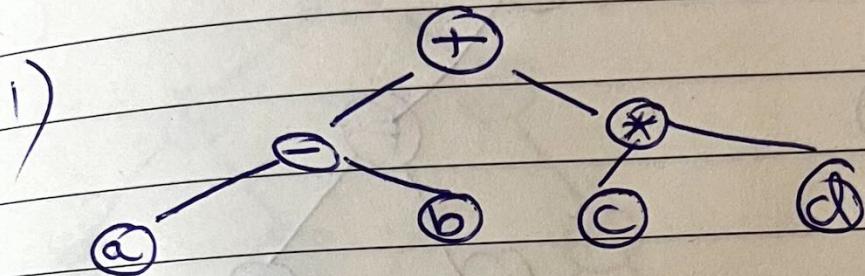


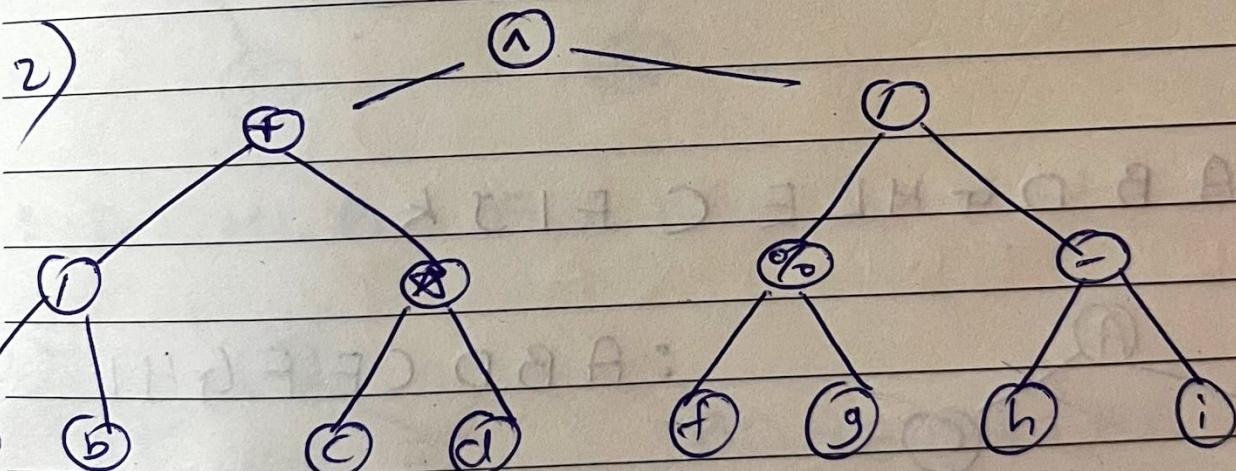
Date / /

★ Tree

1. Pre Order Traversing $\rightarrow N - L - R$



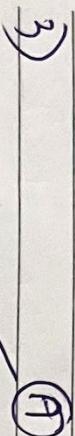
Pre Order traversal: + - a b * c &



: ^ + / ab * cd / % fg - hi

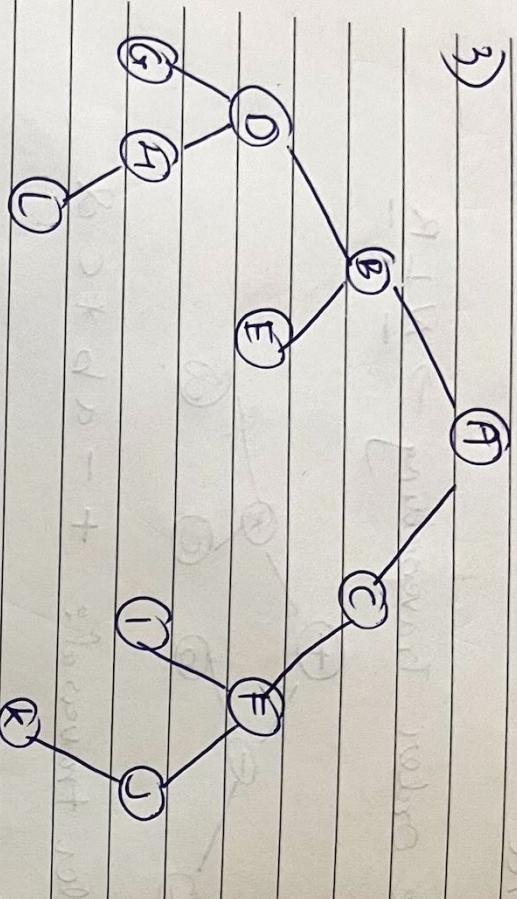
Date / /

Date / /



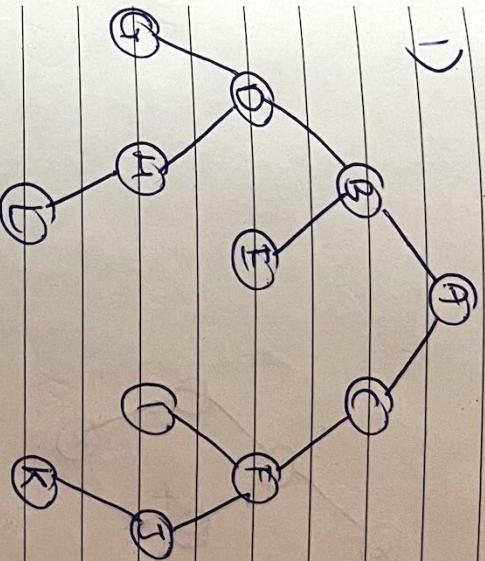
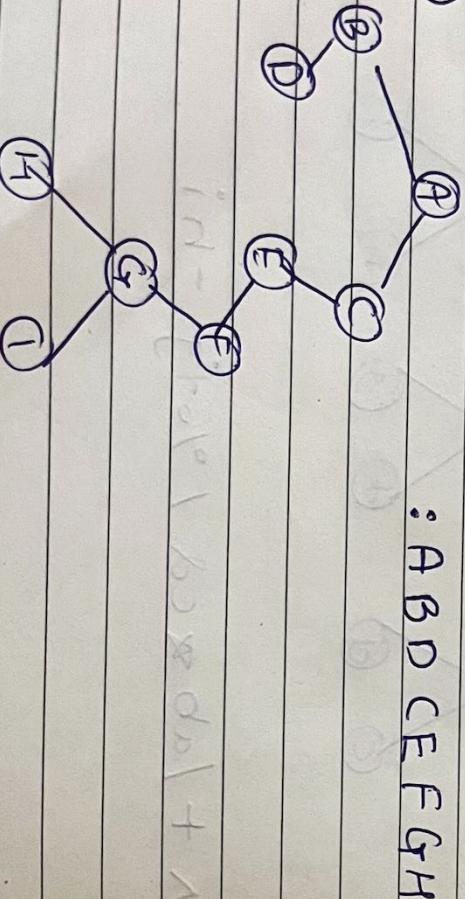
: A B D G H L E C F I J K

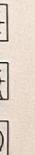
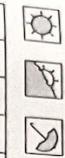
: A B D C E F G H I



: G O R H L B E A C I F K J

: B O A E H G I F C





Mo	Tu	We	Th	Fr	Sa	Su
