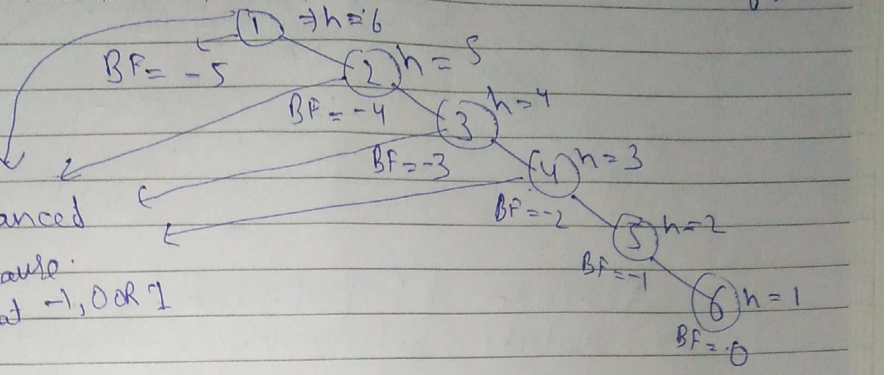
Date: _____ Page: _____

(1) BST with data.

1, 2, 3, 4, 5, 6.

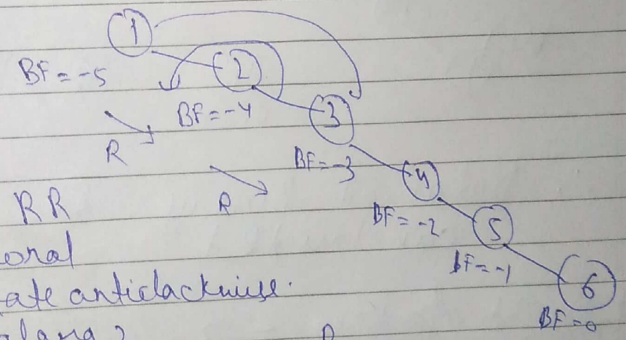
h → height of tree.



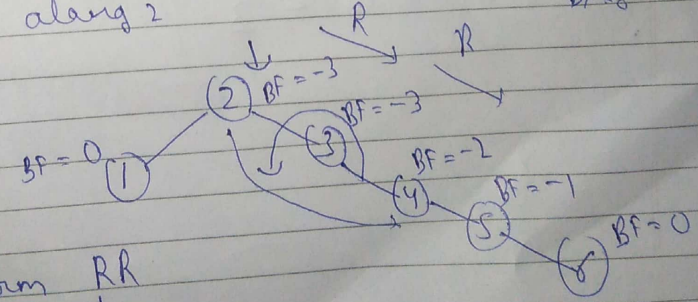

Unbalanced node because.
Bf is not -1, 0 or 1

BF (~~Binary~~ Balance factor)
= Height (t → left) − Height (t → Right)

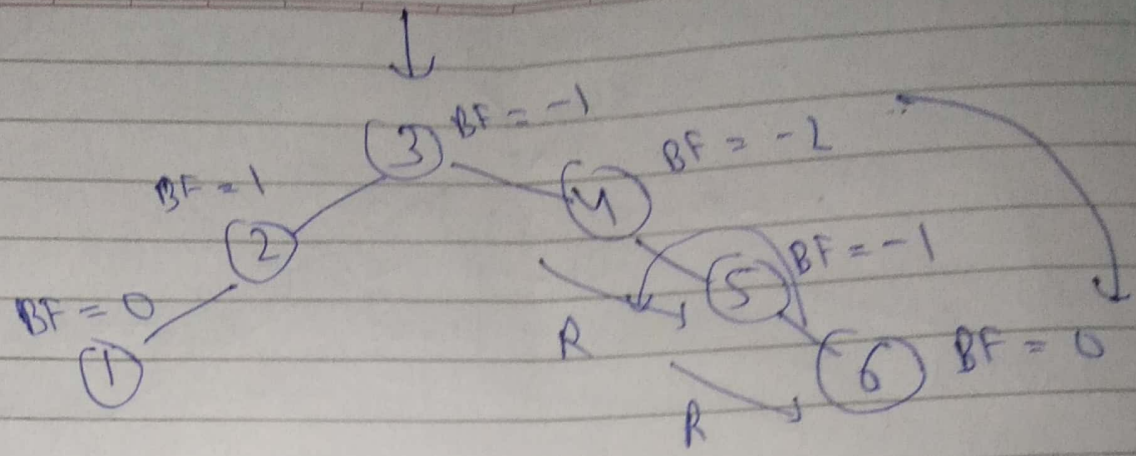
(2)



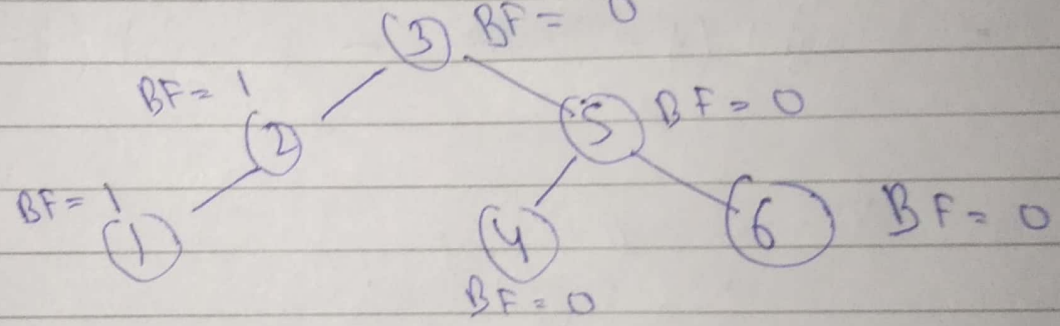

Perform RR Rotational
i.e. rotate anticlockwise along 2




Perform RR Rotational.
i.e. rotate anticlockwise along 3.




Perform RR Rotation.
i.e. rotate anticlockwise along 5




∴ Balanced Binary tree is constructed.

Height of tree = 3