

## Answer on Question #60389, Programming & Computer Science / C++

### Question:

Draw a binary tree that represents the following arithmetic expression, and use the tree traversals to find the prefix and postfix expression. Show your steps to find prefix and postfix expression

$((a + b) + c * (d + e) + f) * (g + h)$

### Solution:

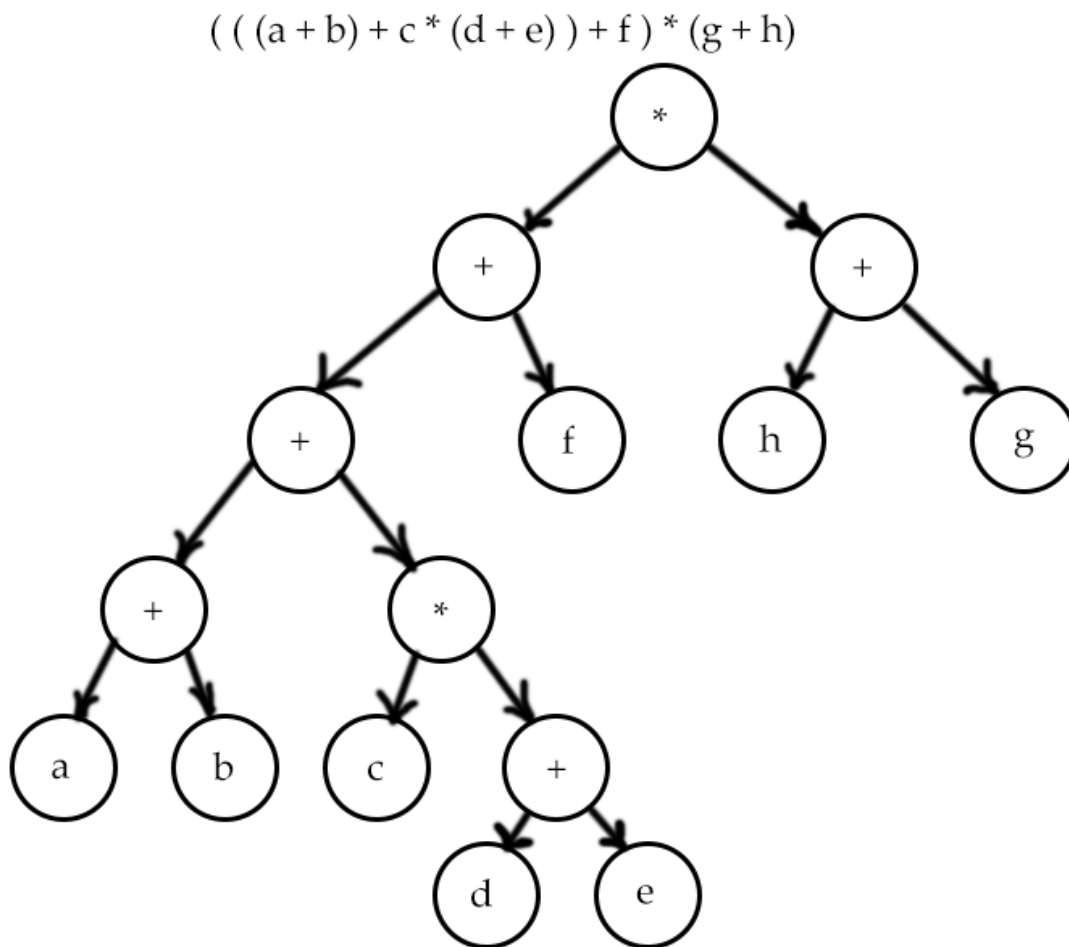
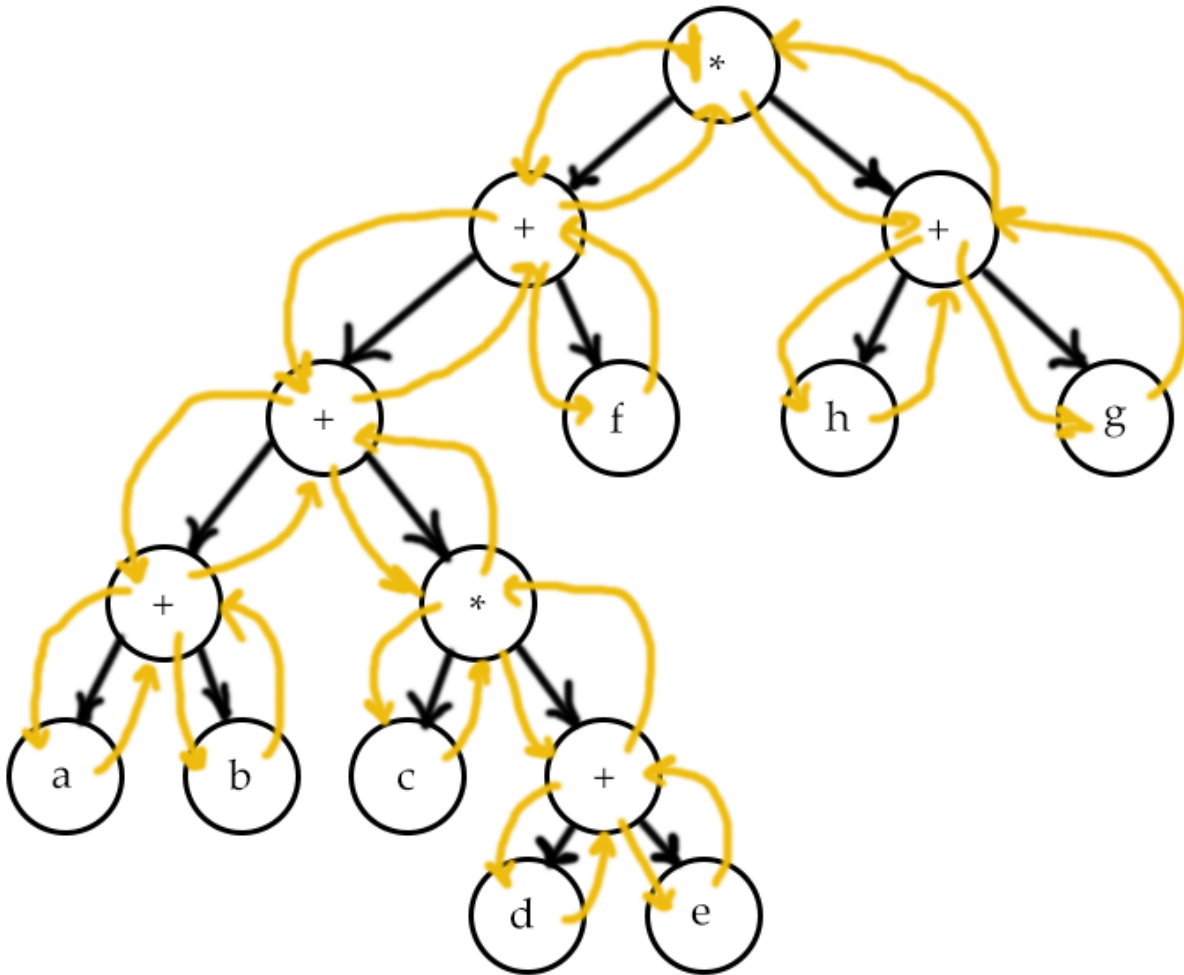


Figure 1. Expression binary tree

Prefix: \*+++ab\*c+def+hg

$$(((a + b) + c * (d + e)) + f) * (g + h)$$



Postfix:  $ab+cde+*+f+hg+*$

$$(( (a + b) + c * (d + e) ) + f) * (g + h)$$

