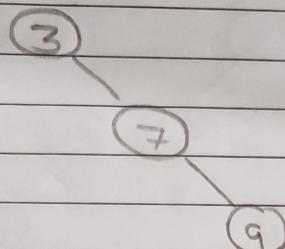


# Assignment - 7

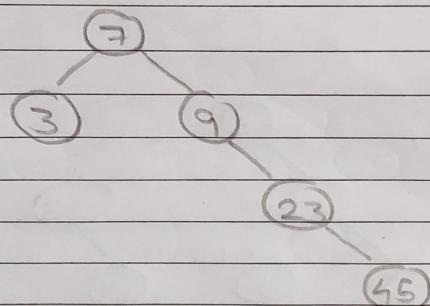
Q1.

Q1 AVL tree

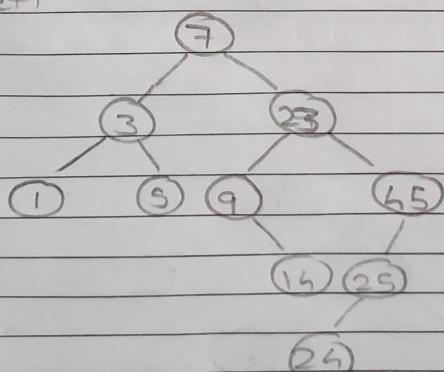
3, 7, 9, 23, 45, 1, 5, 14, 25, 24, 13, 11, 8, 19  
 31, 35, ~~26~~ 56



