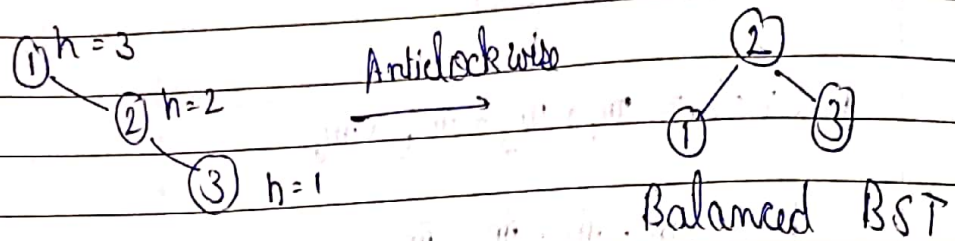


## Approach in AVL Tree

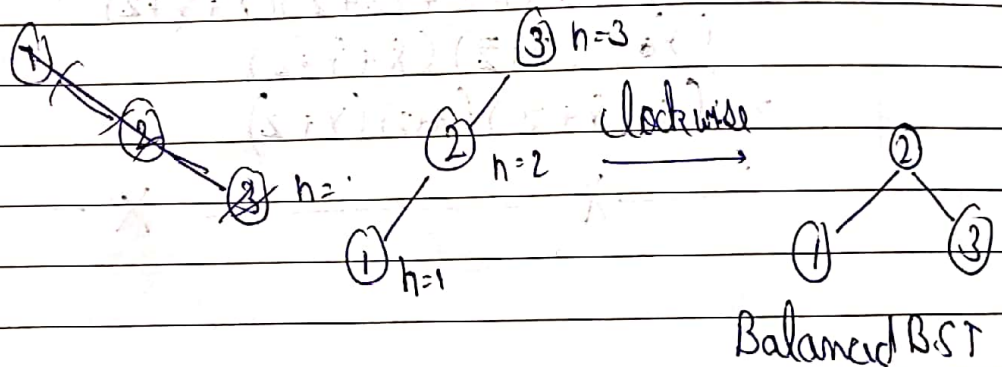
**Theory :-**

Rules in different relation.

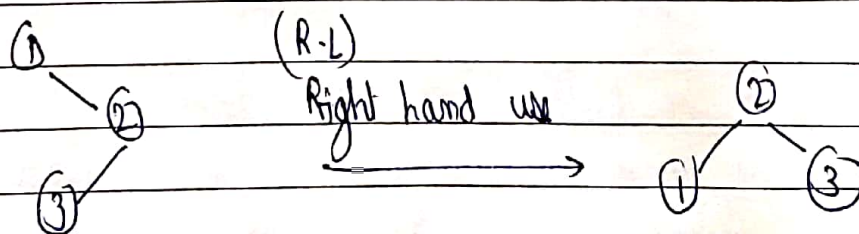
Case 1 R-R (Right-Right)  $\rightarrow$  Anticlockwise  
In this middle is fixed.



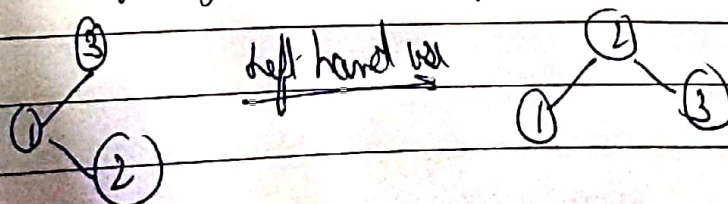
Case -2 L-L (Left-Left)  $\rightarrow$  clockwise  
middle is fixed



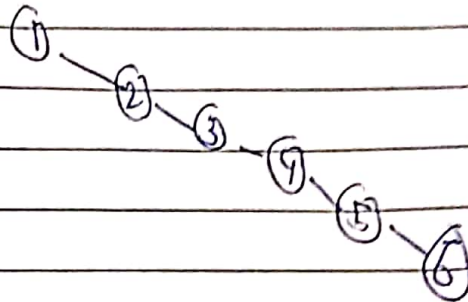
Case -3 R-L (Right-left)  $\rightarrow$  clockwise and use Right hand



Case -4 L-R (Left-Right)  $\rightarrow$  use left hand and clockwise



Now our ~~error~~ Case:-



Now.

Step-1

(1) → Balanced  
So Continue

(1) <sup>-1</sup> (2) <sup>0</sup> → Balanced So continue

(1) (2) (3) → unbalanced  
R-R rotation

(2)  
(1) (3) → Balanced  
Continue

(2)  
(1) (3) (4) → Balance  
Continue

(2)  
(1) (3) (4) (5) → unbalanced  
(R-R) rotation

(4)  
(2) (5)  
(1) (3) (6) → Balanced

X

X