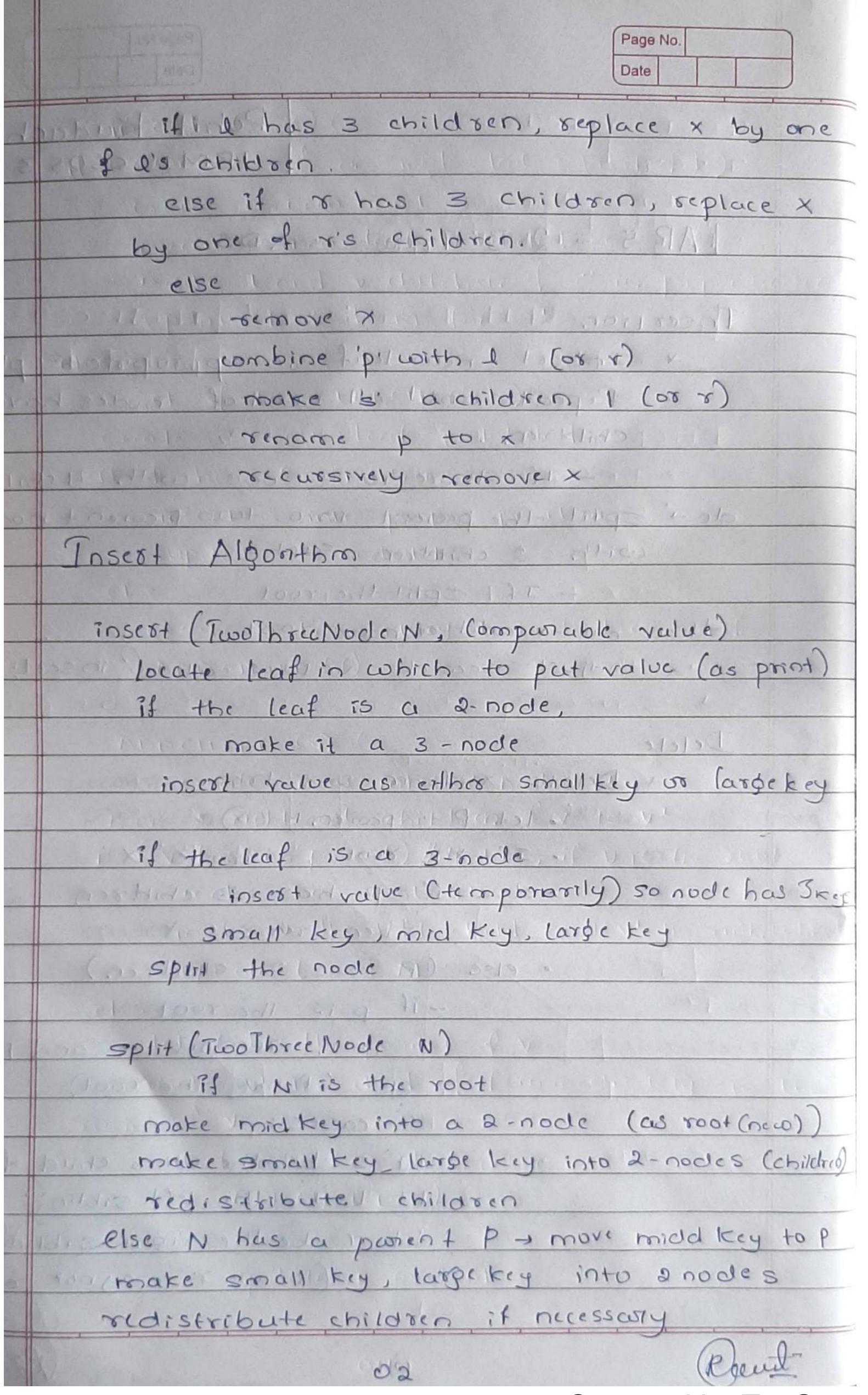
Page No.
1 18M18CS083
1AB 5 - 12-3-17-1
LAB5 - 12-3 Tree - ADS
Insertion I
* Inscrib new leaf un appropriate place.
Repeat l'until all nonleaf nodes have 2013 Children
- If there is a node with 4 children
do + split the posient into two posient node,
- If Split the root
(then dol + gadd almeloon, roopt ) landi
* Adjust scorich values along insertion put
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Delete Mon E M 11 Mon 111
a Delete x from 2+3 tree
· let P - poorent (x)
- Il x is root, remove x
donos (placelse life phase 3 chidren
then remove x
· else (P Has 21 chidren)
- if pis the root
(1) then removelly and P
10- else (Pinot Hoe root)
Morros stones o Winicases: I whom
alet s be the other child of P
the left sibling of P
let n be the tright sibling of P
( a wire r may not exist)
property de la
Laut.

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	Page No.  Date
	insert (a, 8) d
01	if (r consists of a single leaf e labeled b)
	(resente de Indus root via)
	create en neco leaf v labeledia:
	Inake Land wichtedrent of sin proper order
bi	Description de la formation de
	jetse toperation part allibration a botte paris
	set of to SEARCH (a, r)
	create a new leaf 1 labeled a
	if f has a children
2.0	insert l'into proper position
31	bon supacités Lagarin. l'oninibles short
	eise
1.1	cocate a transitory 4-hode tice at f
	ADDCHILD (7) ON SWOODS ON I
	100 10 1 10 10 10 10 10 10 10 10 10 10 1
0	ADOCHIUD CVI & PALIBOR PA
151	indicreated hew interior node vi
	more à right most children & v to v'
3	if (v has no panent) // that is, if vis the root
	make him root i, do mo
bi	make v the left child and v' the right child
	opdate L and Milde
0	elseit trad brought thomas a
	Let 7 be the parent & v
	make v' the child of fimmediately to the
	right & v
	if f now has 4 children.
	ADD CHILD (4)
	else
	update Land M
10	O4 Caset

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