

CS2323 Assignment 2: Binary Search Trees:

In continuation of the same problem as the previous assignment, your friend knows that you like music very much. So s/he gifts you a **file** with a collection of songs. The file contains two lists: one, an inorder traversal and another, the preorder traversal of a binary search tree, where the key is the *song name* as before. The search order is lexicographic order.

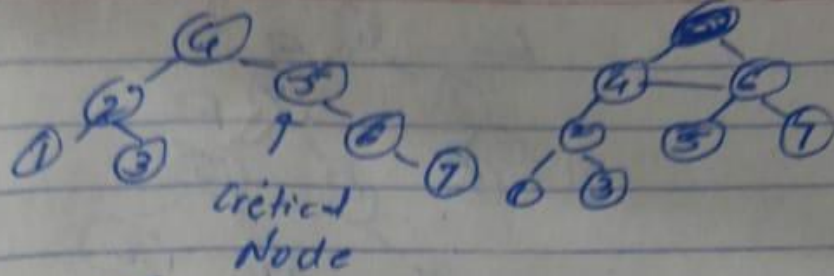
- By reading the file (**5 marks**), you have to construct (**10 marks**) the unique binary search tree that is yielded from the two traversals. This will be your new “library” instead of the linked list that you created in the previous assignment.
- You want to ensure that the library of songs does not contain some songs that you hate. Delete them from the binary search tree (**10 marks**).
- “Create playlist” as an AVL tree (**10 marks**). Implement “Delete from Playlist” also, in case, you change your mind and want to delete some more songs after creating the playlist (**10 marks**).
- “Play/Play Recent k/End” as in the previous assignment, using the same data structure. (**5 marks, for integration effort**)

File format: <inorder;preorder>

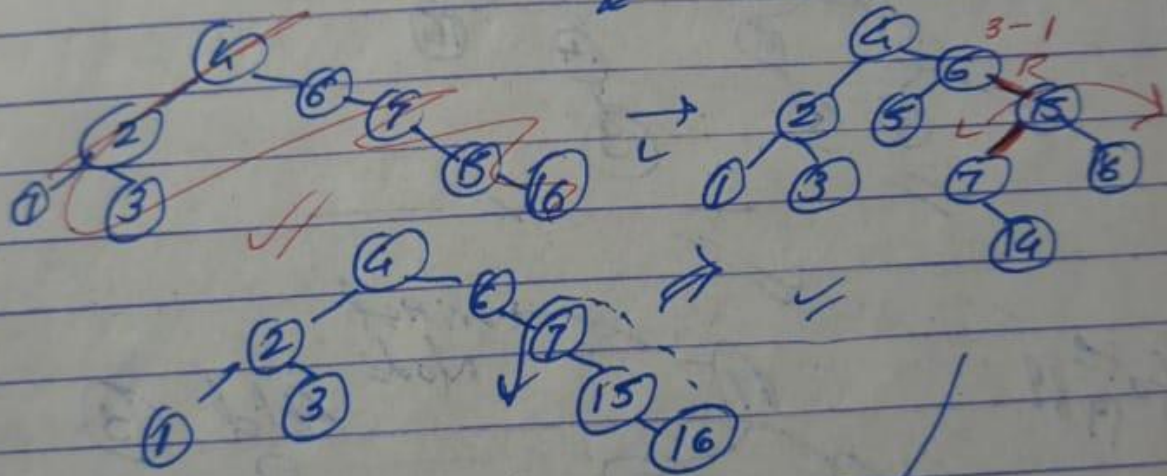
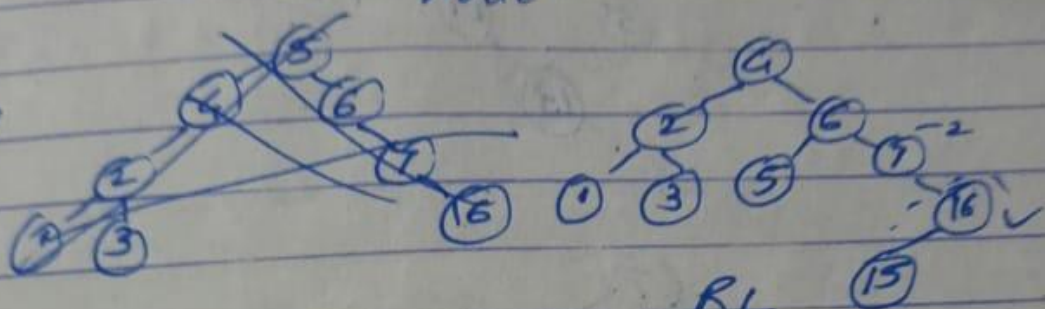
Eg:

S4:S2:S5:S1:S6:S3;S1:S2:S4:S5:S3:S6

Qp 6



Q7



Step 8:-