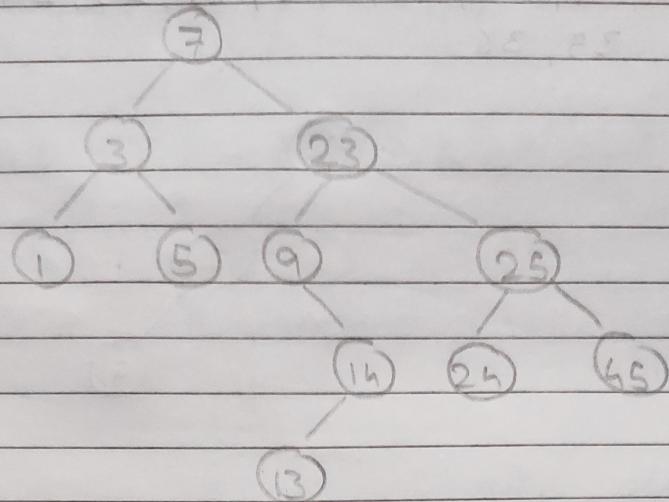
rotate left



rotate left

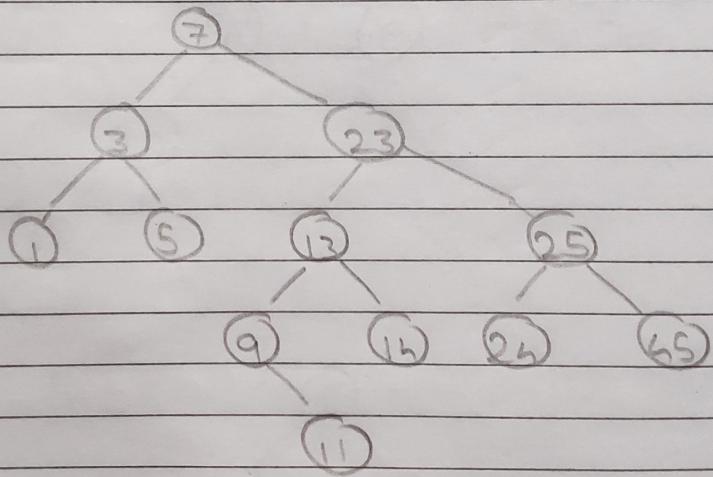


rotate right

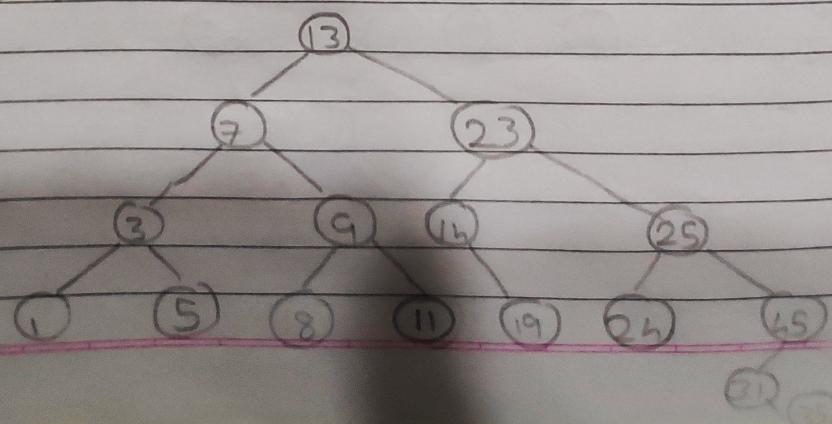


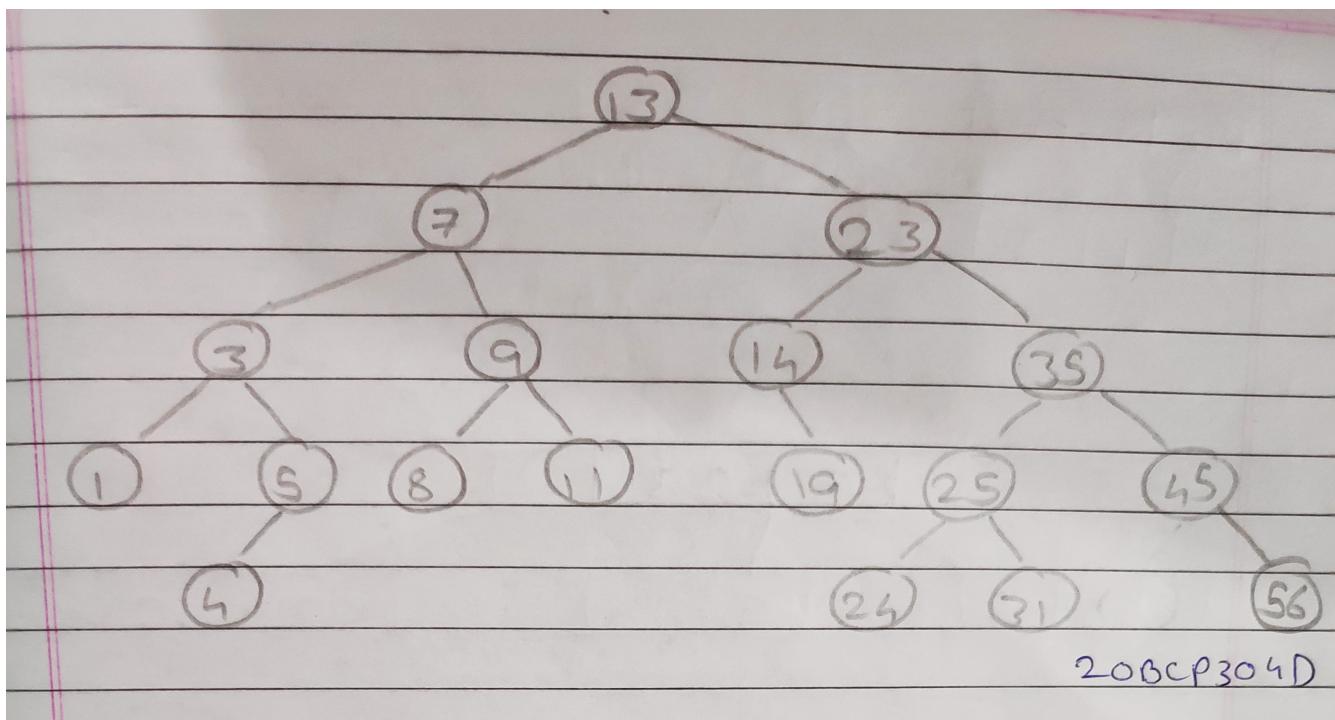
20BCP304D

rotate left



rotate left



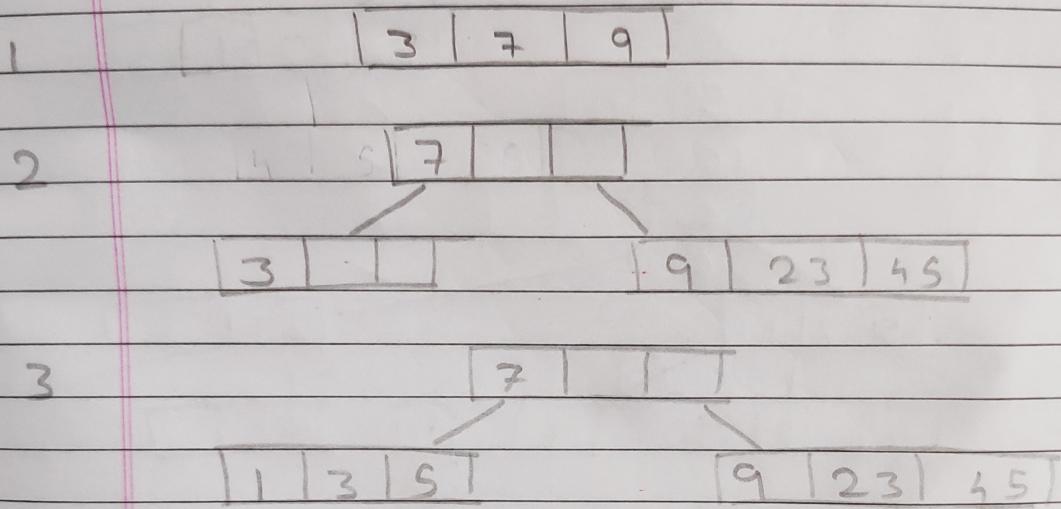


**Q2.**

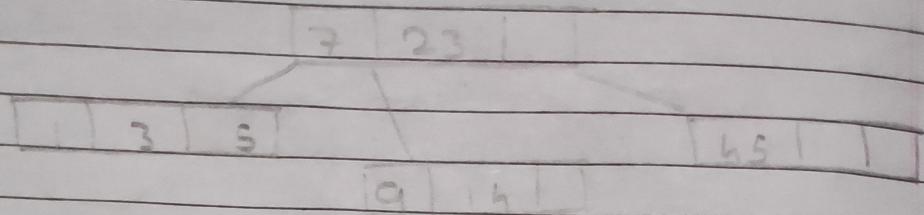
