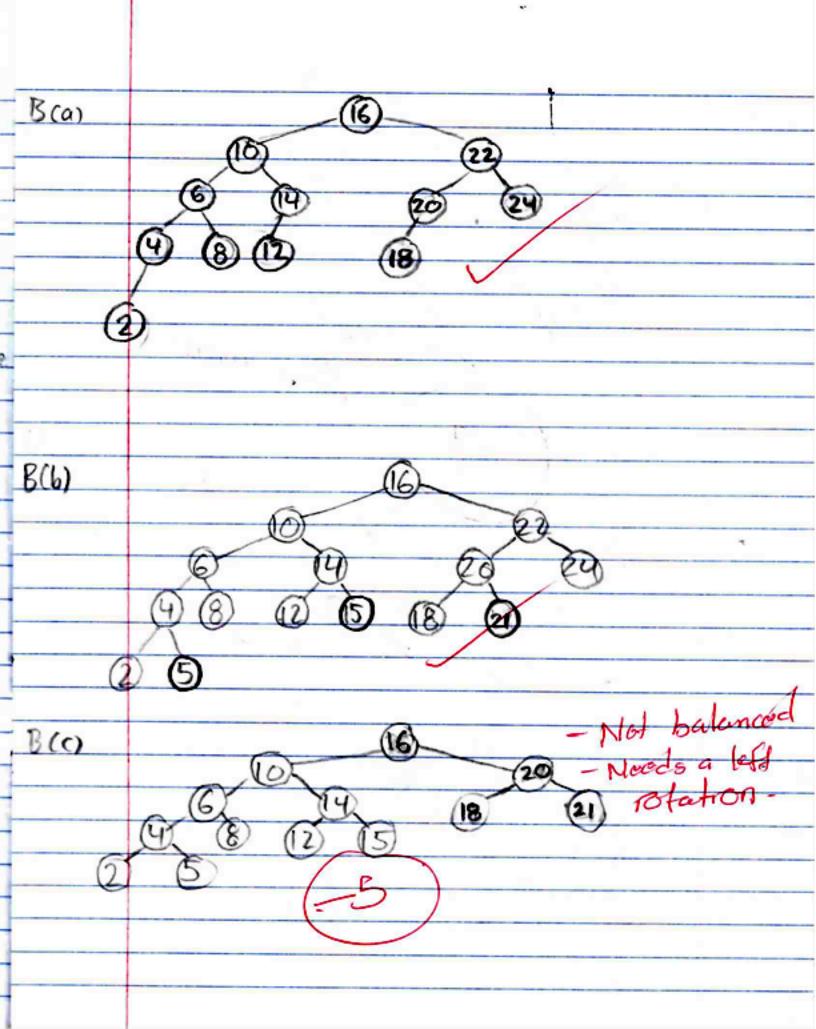
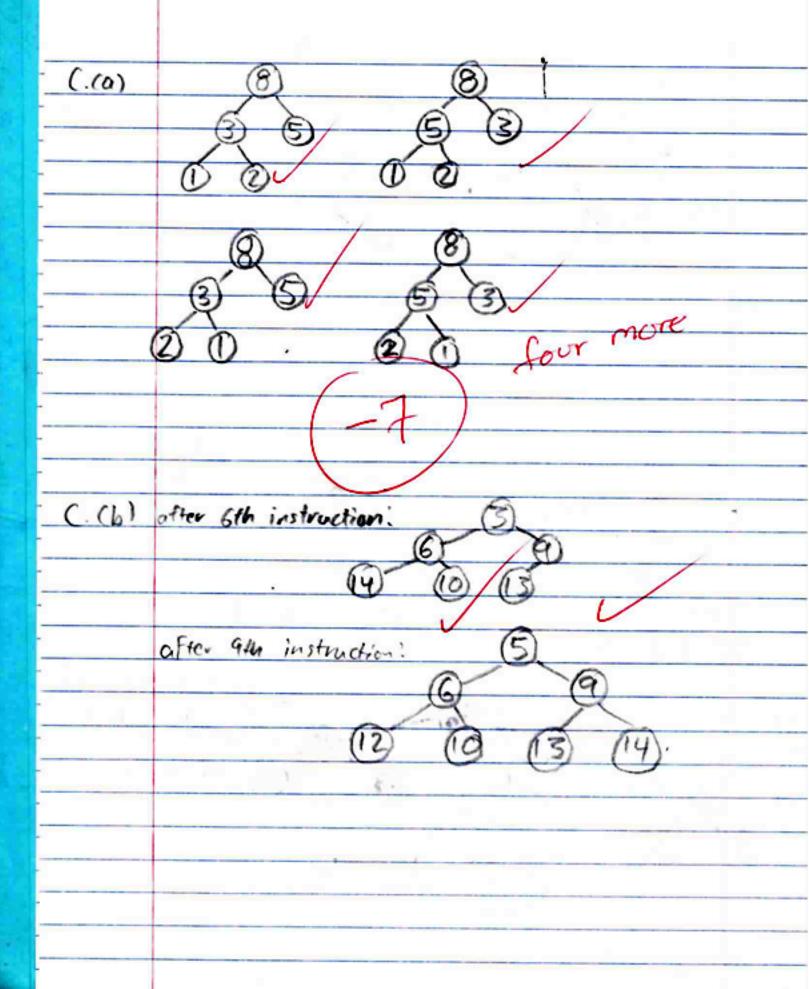
	1
Acari.	O(n6)
Acarii	O(n)
A(6)i	This claim is true.
	A.Let f and g be functions from 2+>Rt.
	that is positive real-valued functions on the
	domain of mostive inteners
	I(n) E O (g(n) => hoso gen = c, 0 < c < 0
	R let fine In-In3+2h and a(n)= ln n
	B Let f(n) = In-\n3+2n and g(n) = In n. (I want to show that now Inn = c. Occess D. lin In-\n1+2n & lin \langle \la
	De Invarian : e in (nisen) = e i (Incasean)
	F = ("1515") (211515) = F = 311,1511 = F = (311,1511)
	- F. 1. 4N5+5 = F. 1. (4h5+5) = F. 1. (184)
	= li 1.3 = 3/2 (77 12) 1 100 2 16n)
	For C= 3. Non g(n) = c, 0< (<00.
	Therefore the trillate 6 Oll 10
	Therefore, In-In3+zn E O(Inn)

AGlii This claim is false A. Let f and g be functions from 2+ -> Pt -For c=00, Occess is fame. Therefore, $\sqrt{9^{n+2}} \notin O(2^n)$.





				7		
Dea)	fruit	quant.	profit	profit I quant.		
	apple	2	3	= 1.5 (rsi)		
	avorado	5	6	\$ = 1. Z		
	cherry	4	5	5: 1.25 3rd best		
	strong 3 4 = 1.33 (2001 best)					
The former should take 2 tons of apples.						
	3 tens of stroubenies, and 3 tens of cherries to maximize profit. Unax total profit: 2(3)+3(4)+3(4)					
	= 3+4+15					
	= 7+3.75 = B 10.75					
	#					
D(b)	\$ 10					
Decl	1,, ,					
D.(c)	10 March 1997			codes and strouterries		
		· lo me				
	We Fille	d in la	ble 5 le	Tate right, top to bottom		
	For any	guen	ا کرونا	there was not everyth neight		
3	tother the , Viji would					
	just equal the cell above, or VCi-1, J. It there					
	12 6 none	4 velos	1 Copou	to you take the marivement		
	the upper cell, VCi-1, it, and the sum of ad new fruit to the war of leftour coordin as VCi-1,					
	new trait to the way of leffcuer labrate av 1/Fi-1,i-w.7+V					