

Homework 1

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- start with an empty BST
- insert 1, 2, 3, 4, 5, 6 (showing what happened)
- then delete 2 (and explain each step)

Process: write pseudocode to insert
write pseudocode to delete
Draw trees

Insert

create or insert node

if no root, set node as root

^{else} set first value in tree as root

if node > root

set node as ^{current value} ~~root~~ value

set root = ^{current value} ~~root~~ value

loop

Else if set ^{current value} ~~node~~ as root, left

loop

If no next value set node as next value

~~Delete~~

Delete

=> create or insert node

=> if no root ~~by make the root~~ return "error"

=> else set first value in tree as root

=> if node \neq root ~~then make the root as root~~

=> Delete root and set root.left as root

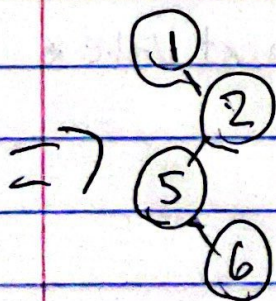
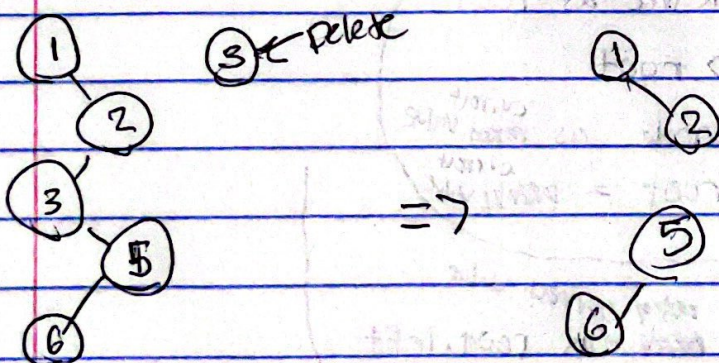
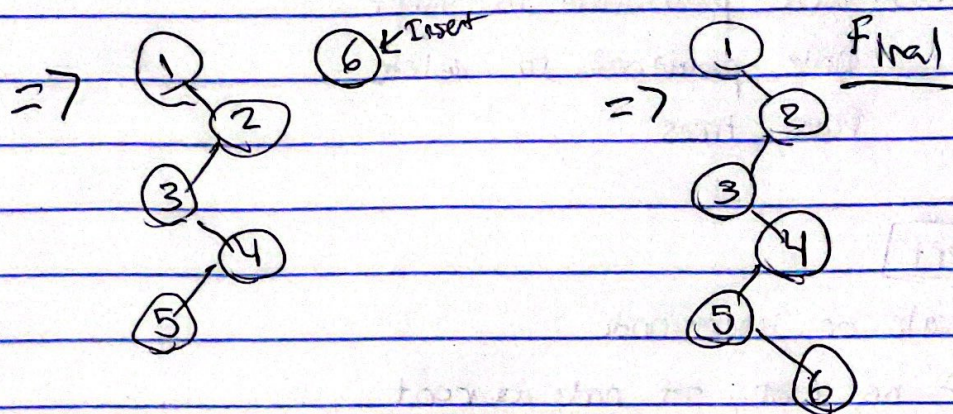
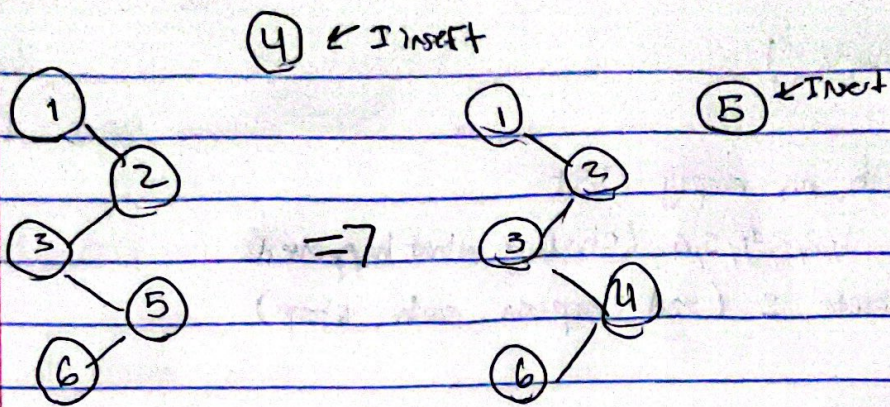
= check next value in tree

=> if node = next value

=> Delete = next value and set as current value

=> move up root by one

Insert



Delete