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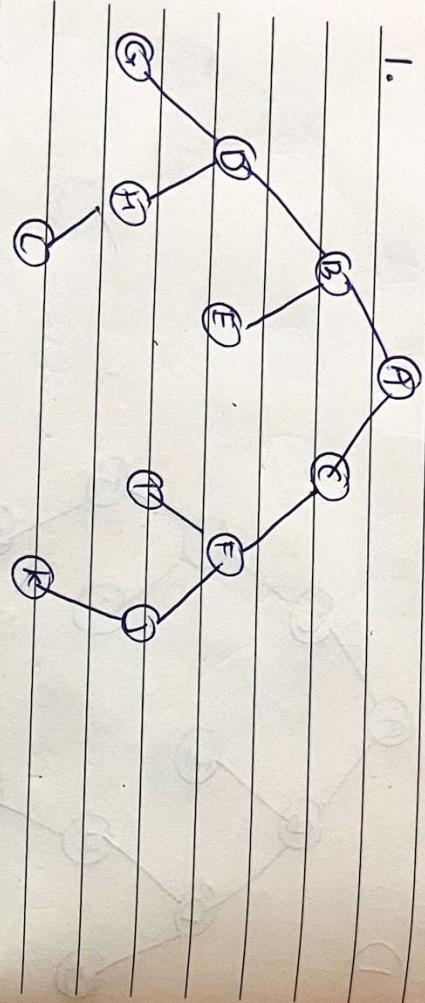
Date / /

Mo	Tu	We	Th	Fr	Sa	Su
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Date / /

3) Post Order : LRN

1.

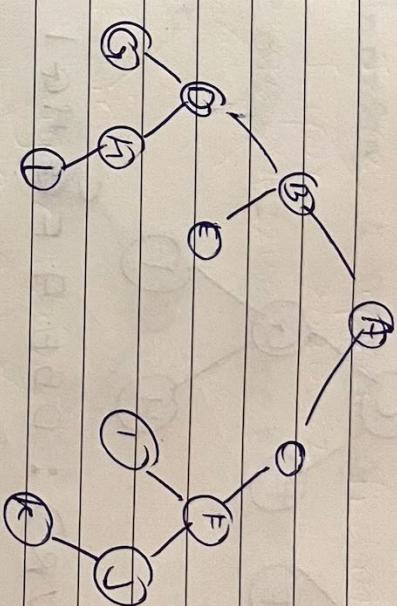


: GLHDEBIKJFC A

2.

: DBHIGFEC A

A B C D E F G H I J L K



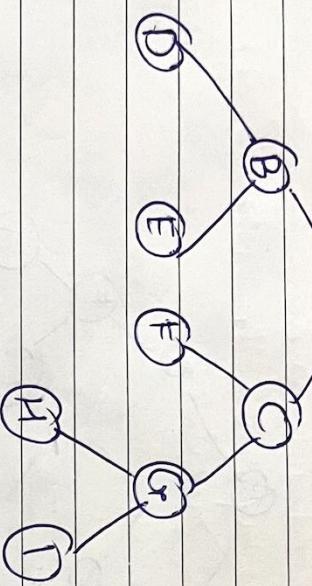
Mo	Tu	We	Th	Fr	Sa	Su
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Date / /

Mo	Tu	We	Th	Fr	Sa	Su
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Date / /

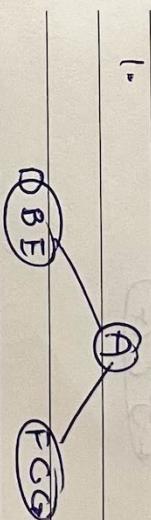
Eg 1)



Inorder (LNR) : DBE A F G C H I

Pre order (CNLR) : A B D E C F G H I

2.



