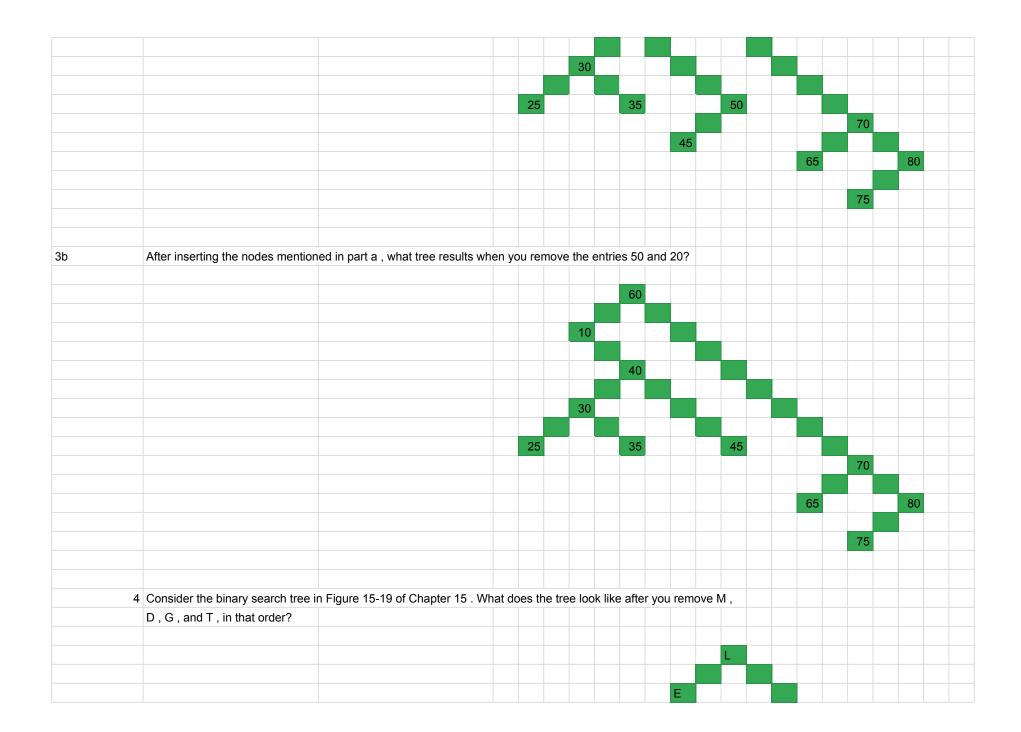
Problem															
1a	Which node must contain the inorder successor of the value in the root? Explain														
	6 is the inorder successor	The inorder successor of N 's entry is in the leftmost node in N's right subtree													
1b	Which node must contain the	inorder predecessor of the value in	n the root	2 Evols	in										
10	8 is the inorder predecessor														
	o is the morder predecessor	the max value from node 2 is	ine ngni i	nostric	ue										
	2 Arrange nodes that contain the	e letters A , C , E , F , L , V , and Z	z into two	binary	search	trees:	one t	nat ha	s maxi	mum					
	height and one that has minim														
		-													
	max heght		Α												
	-		(
				Е											
					F										
						L									
						١	/								
							Z								
	min height					F									
				С			V								
			A	4	Е	L	-	Z							
	Consider the binary search tre	ee in Figure 15-18 of Chapter 15													
3a	What tree results after you insert the entries 80, 65, 75, 45, 35, and 25, in that order?														
							60								
					20										
				10			40								



						Α			K				
												V	
											R		W
												S	
If you remove an item from a bina	ary search tree and then insert it b	ack ir	nto th	e tree, w	vill you	ı eve	r chan	ge the					
shape of the tree?													
		origi	nal										
shape changes, see simple exam	nple			2									
			1	3	3								
		remo	ove 2										
				1									
				3	3								_
		add 2	2	4									
				1	5								
				2	,								