- 8. Let *t* be an arbitrary binary tree represented using the node structure for a leftist tree.
 - a) Write a function to initialize the *shortest* data member of each node in t.
 - b) Write a function to convert t into a leftist tree.
 - c) What is the complexity of each of these two functions?

(a) jnt find (node* n) { if (n == NULL){ (O(n)) return 0; int l= find(n > lohild), r=frol(n > rchild); nes shortest_data = min(1, r) + 1; return min(l, r) + 1 5 (b) void binary-to-leftist (node* roet) grewe < nade *> 9/ ((nlagn)) for n nade: g.push (hode [i]); while (!%.empty()) (n)
node* n1 = q.pop(), n2 = 4.pop(); n1 = mevge_two_leftist_tree (n, n2); 9/. push(n,);