree become 

Insert 40

- The tree become 

Insert 5

- The tree become 

Inorder

In

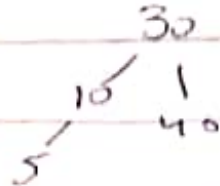
Inorder Traversal:

In order traversal of AVL tree

5, 10, 20, 30, 40

Deletion

• Delete 20: deleteNode(root, 20).



In order traversal after deletion

In order traversal after deletion. 5, 10

30, 40

Search

Search for 50: search(root, 50)

50 not found in AVL tree

Output

The program prints the inorder traversal before and after deletion and indicate whether the search key is not found.