(25 points)

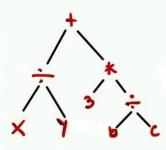
Q1 (15 points) Draw an expression tree corresponding to each of the following:

a) Inorder traversal is: x/y + 3 \* b/c

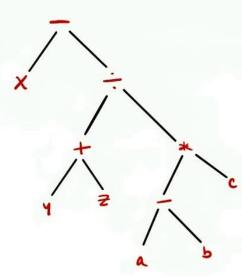
b) Postorder traversal is: x y z + a b - c \* / -

c) Preorder traversal is: \* + a - x y / c d

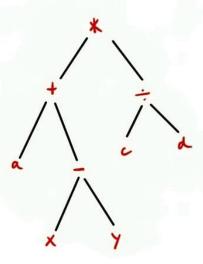
a)



6)



c)



Q2 (10 points) 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

**NULL** 

20

18

NULL

19

NULL

NULL

NULL

35

32

NULL

NULL

38

NULL

NULL

