Degree represents the lower bound on the no. of children i.e the minimum number possible. Whereas the order represents the uppose bound on the no. of children i.e the maximum no. possible.

Note:

One Key values whereas BST nede Combins only one.

There are lower bound of upper bounds on the number of keys a node can contain.

Every Node otherstan

root must have at

least 4-1 keys. Every

internal mode other

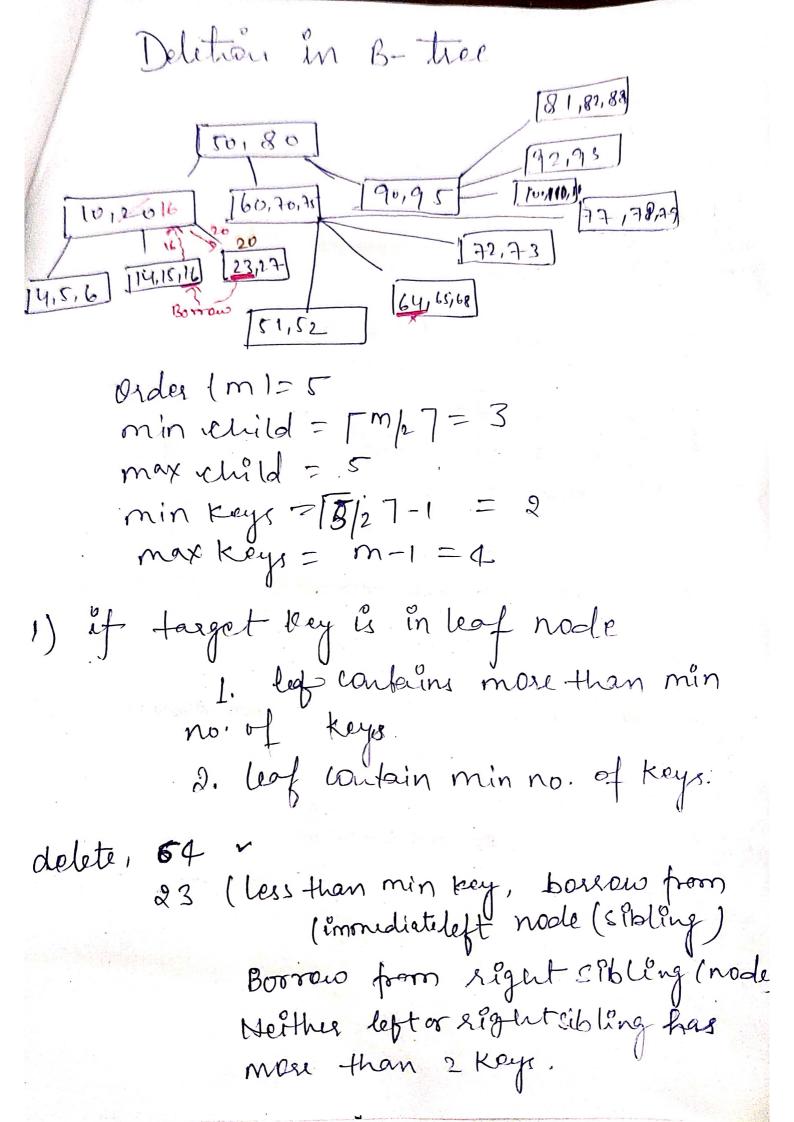
than root has atteast

t children.

Avery node contain atmost 2t-1 keys internal node can have atmost It children. Node is tull for 2t-1 keys. Order All internal noch except the root have atmost m nonempty reliable and atleast

Empty ch

F7-ceile 3- tree of cordia 5 (m) Tm/27-1 max no. of keys = 4 (m-1) T^m Min no. of keys = [T5/27-1] = 3-1=2max. no of children = 5 m min no. of children = T5/27=3 [m/27 Btree of Degree 5 (pt) (t) max no. of keys = 2t-1 (2*5-1) minnor of keys = t-1 (5-1) with L and U parametres; with lower upper bound on no. of children inner node is supposed to have. L=3, U=6per node. (both (degree or n 2-5 Keys



52,53 [66,69][74,76] [79,80]
merge
merge merge 61 will come down andmerge modes [52,53,61] 69 [74,76] [79,80]

[51,8]

[11,17]

[11,51]

[12,16]

[15,16]

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[15,16]) if target key is in Internal node.

(non leaf node) 111,51,71,70 [91,9690] 16,7 [15,16,1A120] [52,136) [74,76] [82,83,90] [93,94] [101,111,112] elete, 71 (replace, 69 or 74), 74 not possible (min-2 keys) mordes Inorder Pride Succ. (99,100) delete : 78 (mege) delete 21,200t (Replace 180 08 111), 80