

Tree Simulations

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AVL Tree

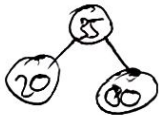
a. [1] Insert 80



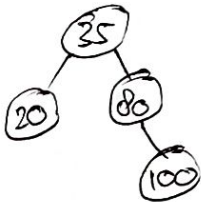
[2] Insert 35



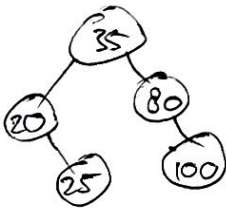
[3] Insert 20



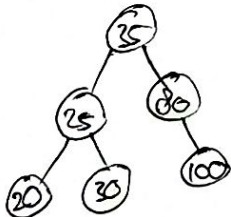
[4] Insert 100



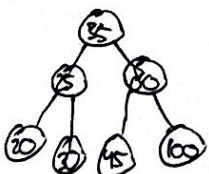
[5] Insert 25



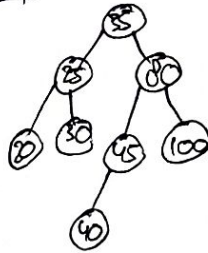
[6] Insert 30



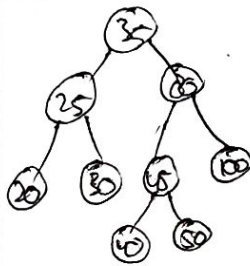
[7] Insert 45



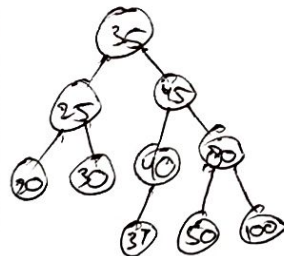
[8] Insert 40



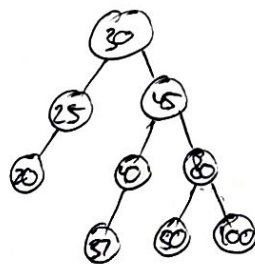
[9] Insert 50



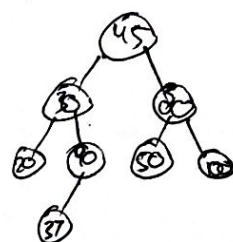
[10] Insert 37



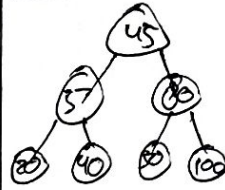
[11] Remove 35



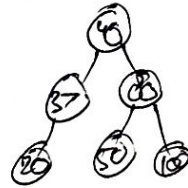
[12] Remove 25



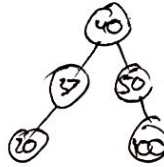
[13] Remove 30



[14] Remove 45



[15] Remove 80



b. [1] Insert 40



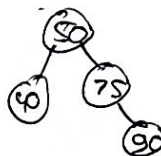
[2] Insert 75



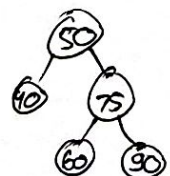
[3] Insert 50



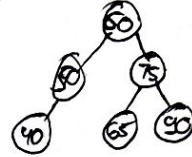
[4] Insert 90



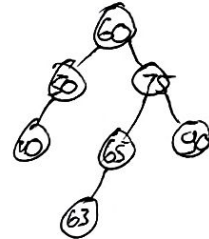
[5] Insert 60



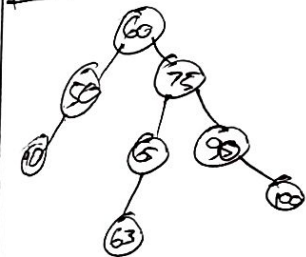
[6] Insert 65



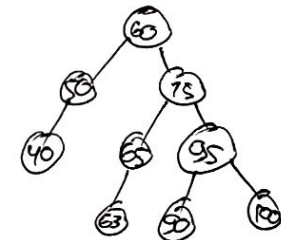
[7] Insert 63



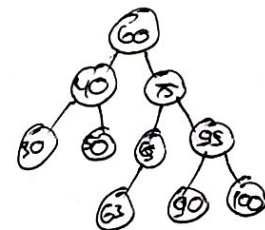
[8] Insert 100



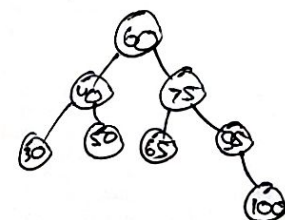
[9] Insert 95



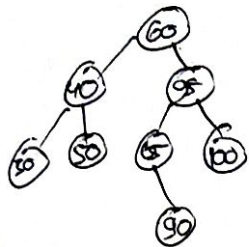
[10] Insert 30



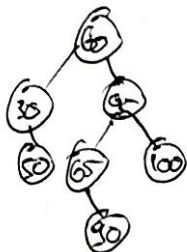
[11] Remove 63



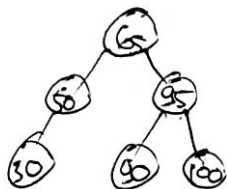
12. Remove 75



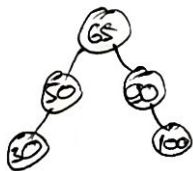
13. Remove 40



14. Remove 60



15. Remove 95

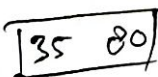


2-3 Tree

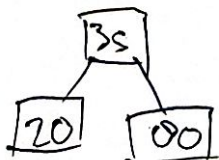
a. 1. Insert 80



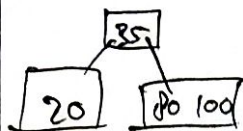
2. Insert 35.



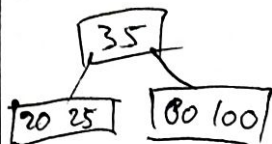
3. Insert 20.



