6.	(a) Basis Step:
	(a) Basis sup. When T is I node, i(T) = 0
	THE A DECEMBER OF THE
	Inductive Step:
	Let T, T2, T3 be full trinary trees and
	$T_4 = T_1 \cdot T_2 \cdot T_3$
	J=nd
	Then, $i(T_4) = i(T_1) + i(T_2) + i(T_3) + i$
	THE THE THE

(b) Basis Step: When T is I node, e(T)=1 Inductive Step: Let T1, T2, T3 be full trinary Trees and T4 = T1. T2. T2 $e(T_4) = e(T_1) + e(T_2) + e(T_3)$ (c) Conjecture: e(T) = 2i(T)+1 Basis Step: When T is just the most, e(T)=1 and i(T)=0 1= 2 x 0 + 1 V Inductive Step: Let T, T2, T3 be full trimary trees and T4 = T1 · T2 · T3 Desume as the IH that e(T,) = 2i(T,)+1, $e(T_2) = 2i(T_2) + 1$ and $e(T_3) = 2i(T_3) + 1$ $e(T_4) = e(T_1) + e(T_2) + e(T_3)$ = 2i(T1)+1+2i(T2)+1+2i(T3)+1 = 2 (iLT1)+ i(T2)+i(T3)+1) +1 = 2i(T4) +1 (by definition from ((a))