

CS221- Data Structures
Assignment 3
[BST+]
Deadline: 21st October 2022 11:59PM
Group Size: Maximum two individuals

Problem Statement:

In this assignment, you have to write a program to that develop an extended version of the Binary Search Tree (BST), named as BST+.

BST+ is the same as BST with an additional feature to store duplicate keys. This is done by having a *count* variable in each node. This variable gets incremented if a duplicate value is inserted in the node and will be decremented in the case of deletion.

Following operations should be supported by BST+

- Node insertion
- Node deletion
- Searching operation
- In-order traversal
- Pre-order traversal
- Post-order traversal

Submission guidelines:

- Please email your assignment at CS221fall2022@gmail.com
- Email subject must be, CS221-A3-RegNo.1-RegNo.2. For example CS221-A3-2021234-2021333
- Your submission file must also be named CS221-A3-RegNo.1-RegNo.2. For example CS221-A3-2021234-2021333