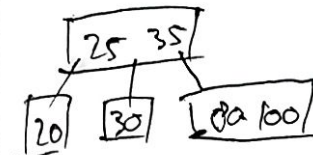
4. Insert 100



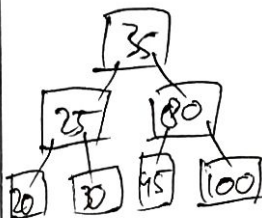
5. Insert 25



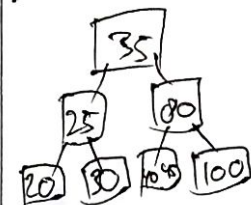
6. Insert 30



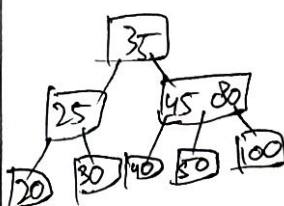
7. Insert 45



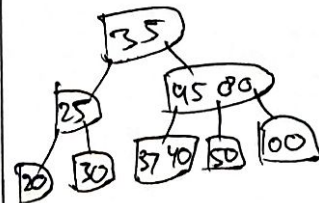
8. Insert 40



9. Insert 50



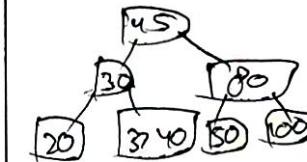
10. Insert 37



11. Remove 35



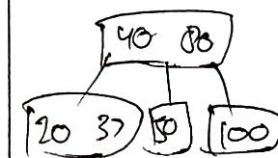
12. Remove 25



13. Remove 30



14. Remove 45



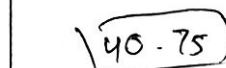
15. Remove 80



16. Insert 40



17. Insert 75



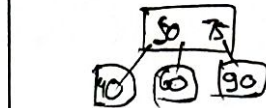
18. Insert 50



19. Insert 90



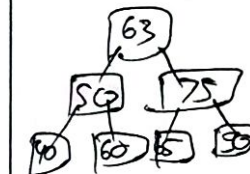
5. Insert 60



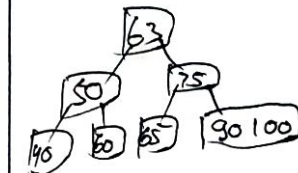
6. Insert 65



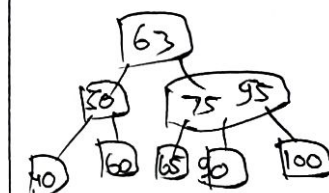
7. Insert 63



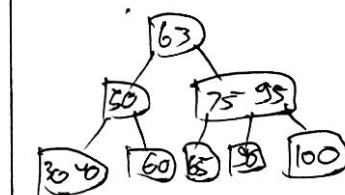
8. Insert 100



9. Insert 95



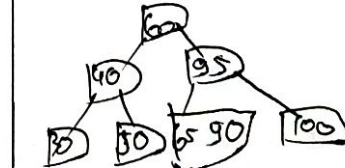
10. Insert 30



11. Remove 63



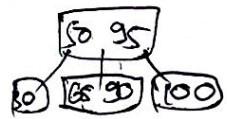
12. Remove 75



13. Remove 40



14. Remove 60



15. Remove 95



Red Black Tree

1. Insert 80



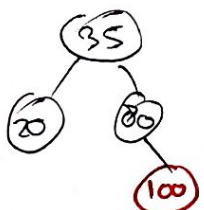
2. Insert 35



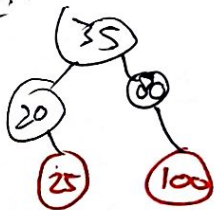
3. Insert 20



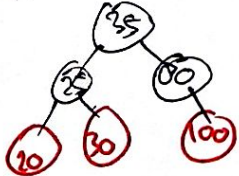