Post order (LRND) : D E B F H I G C A

Inorder (level) : A B C D E F G H I

5. Construction of BT from Travel

1) Inorder : D B E A F C G G H I

Pre order : A B D E C F G G



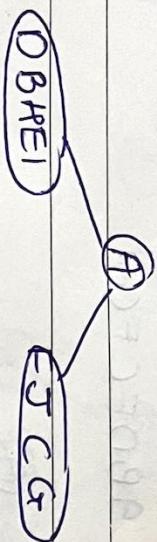
Date / /



Date / /

2) In order : DBHEI A F J C GPost : DBHEI B F G C A

→ 1.

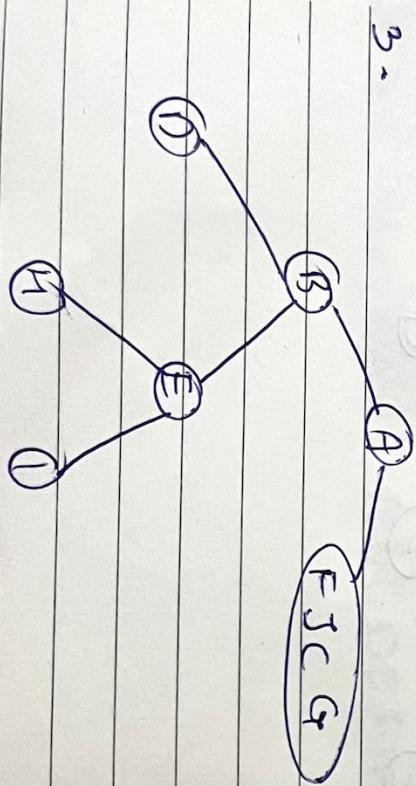


2.

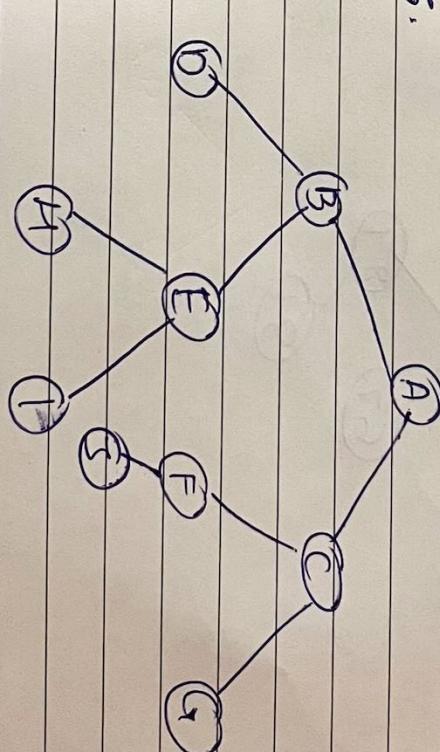
F J C G

3.

F J C G



5.

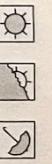
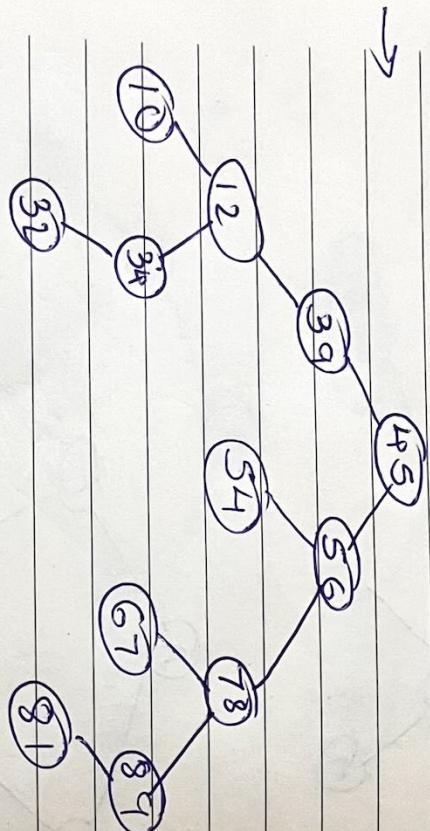




