root = position 0 in pre order list

left child = one step right of root in
                preorder list
                    IF
                there is a subset to the left
                of root in inorder list

right child = $(Y+1)$ steps to right of root in
                pre order list, where Y is the
                subset length to the left of
                root in inorder list
                    IF
                there is a subset to the right
                of root in inorder list