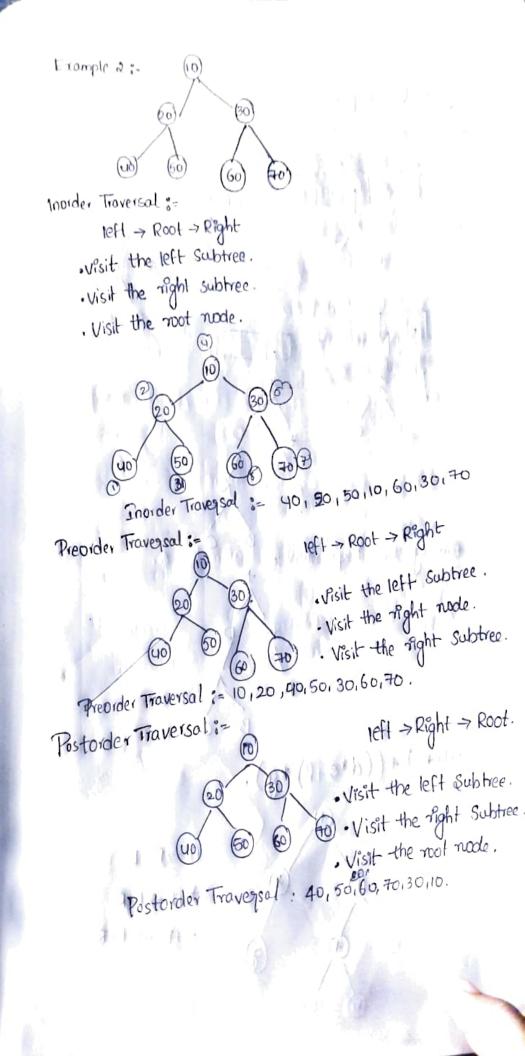
82/4/211 Tree Traversal :-Thorder Traversal :left -> Root -> Right visit the left substree ! · Visit the most mode · Visit the right subtree morder traversal := 1,213,41516,7. Preorder Traversal := Rest -> left -> Right · Visit the noot mode. · Visit the left subtree. · Visit the right subtree Preorder Traversal: 412,193,6 5,7 100 Postorder Traversal: 1eft > right > Root · visit the left Subtree. · Visit the right Subtree PostTraversal: 1,3,2,5,7,6,0 · Visit the noot mode



Example 3 := Binary Tree Expression := (1) A\*B1c +0. and the second of the second (Pi) (a+b\*c) + ((d\*e+f)\*g). A-R-L \*11 -PLIR

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main.c
                                                                               Run
                                                                                         Output
 1 #include <stdio.h>
                                                                                       /tmp/xaBuMj2EQ0.o
 2 #include <stdlib.b>
                                                                                       In-order traversal of the binary tree:
 3 - typedef struct Node {
                                                                                       20 30 40 50 60 70 80
        int data;
                                                                                       In-order traversal after deleting 20:
        struct Node* left;
                                                                                       30 40 50 60 70 80
        struct Node* right;
                                                                                       In-order traversal after deleting 50:
 7 } Node;
                                                                                       30 40 60 70 80
 8 - Node* createNode(int data) {
        Node* newNode = (Node*)malloc(sizeof(Node));
        newNode->data = data:
                                                                                       === Code Execution Successful ===
        newNode->left = NULL;
12
        newNode->right = NULL;
13
        return newNode;
14 }
15 - Node* insertNode(Node* root, int data) {
16 -
        if (root == NULL) {
17
            return createNode(data);
18
19 -
        if (data < root->data) {
20
            root->left = insertNode(root->left, data);
        } else {
21 -
22
            root->right = insertNode(root->right, data);
23
24
        return root;
```

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& Share
     main.c
                                                                                    Run
                                                                                               Output
                                                                                                                                                                             Cle
     25 }
                                                                                             /tmp/xaBuMj2EQ0.o
                                                                                             In-order traversal of the binary tree:
     26 * void inOrderTraversal(Node* root) {
             if (root != NULL) {
                                                                                             20 30 40 50 60 70 80
                                                                                             In-order traversal after deleting 20:
     28
                 inOrderTraversal(root->left);
     29
                 printf("%d ", root->data);
                                                                                             30 40 50 60 70 80
                                                                                             In-order traversal after deleting 50:
     30
                 inOrderTraversal(root->right);
                                                                                             30 40 60 70 80
     31
     32 }
     33 - Node* findMin(Node* root) {
                                                                                             --- Code Execution Successful ---
     34 -
             while (root->left != NULL) {
     35
                 root = root->left:
     36
     37
             return root;
     38 }
     39 - Node* deleteNode(Node* root, int data) {
     40 -
             if (root == NULL) {
                 return root:
     42
     43 -
             if (data < root->data) {
                 root->left = deleteNode(root->left, data);
     44
     45 -
             } else if (data > root->data) {
ηp
     46
                 root->right = deleteNode(root->right, data);
     47 -
             } else {
     48 -
                 if (root->left == NULL) {
```

