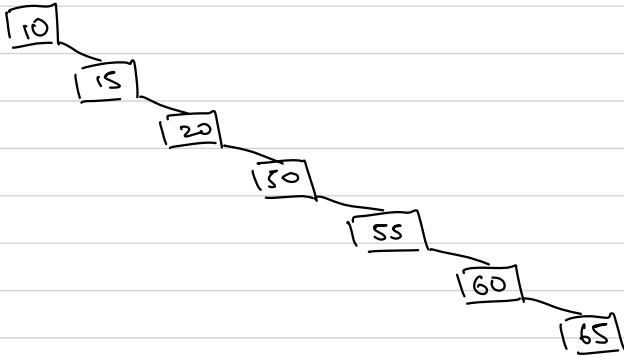


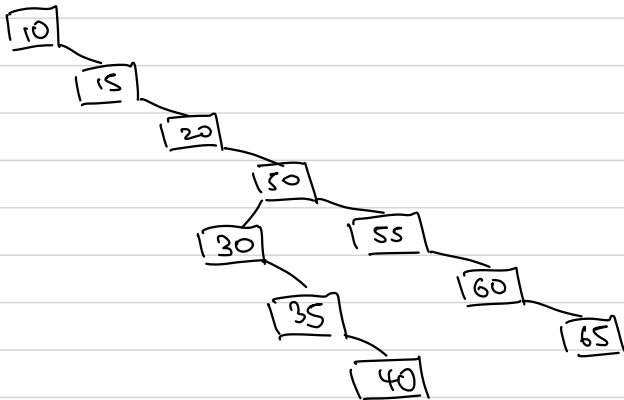
Question Two.

i) Binary Search Tree.

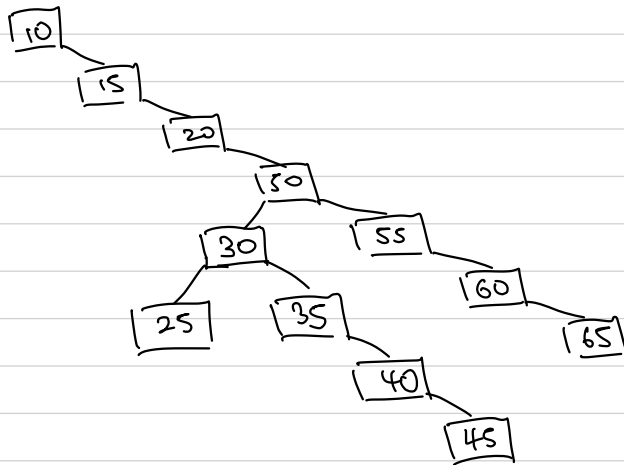
- Insert 10, 15, 20, 50, 55, 60, 65



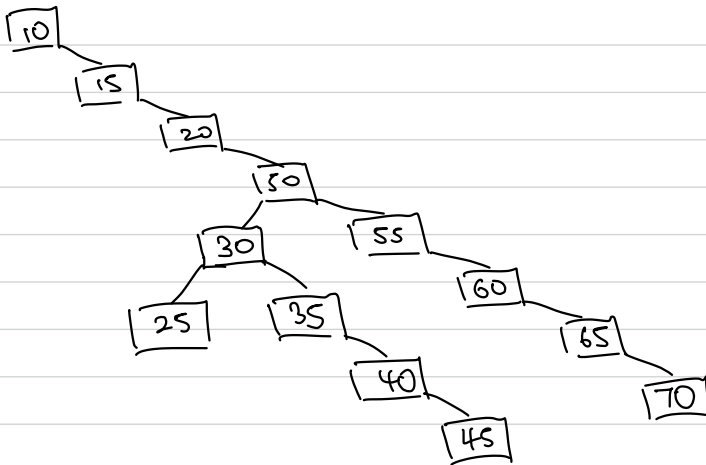
- Insert 30, 35, 40



- Insert 25, 45



- Insert 70



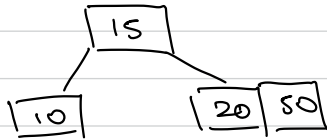
ii and iii) 2-3-4 Tree and Red-Black Tree. * Using 2-3-4 tree to convert to Red-black Tree