Date / /

6. Create BST

- 1) 45, 39, 56, 12, 34, 78, 32, 10, 89, 54,
67, 81

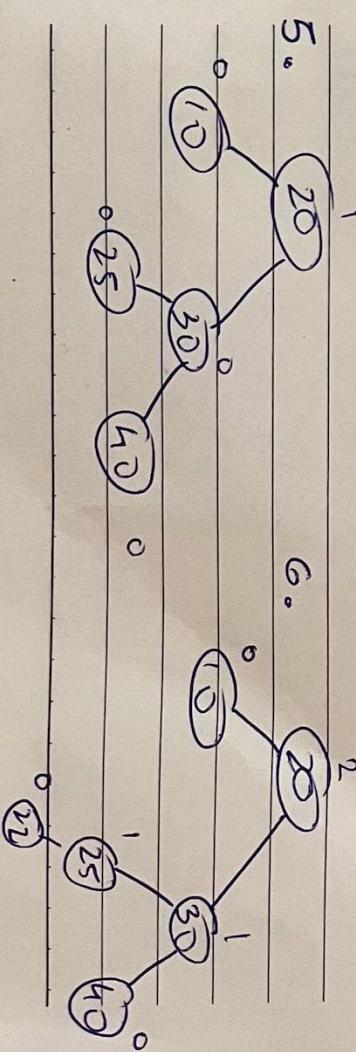
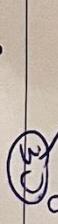
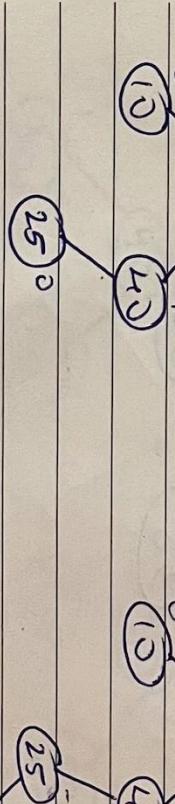
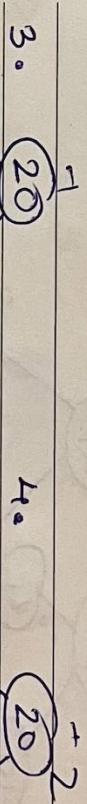


Date / /

7. AVL Tree

- 1) Insertion

Key - 40, 20, 10, 25, 30, 22, 50



1

2

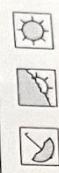
3

4

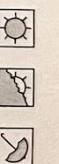
5

6

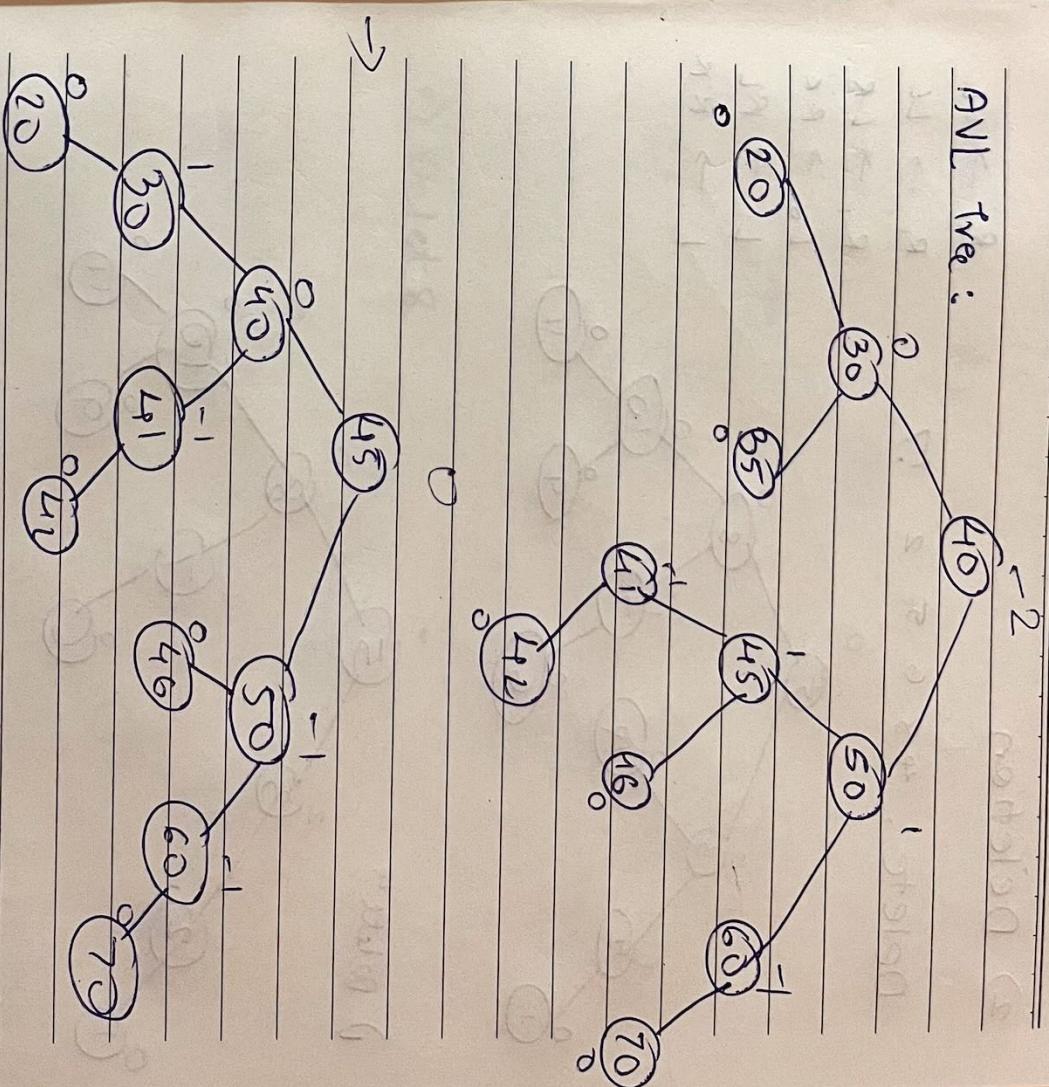
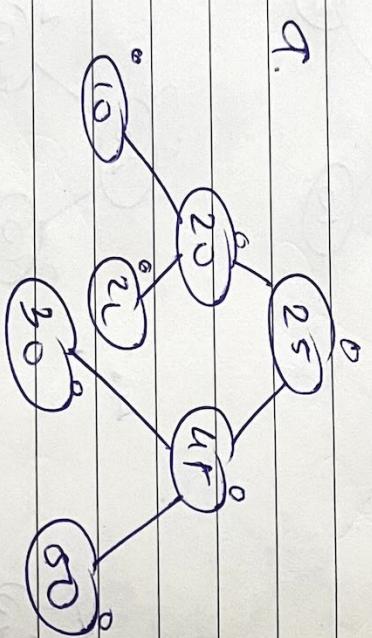
7