4. Insert 100



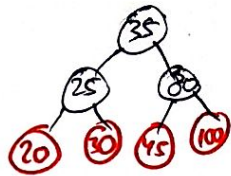
5. Insert 25



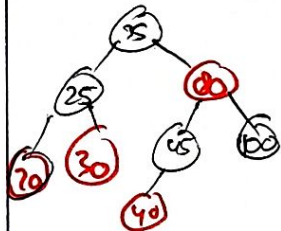
6. Insert 30



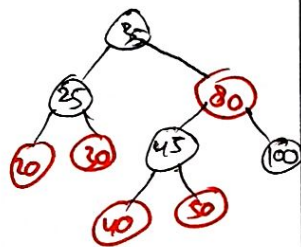
7. Insert 45



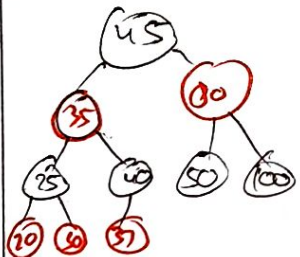
8. Insert 40



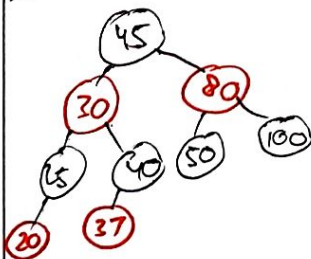
9. Insert 50



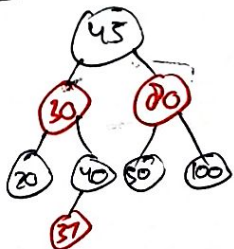
10. Insert 37



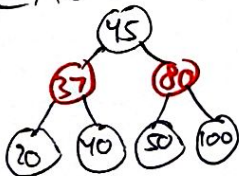
11. Remove 35



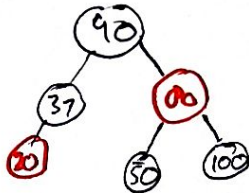
12. Remove 25



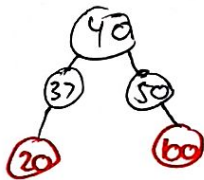
13. Remove 30



14. Remove 45



15. Remove 80



16. Insert 40



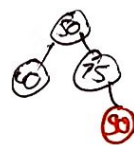
17. Insert 75



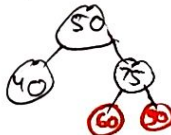
18. Insert 50



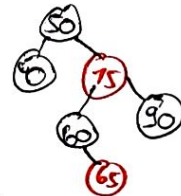
19. Insert 90



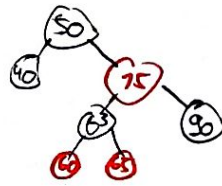
20. Insert 60



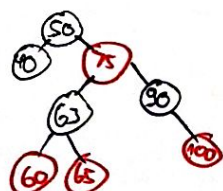
21. Insert 65



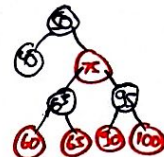
22. Insert 63



23. Insert 100



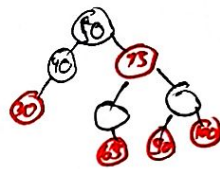
24. Insert 95



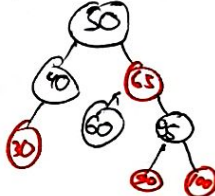
25. Insert 30



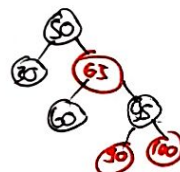
26. Remove 63



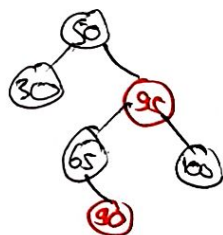
27. Remove 75



28. Remove 90



29. Remove 60



30. Remove 95