- 2-3-4 Tree

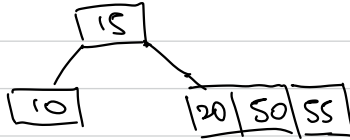
• Insert 10, 15, 20



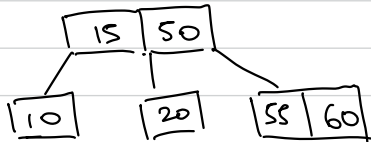
• Insert 50



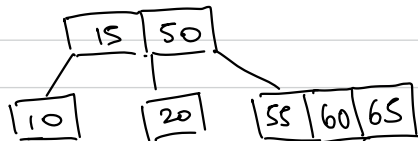
• Insert 55



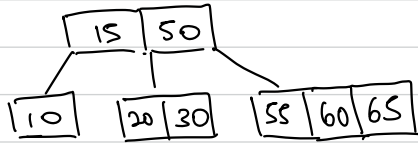
• Insert 60



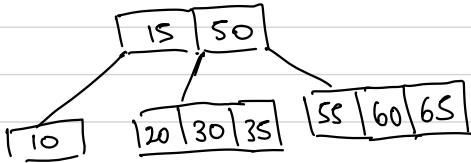
• Insert 65



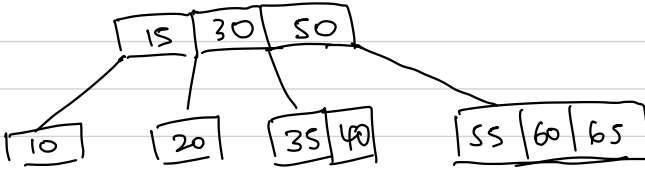
• Insert 30



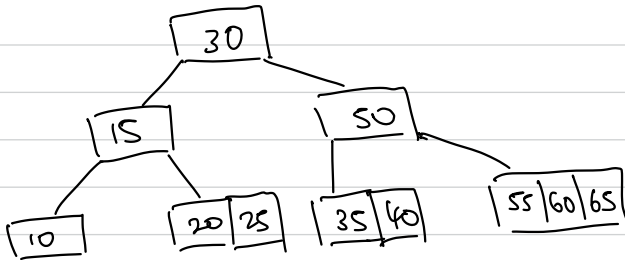
• Insert 35



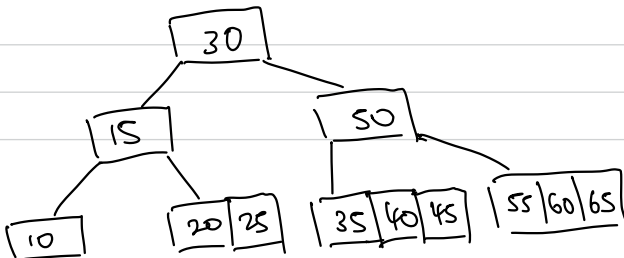
• Insert 40



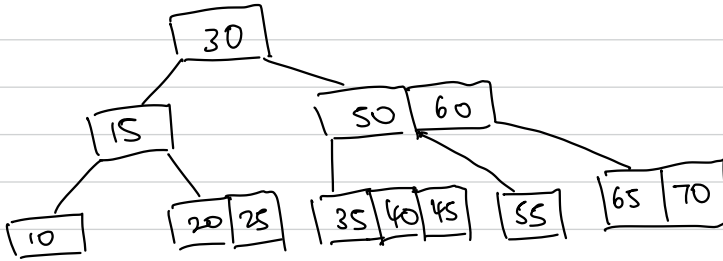
• Insert 25



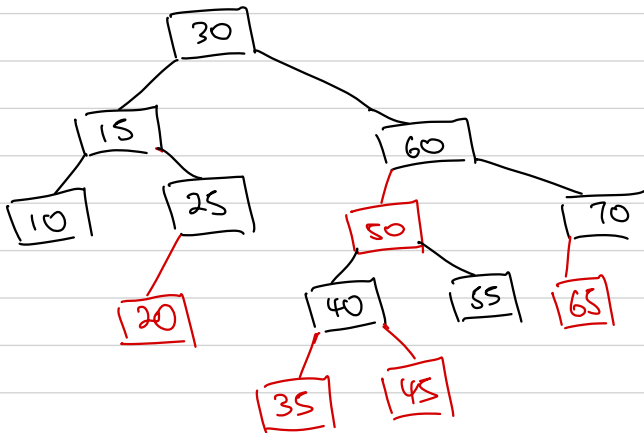
• Insert 45



• Insert 70

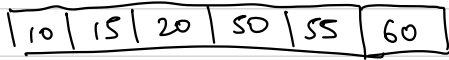


- Red-black Tree (converted using 2-3-4)



iv) B-Tree (6 keys per Node)

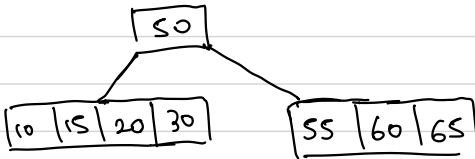
- Insert 10, 15, 20, 50, 55, 60



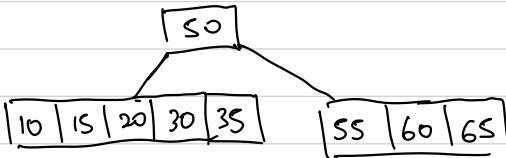
- Insert 65



- Insert 30



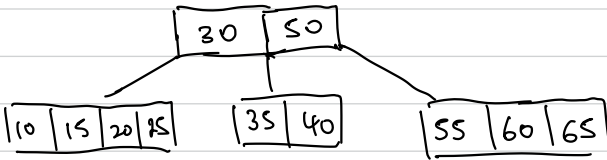
- Insert 35



- Insert 40



- Insert 25



- Insert 45, 70