Date / /



Date / /





Date / /



Date / /

2) Deletion

Delete, 4 8 6 5 2 17

$R_0 \rightarrow LL$

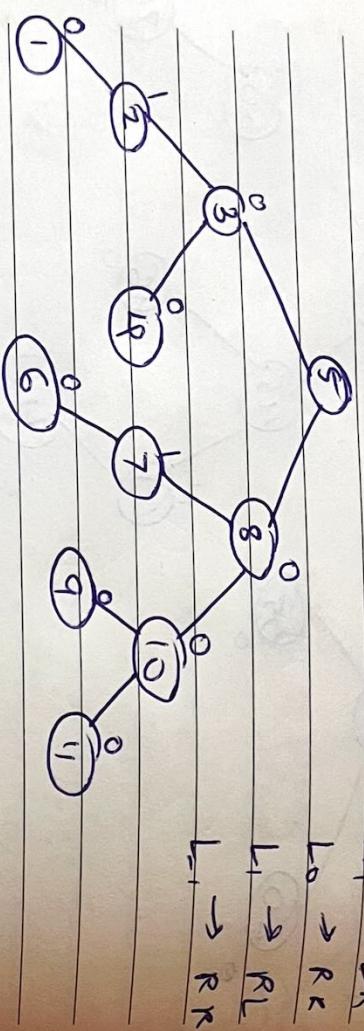
Perform R_0

$R_1 \rightarrow LC$

$L_0 \rightarrow RK$

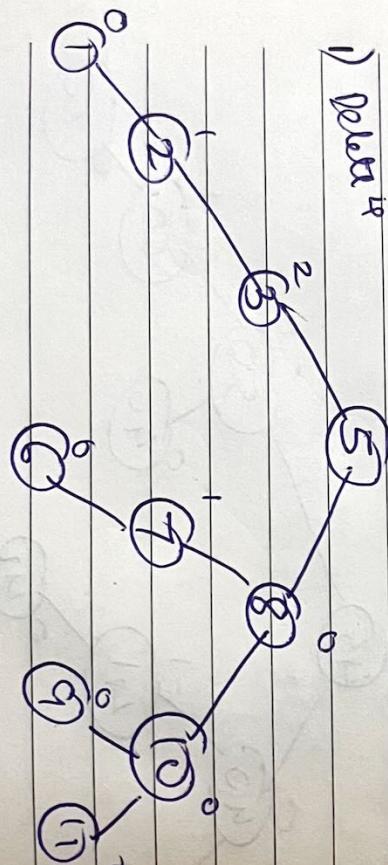
$L_1 \rightarrow RL$

$L_2 \rightarrow RR$

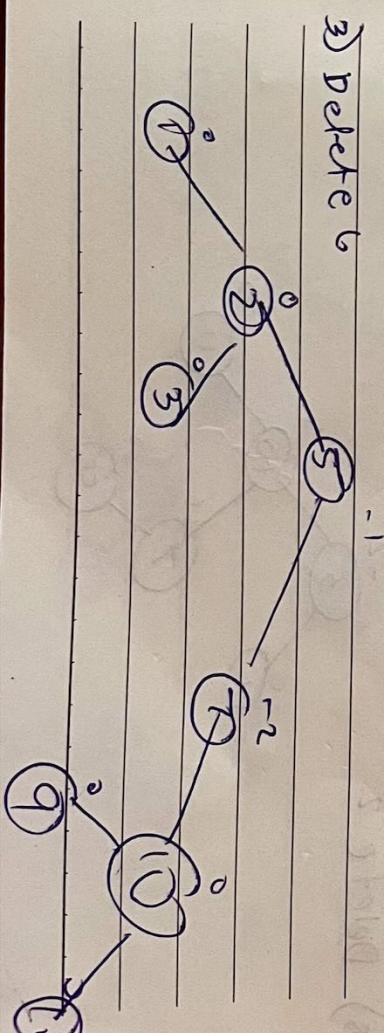


1) Delete 17

2) Delete 8 :



