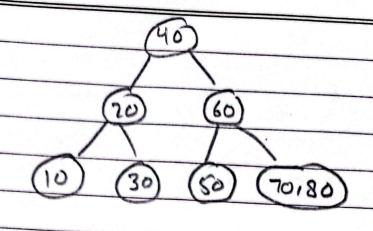
	Insert in 2-3 Tree Date:
	Example 01: Insert 50,30,15,75,65, 45,5 in 2-3 Tree.
71	(22)
2"	
4	(30,50)
Ŋ.	
	(15,30,50)
	·
	Split because not a 2 node or 3 node.
-18	Malce middle parent, less value left child.
	Malce middle parent. less value left child.  and greater value than middle its right  child.
	child.
	(30)
_	
	(5) (6)
_	
	30)
_	(15) (5075)
	(3) (30/15)
<u> </u>	(30)
-	33)
-	(15) (55,65,75)
_	(337031 3)
	Split 55,65,75.
-	(30,65)
	(5) (57)
_	Victory Page No.
Total Miles	

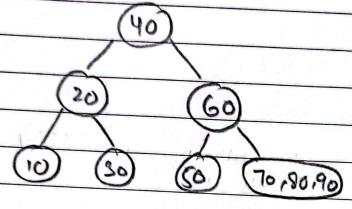
	Date:
	(30,65)
	(15) (457555) (75)
	30,65°)
<u></u>	(5,15) (45,55) (75).
	Example #02: Insert 50,60,70,40,30,20,10,80,90,100
<del></del>	(50)
ī	
<u> </u>	(50,60)
	(50,60,70)
	(30168110)
	Split because not a 2 node or 3 node.
	(60)
	(50) (70)
_	
_	60)
	(40,50) (70)
	(60)
	30,40,0)
	Victory . Page No.
	90、34、31、11、11、11、11、11、11、11、11、11、11、11、11、

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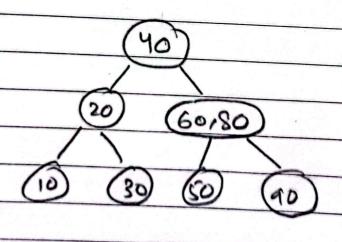
	Date:
Spid 30,40,50	
(40,60)	· ·
	-
(30) (30) (70)	
(40,60)	
(40,60)	
(20,30) (50) (70)	
(30)	
(40,160)	
(10,20,30) (50) (70)	
Split 10,20,30.	
(20,40,60)	
(b) (30) (c) (d)	
Split 20,40,60	
(40)	
(20) (60)	
(20) (60)	
(i) (3) (5) (7)	

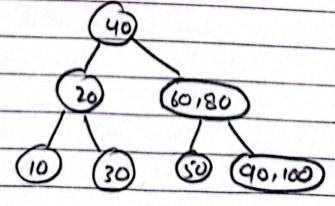
Date:\_\_\_





Split 70,80,90.





Debete in 2-3 rec Date:
Example 01:
Case I: Delete from root
(70,90) Delete 70?
60 (80 (ioo)
Replace 70 with its morder successor.
80 is morder Successor, Replace with 70.
(80,90)
(6) (10) (100)
Delile 70.
(80,90)
780740
(60 (70) (000)
(6) (70) (100)
2 made
Not a 2-3 tree as not 2 mode or 3 mode.
Merge 80 and 60.
(90)
(6,80) (100)

	Date:
Case II: Delete Lea	t same
90)	Delete 100?
(60,80) (100)	
Deleling 100, we	get:
(90)	
60BO	
Not a 2 mode or 3 mo	sole.
Redistribuling in such	away that
it becomes a 2-3	tree.
(86)	
60 90	
Example 02: Delete 88, then 33,	then 31.
(31)	
8 33,67	
1 9 32 34	(88)
Delete 88, then 33,	then 31.
Victory	Page No.
	CS CamScan

Date:
Deleting 88, we get:
(31)
8 (33.67)
(1) (q) (32) (34)
Merge 34 and 67.
Mierge 34 and 67.
(31)
(8) (33)
1) (g) (37) (34,67)
(2) (1) (37) (37)61)
Deleting 33, we get
(31)
8
1 9 32 34,67
Redistributing child modes of 33.

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e data set. L BST **CS** CamScanner

Date:
Search In 2-3 Tree:
Algorithm:-
1) Search starts at rood node.
as BST:
a) 9) Kis equal to root, netur root.
a) 91 Kis equal to root, netur root. b) 91 K L root, go to lept. c) 91 K > root, go to right.
O
(3) 9) root is a 3 node.
(Key I and Kuz) met of the 2 keys
(3) 9) root is a 3 node.  a) 9) root is equal to any of the 2 keys  (key 1 and Key 2), return root.  b) 9) root < Key 1, go to left.  c) 9) root > Key 1 and to the and root < Key 2  qo to middle.
c) 9) root > Key 1 and testhorn root < Ky 2
d) 9) root 7 key2, go to right.
스트 프로그램 프로그램 (1912년 - 1912년 - 1 - 1912년 - 1912