
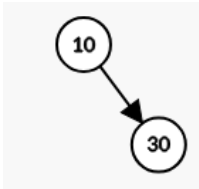
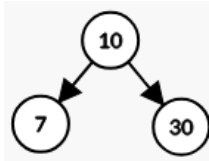
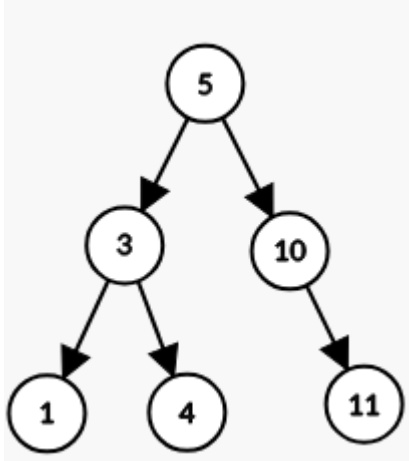


BRAC University (Department of Computer Science and Engineering)**CSE 220 (Data Structures) for Fall 24****Quiz 4****Student ID:****Section:****Full Marks: 15****Name:****Duration: 30 minutes**

1. Simulate a sequence of operations on a Binary Search Tree (BST). Draw the tree after each operation. During delete operation, you can choose swapping with either the predecessor or successor. First three have been given as samples: 1 x 9 = 9

(a) Insert(10) 	(g) Insert(55)
(b) Insert(30) 	(h) Insert(45)
(c) Insert(7) 	(i) Delete(15)
(d) Insert(15)	(j) Insert(3)
(e) Insert(9)	(k) Insert(5)
(f) Delete(10)	(l) Delete(9)

2. Given a **Binary Search Tree** and an integer **K**. You have to **print** the **K-th largest** element in that tree. You can **not** use any data structures other than the given BST. You do **not** have to write the BSTNode class. You can declare helper functions or global variables if required.
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Sample Input	Sample Output
<p>BST =</p>  <p>K = 2</p>	<p>10</p>

Python Notation	Java Notation
<pre>def printKth(root, k): # Your Code Here</pre>	<pre>void printKth(BSTNode root, int k){ # Your Code Here }</pre>