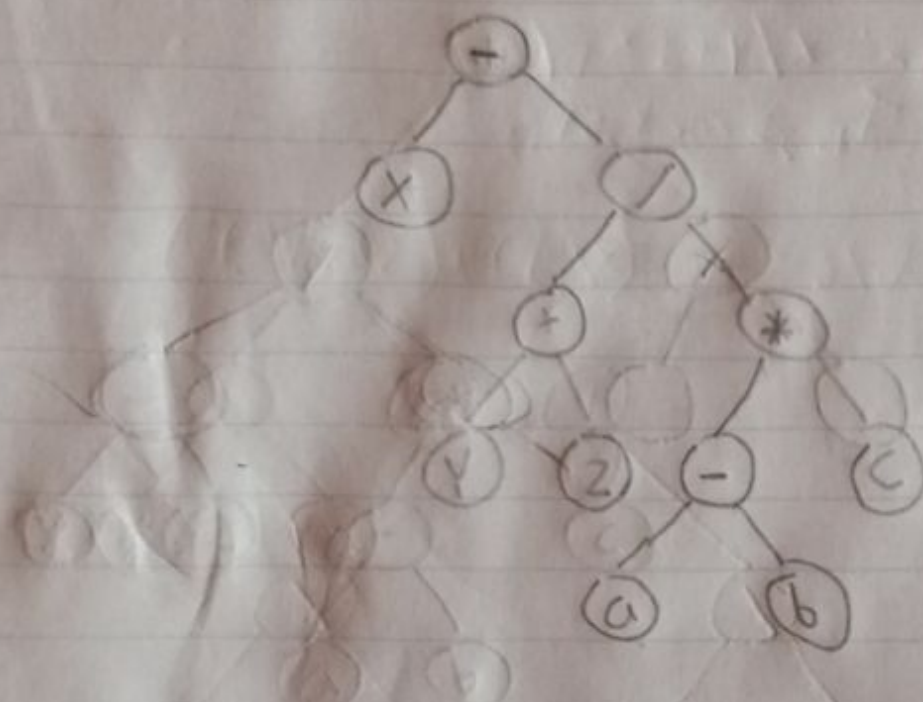


# CS 303 Assignment 4

b) Postorder traversal:  $xyz+ab-c*/-$

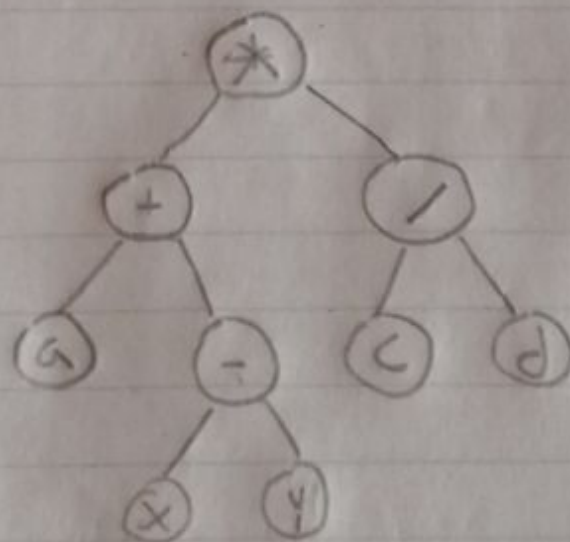
Postorder:  $T_L \rightarrow T_R \rightarrow \text{Root}$

