Analysis Exercise #1

Build:

* Pre order Traversal
* Because the first value read in is going to be the value of the root this was the best solution.

Expression:

* Post order Traversal
* Because to properly put parenthesis around the correct sets we must know both the left and right.

Evaluate:

* Post order Traversal
* You have to do this because you must know the left and right values to do any evaluation.

Clear:

* Post order Traversal
* I did it like this for the fear of if I deleted any other way I would lose access to the leaf nodes creating memory leaks

Analysis Exercise #2

No, they will not create the same output all the time. The second function does not check if the pointer is NULL so this can cause segmentation faults.