C) Supp L(R) = L(S) = L(T) Note:  $(R^*+T)^* = S^*+T^* \Leftrightarrow L(R^*+T)^* = L(S)^* \cup L(T)^* \Rightarrow L(R)^{**} \cup L(T)^* = L(S)^* \cup L(T)^*$ Use  $L(R)^{**}=L(R)^{*}$  (This may need prof) If this is true,  $L(R)^*UL(T)^* = L(T)^*$  by supp, and  $L(S)^*UL(T)^* = L(T)^*$  by supp, Thus &(R) \*\* UL(T) \* = &(S) \* UL(T) \*