$$xyz+ab-c*/- = ((x - ((y - z) / ((a - b) * c)))$$



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

Preorder:  $\text{root} \rightarrow T_L \rightarrow T_R$

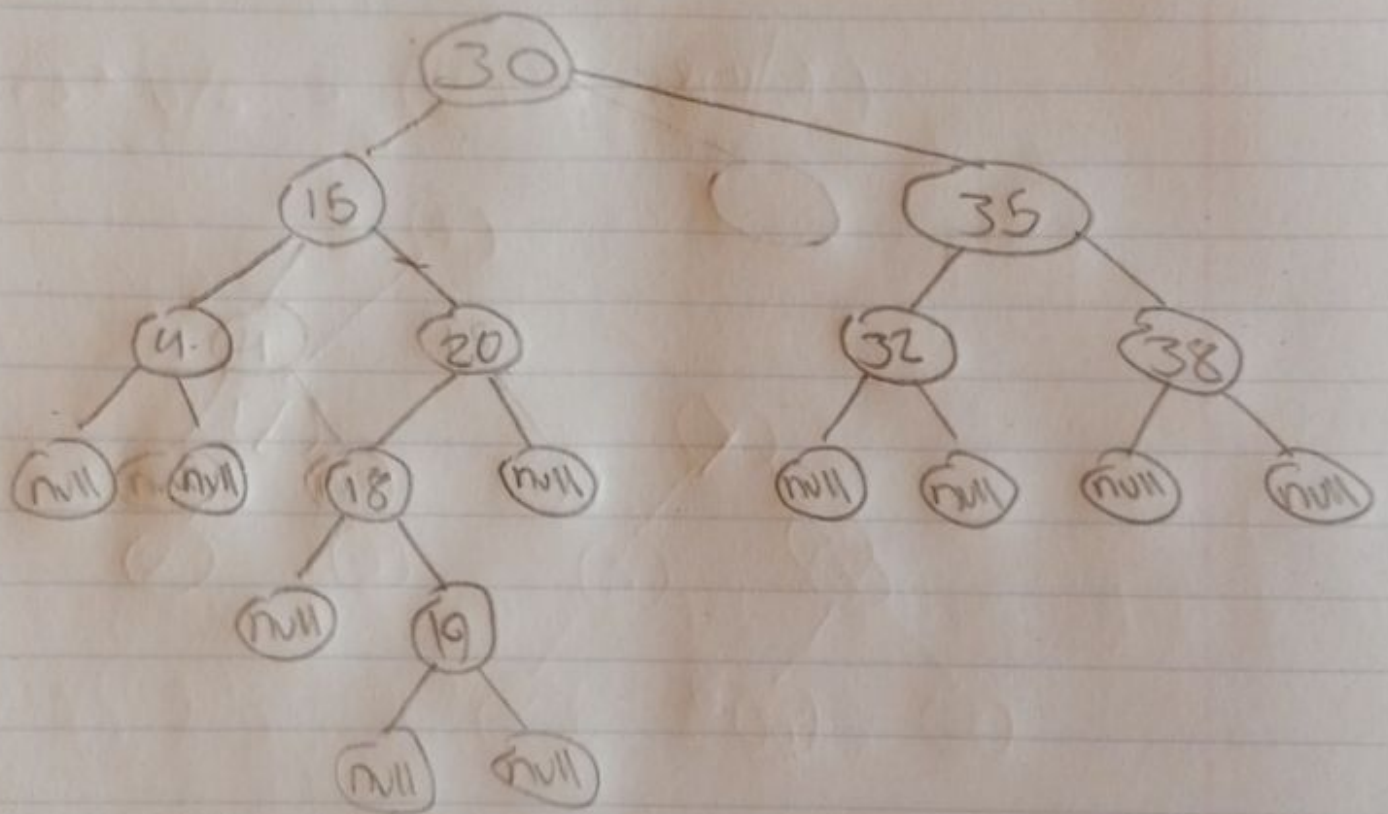


- CS-303 Assignment 4 -

Q2) Consider the output of a toString method below and show the tree that would be built by the following data lines is the binary search tree

30, 15, 4, null, null, 20, 18, null, 19, null, null, null,  
35, 32, null, null, 38, null, null

Preorder Root  $\rightarrow T_L \rightarrow T_R$



Preorder: 30, 15, 4, null, null, 20, 18, null, 19, null, null,  
null, 35, 32, null, null, 38, null, null