

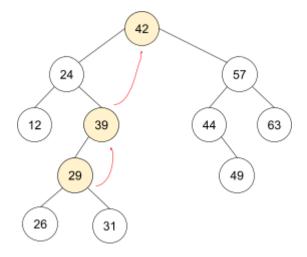
Inserting 16: -

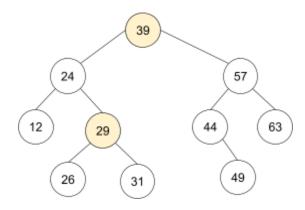
- 1) Compare 26 with 16. 26 > 16, 16 goes to left subtree
- 2) Left subtree has 10. 10 < 16, 16 goes to the right subtree
- 3) Right subtree has 15. 15 < 16, 16 goes to the right subtree
- 4) Right subtree has 25. 25 > 16, 16 goes to left subtree
- 5) Left subtree is null, so 16 is inserted

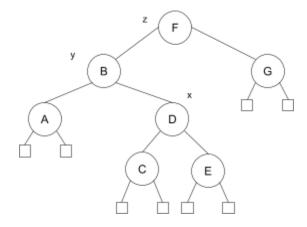
12, 24, 26, 29, 31, <mark>39</mark>, 42, 44, 49, 57, 63

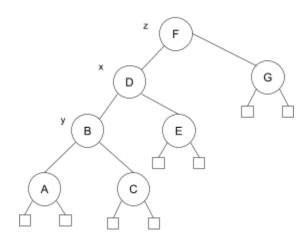
Node to be deleted: 42

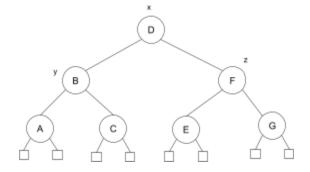
Predecessor: 39

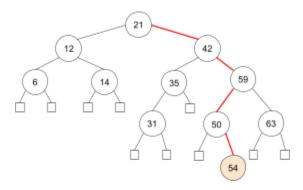












Inserting 54: -

- 1) Compare 21 with 54. 21 < 54, 54 goes to right subtree
- 2) Right subtree has 42. 42 < 54, 54 goes to right subtree
- 3) Right subtree has 59. 59 > 54, 54 goes to left subtree
- 4) Left subtree has 50. 50 < 54, 54 goes to right subtree
- 5) Right subtree is null, 54 is inserted

