

Last trimesters DS1 lab final question:

1. For this problem, you need to use the BST code written in your class.

Implement the function “void delete (int N)” that deletes all nodes of the tree such that  $M \bmod N = 0$ , where M is the value of the node. For example, if  $N = 3$ , the function should delete every node that contains a value divisible by 3.

The node pointed by head is the root node. Your implementation should be as efficient as possible.

Now subtract the smallest integer from each value of the BST and then show all elements in order.

2. For this problem, you need to modify the doubly linked list code from your class.

Implement 2 function void undo () , void redo().

undo function will undone the changes (insert, delete, update) you have made.

redo function will be undone the changes of undo function.

Please keep in mind that multiple occasion of undo and redo should be handled in your code.