Linked In LAN Non News Next Non n Inumber = 3 addelmin In (\*n). number = 3 derd politic n Lit > nex >nex = n (\*(\*Int), noxt), next = M nessy nowen Instead, be pulled to next, which points to 15t Just -> next = [Headeress cr) Introduce

Binary Trees less than 4 greater than 121 6 [] [3] [5] 7. - recursive structure - each tree has 2 children -cach child is a tree - Search is efficient - received door structures lend themselves to recursive functions technically thee \* a devolution of tree wo but 0150 linked list inked list Solution

Make 2 root node 12 [3] Can we search in constant Yes - with Hash tables one we Ascit to an array of well work work work work work to Albust Ilm Red 11895 Hermiane + Harry 1 - Zachantas [] Hash Funtion Input = Haish = Output

fundin returns int ( cher & returns int (hold)
Zacherrary ] + 25

To solve inefficiency of Solution 1 > grow Hash table 90 .0.0 Bad Henry and · a.d Hagred go to some loedlen we could use first 3 letters .... But we grow the table expanentled by 26 - 262 - 263 etc Tries (or prefix tree) a tree made up of Harrays Pores
Node Audili Elli Anode TILL COM TOTAL