3) Delete 6



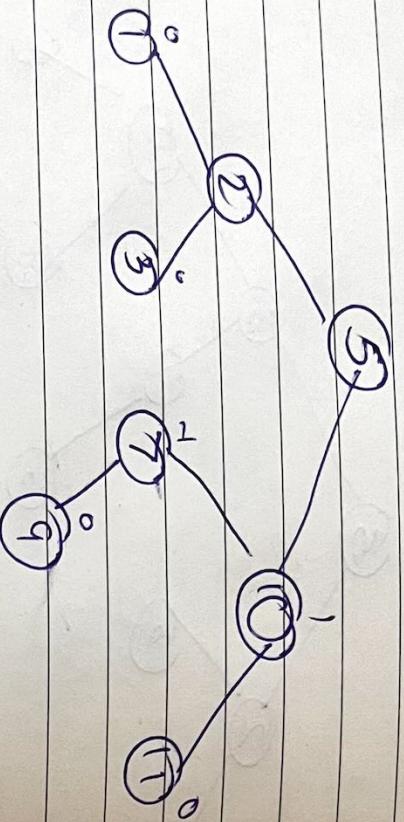
Mo	Tu	We	Th	Fr	Sa	Su
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Date / /

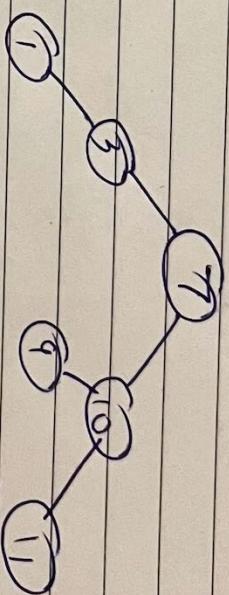
Sun	Mon	Tue
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Date / /

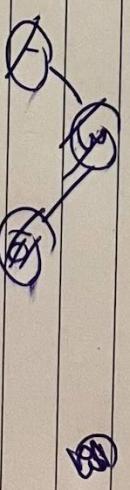
Perform LO -1



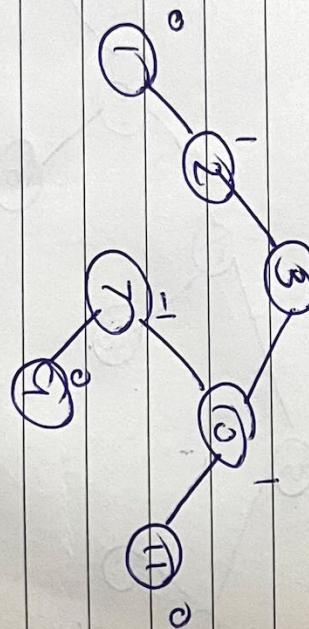
Perform L,



Delete #1



Delete 1

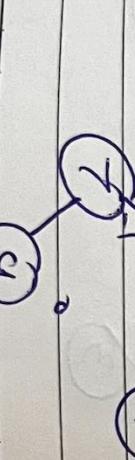


Delete 5

Delete 2



Delete 7



Perform RR



Date / /

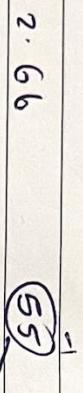


Date / /

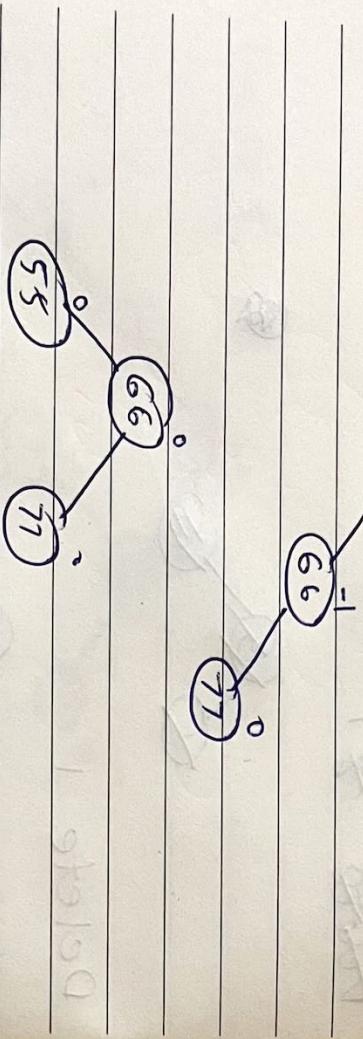
Insertion:

2) 55, 66, 77, 15, 11, 33, 22, 35, 25, 44

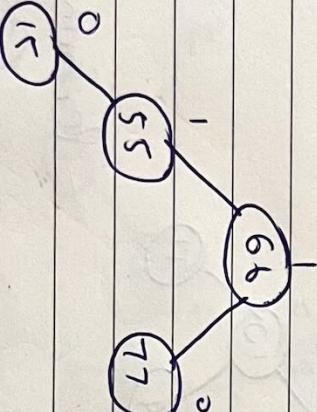
→ 1. 55 (55)



