

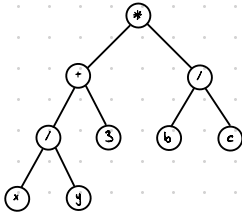
# CS303 Assignment 4

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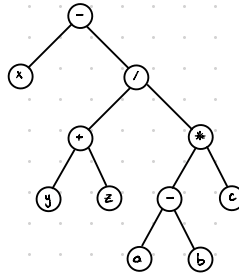
Q1. Draw an expression tree corresponding to each of the following:

- a. Inorder traversal is:  $x / y + 3 * b / c$
- b. Postorder traversal is:  $x y z + a b - c * / -$
- c. Preorder traversal is:  $* + a - x y / c d$

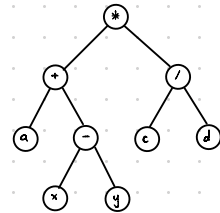
a.) Inorder traversal  
 $x / y + 3 * b / c$



b.) Postorder traversal  
 $x y z + a b - c * / -$



c.) Preorder Traversal  
 $* + a - x y / c d$



Q2. Considered the output of a `to_string` method below and show the tree that would be built by the following data lines is the binary search tree

30  
15  
4  
Null  
20  
18  
Null  
19  
Null  
Null  
Null  
35  
32  
Null  
Null  
38  
Null  
Null

