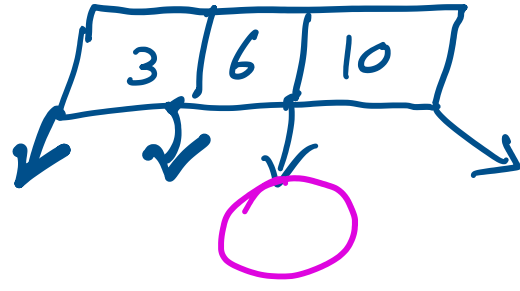


B-tree

✓ All leaves are at same level.

✓ A degree 't' is defined based on the disk block size.

3) Every node except root must contain atleast "t-1" key.

4) All nodes may contain atmost "2t-1" keys ←  
odd

5) #children = #keys + 1

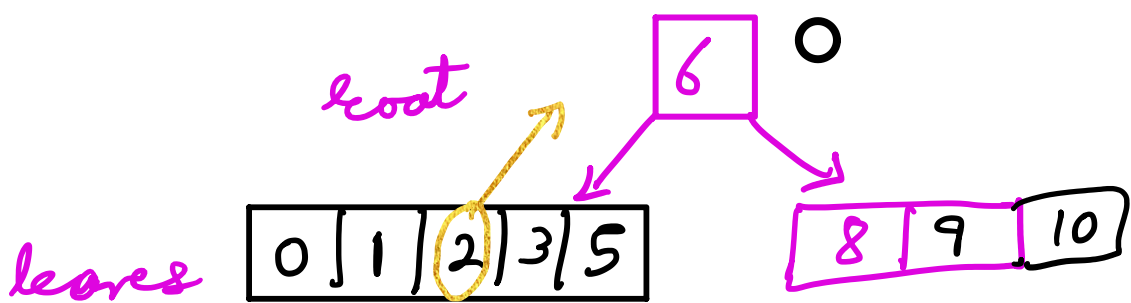
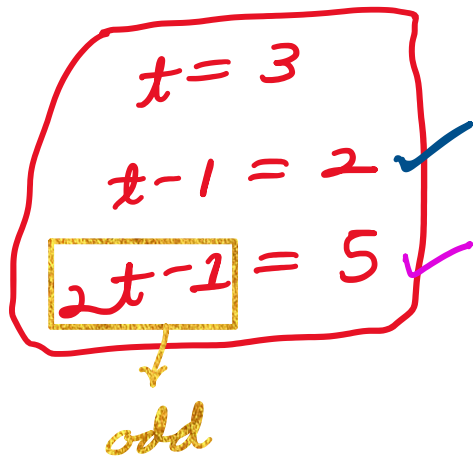
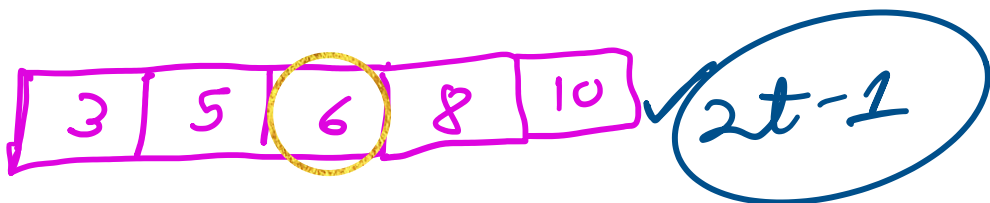
6) All keys are in ascending order. The child between 2 keys  $K_1$  &  $K_2$  has the range from  $K_1$  to  $K_2$ .

7)  $TC = O(\text{Height}) = O(\log N)$

$t=3$

3, 6, 8, 10, 5, 1, 2, 9, 0, (4)...

root  
& leaf



$$\frac{2t-1-1}{2} = \frac{2t-2}{2} = t-1$$