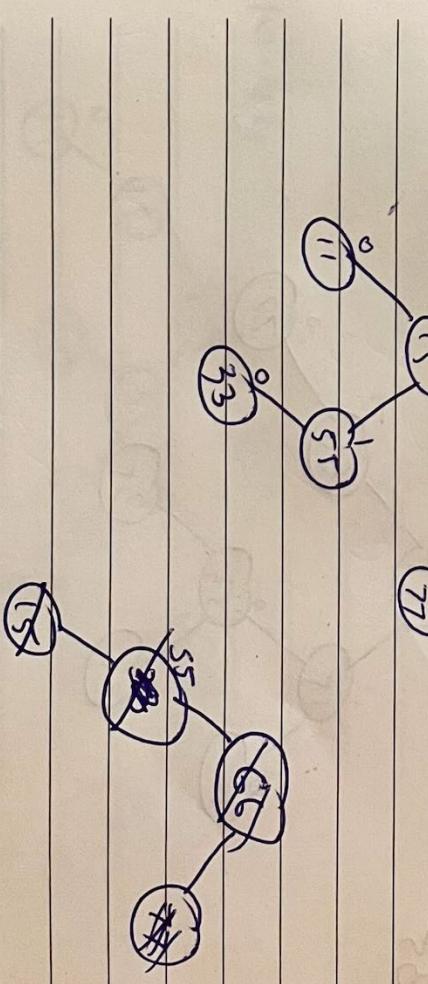
3. 77 (55)



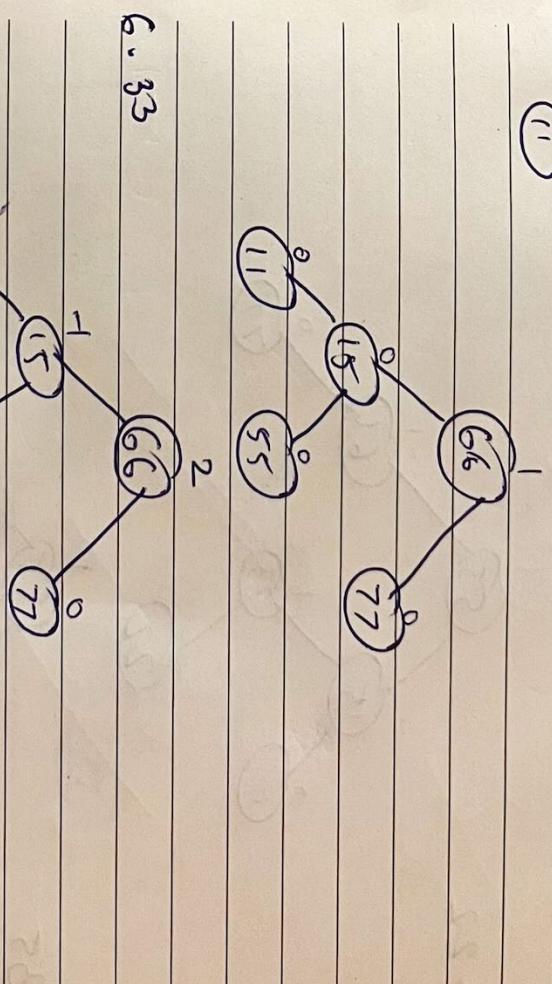
4. 15 (66)



5. 11 (66)



6. 33 (66)



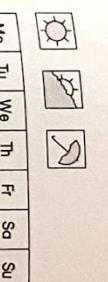
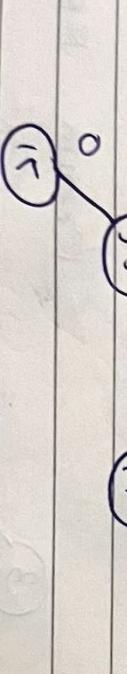
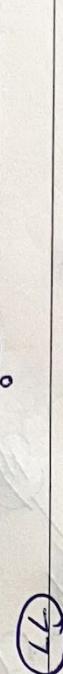
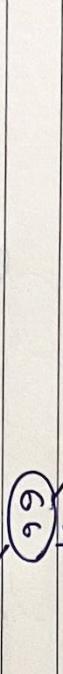
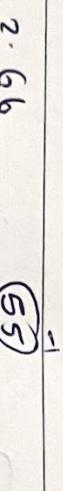


Date / /

Insertion:

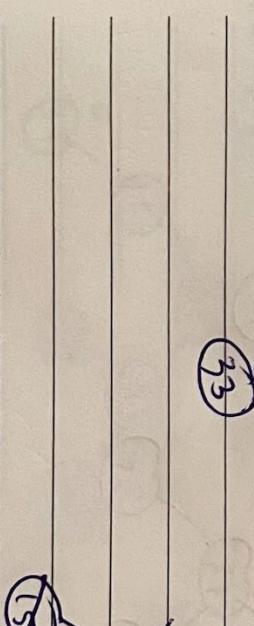
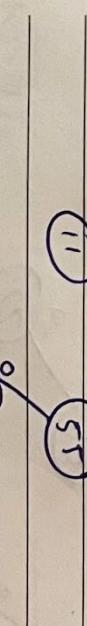
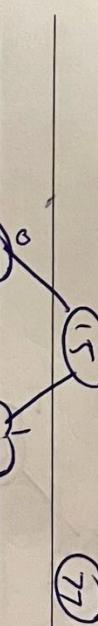
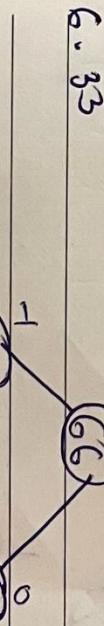
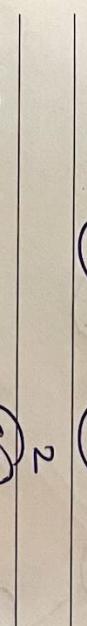
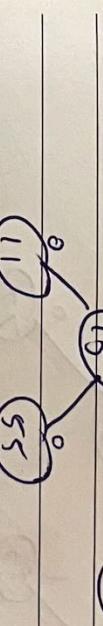
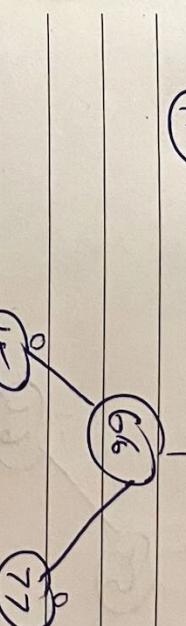
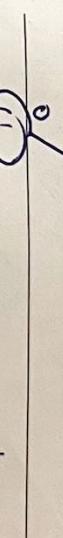
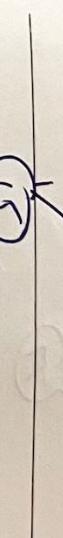
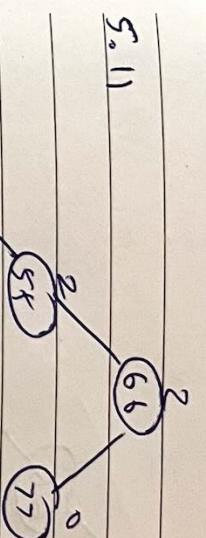
2) 55, 66, 77, 15, 11, 33, 22, 35, 25, 44

