Answer on Question #60485, Programming & Computer Science / C++

Question:

below shows the postfix expression. Draw a binary tree of abc * + de * f + g +
and find the following

i. infix expression

ii. prefix expression

From the traverssal of predorder , inorder and postorder as above write down the c++ statement for each

i.predorder function

ii.inorder function

Solution:

i. Infix: (a + (b * c)) ? (((d * e) + f) + g)

ii. Prefix: ? + a * b c + + * d e f g

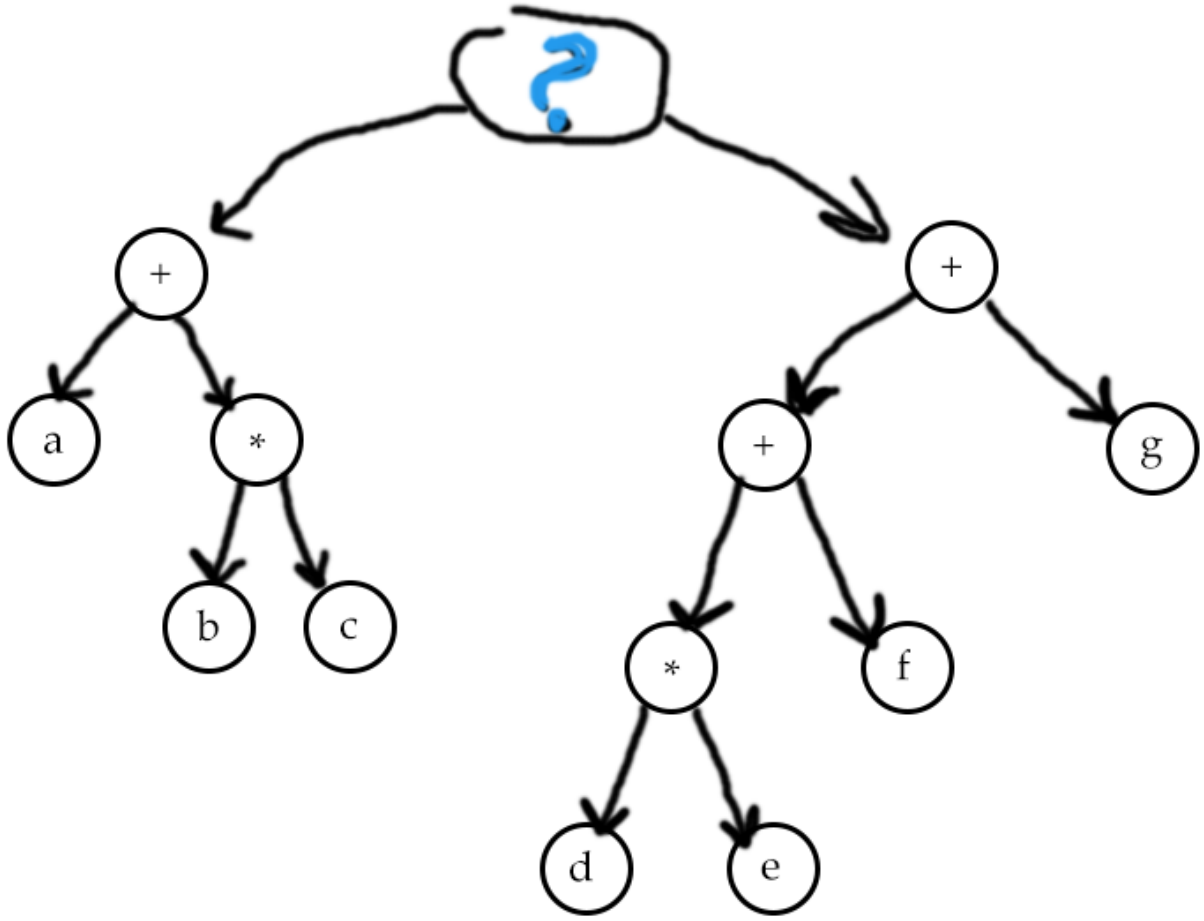

Figure 1. Expression tree

i.predorder function:

```
void Preorder(tree *root) {
        if(root == null) return;
        cout << root->value << " ";
        Preorder(root->left);
        Preorder(root->right);
}
```

ii.inorder function:

```
void Inorder(tree *root) {
        if(root == null) return;
        Inorder(root->left);
        cout << root->value << " ";
        Inorder(root->right);
}
```