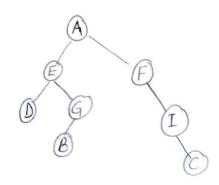
Sonam Yangtso

Cpts233

Homework # 2



2 Insert 5

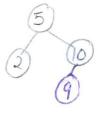
(5)

Insert 10 (1075), so insert at right

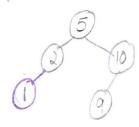
Insert 2 (2<5, move to the left

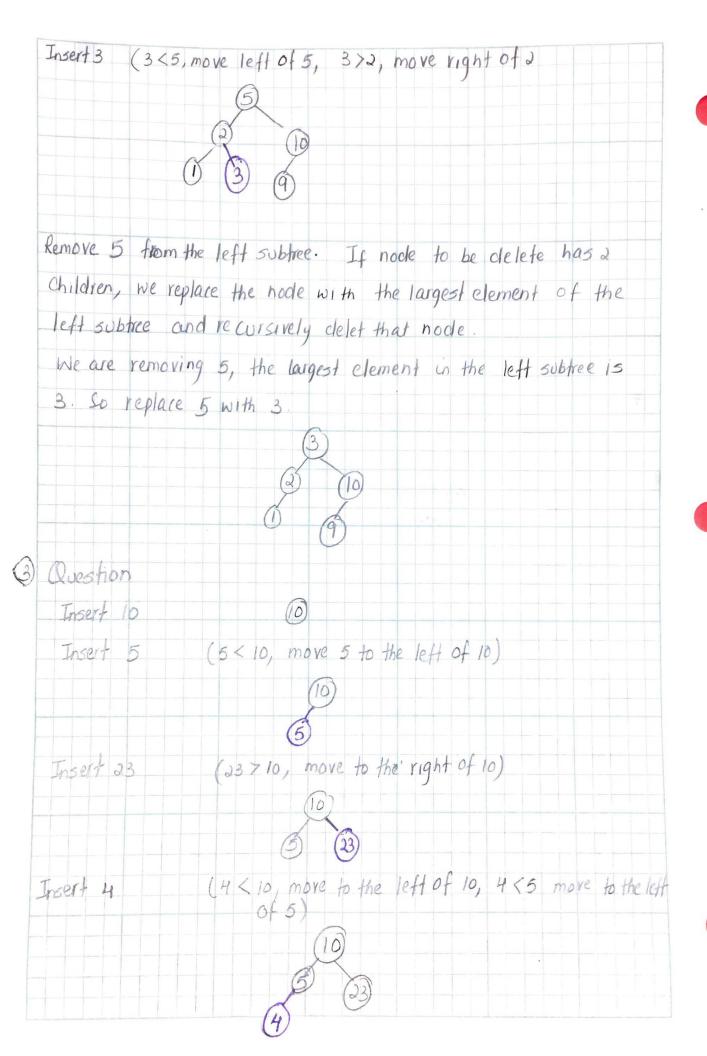


Insert 9 (975, move to the right of 5, 9<10, move left of 10



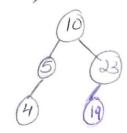
Insert 1 (1<5) move to the left of 5, 1<2, move left of 2



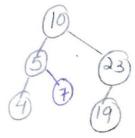


		9 7	(23)				
1 Ques	stion		(9)	- '			
AJ	The heigh	t of the	tree 4				
BJ	The dep	th of nod	e 90 is	3			
		ght of no					
		100, 50,			90,83,	99, 150,	125,
In-O Post-1	rder 01,	20, 03, 5	, 52, 80, 8	33, 90,	99, 100,	125, 150,	152
Rei	move 5	from the Gi	ven ANL t	æ	, , , ,	154, 15	, 100
^*	6	20) =>	Remove 5				
	(3)	65	(5)	R TI	s 15 RR	inbalance Clo left	rolation
	(5)	63	4				
	(19)						

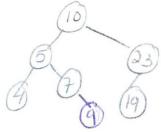
Insert 19 19710, move to the right of 10, 19<23, move to the left of 23)



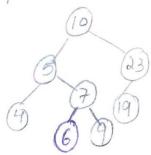
Insert 7 (7<10, move left of 10, 7 75 move to the right of 5