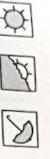
→ 1. 55 (55)



Date / /

5. 11

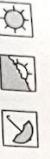




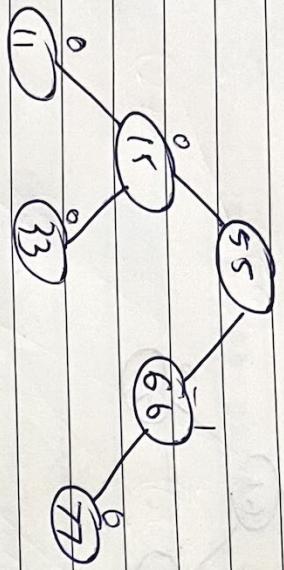
Date / /



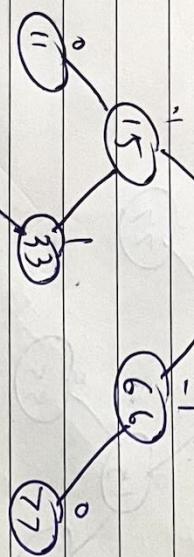
Date / /



Date / /

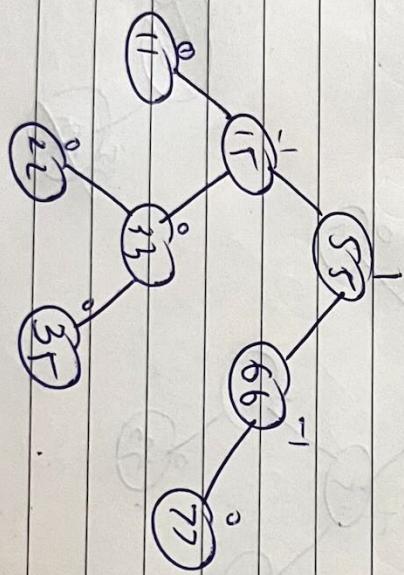


7-22

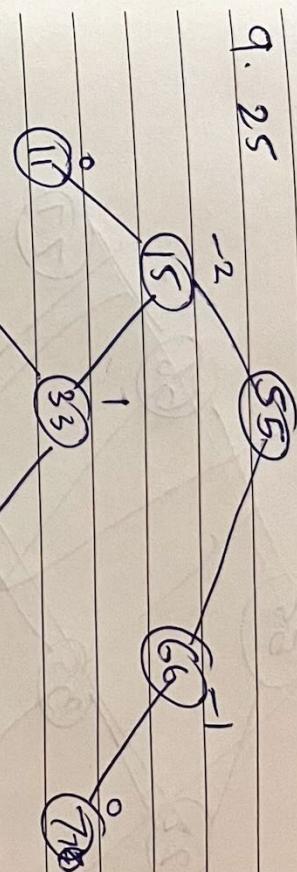


22

8.35

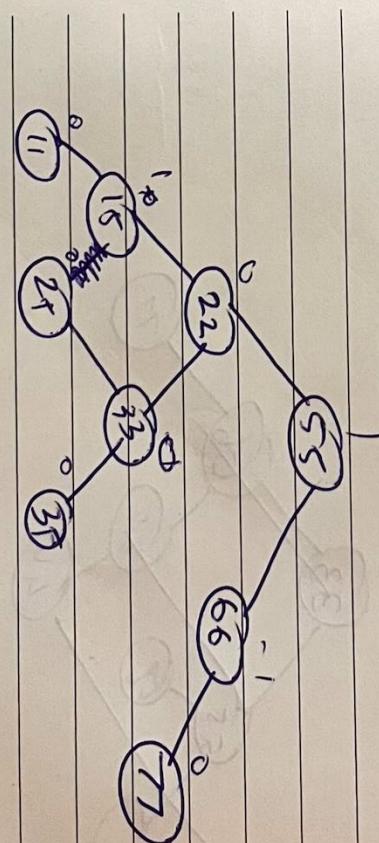


8.35



9. 25

2



10.44

44

Mo	Tu	We	Th	Fr	Sa	Su
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Date / /