Q2 4-way binary tree

3, 7, 9, 23, 45, 1, 5, 14, 25, 24, 13, 11, 8, 19  
 4, 31, 35, ~~56~~

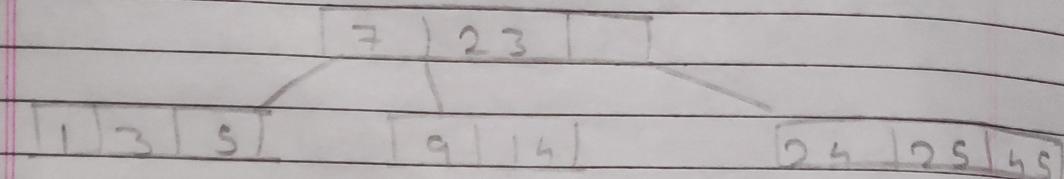
$$\text{max key} = m-1 = 3$$



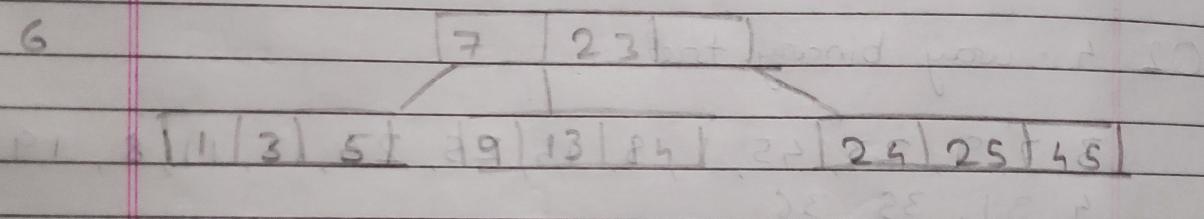
4



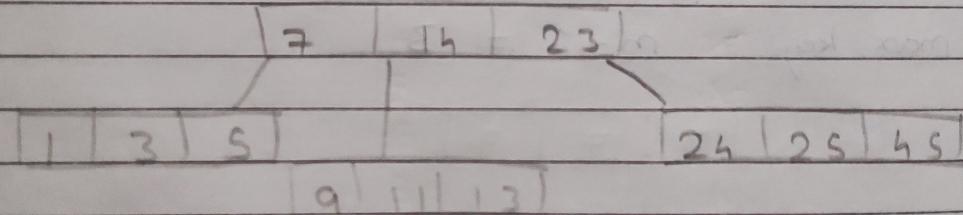
5



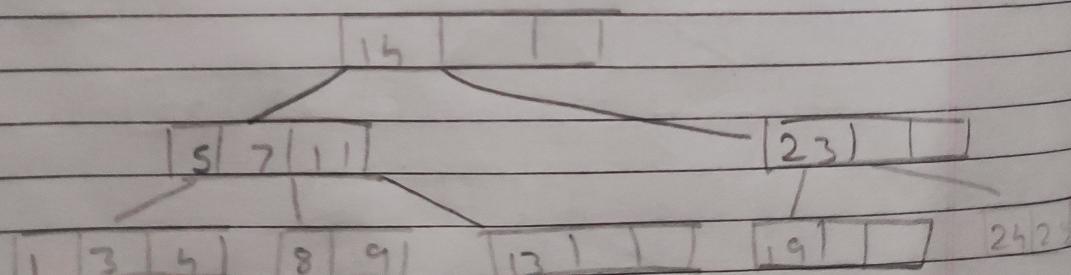
6



7



8



20BCP304D