Insert 9 (9 < 10, move left of 10, 975 move right of 5, 977 move right of 7

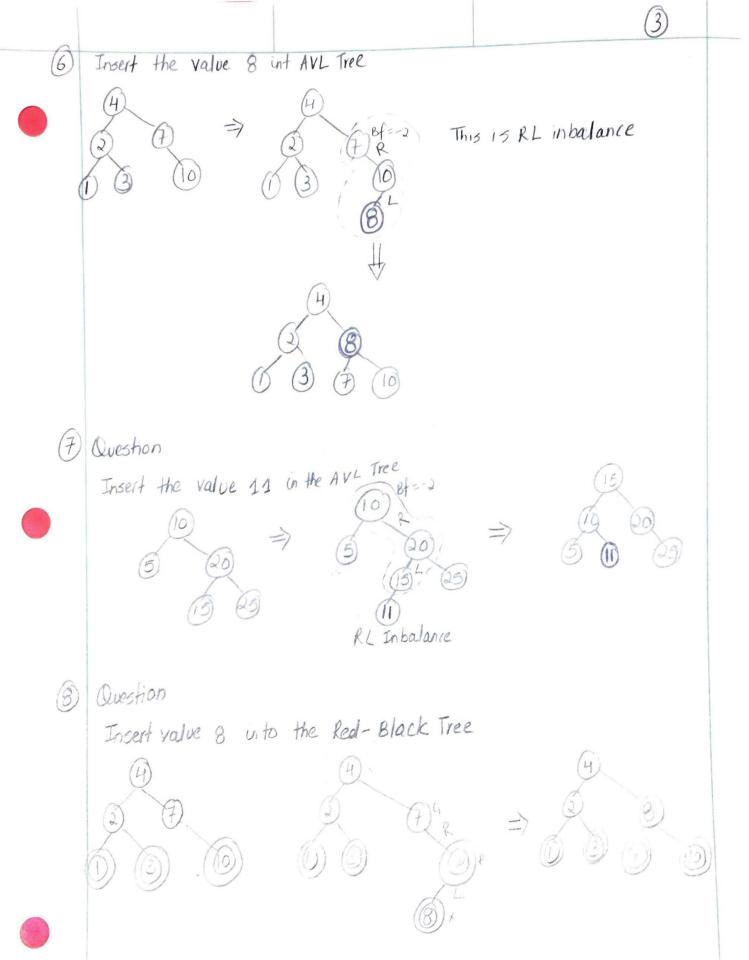


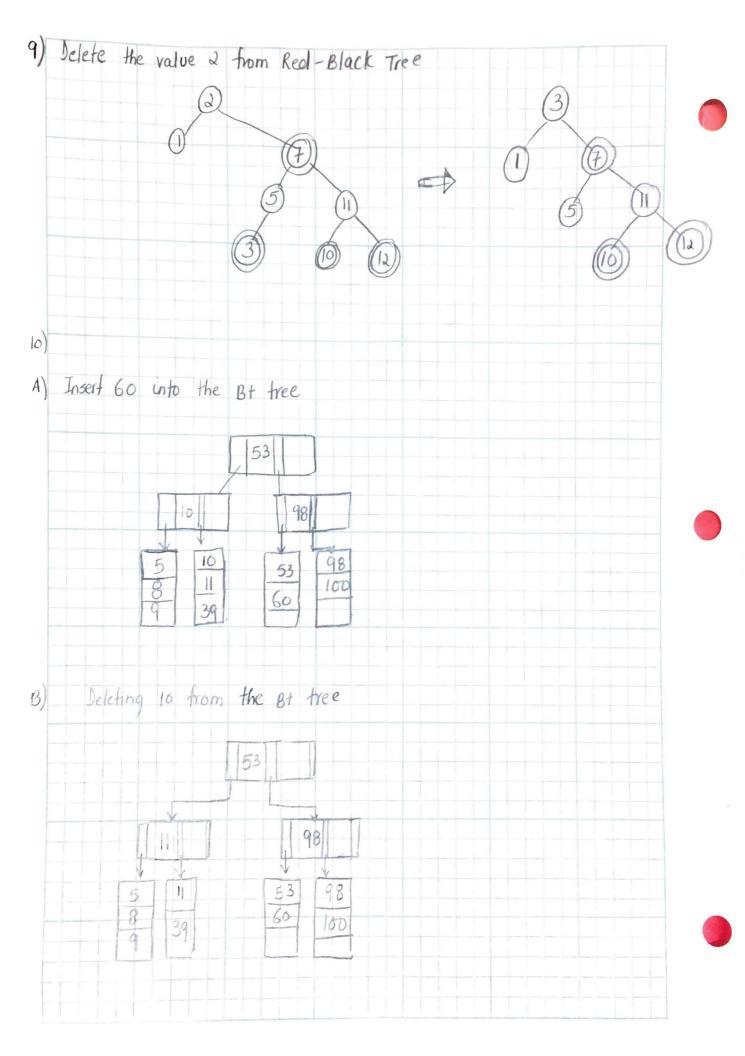
Insert 6 (6<10, move left of 10, 6>5 move right of 5, 6<7 move left of 7



Remove 5 from right subtree of the node

Since 5 has a children, we replace the node with the simulest element from the right subtree which is 6 in this case





11) A) The size of the internal Node (M) is 3 because the given B tree has 3 nodes. B) Size of B-tree leaf node (L) is 6 c) Since each B+ tree node have 5 pointers. therefore, 5th < n < 5th, height m d) If we insert 30,000 Customer records = 56 × 30,000 < 57 Therefore height is 6 e) If we insert 2,500,000 customer = 59 < 2,500,000 ≤510 Therefore height is 9 Note: Took help from my fellow classmate and tutors.

