**Data Structures**

1. Double Stack:

The following code is for a double stack. It has two separate stacks that are assigned the same array. The sum of maximum elements in both the stacks equals the size of the array. Insertion and deletion in both the arrays can be implemented independently.

1. Binary Tree

The following is the code for a binary search tree. It supports insertion at the designated place, deletion from tree, destruction of tree and searching for an element.

1. Queue

The given code is for a standard queue that supports FIFO strategy and has function for insertion, deletion and for searching.

1. Red-Black Tree

The following code is for a standard Red-Black tree that supports Insertion, Deletion and calculating the depth of the tree.