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## 20A05301P Advanced Data Structures and Algorithms Lab

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**Ex.No:1**

**Date:**

**Aim:**

Write a program to implement the following operations on Binary Search Tree

- a) Insert      b) Delete      c) Search      d) Display

**Description:**

- Binary Search Tree is a binary tree in which every node contains only smaller values in its left subtree and only larger values in its right subtree. There must be no duplicate nodes.
- It is called a binary tree because each tree node has a maximum of two children.
- It is called a search tree because it can be used to search for the presence of a number in  $O(\log(n))$  time.

The following operations are performed on a binary search tree...

1. Insertion
2. Search
3. Deletion

**Procedure:**

### 1. Insertion Operation in BST

In a binary search tree, the insertion operation is performed with  $O(\log n)$  time complexity. In binary search tree, new node is always inserted as a leaf node.

The insertion operation is performed as follows...

- Step 1 - Create a newNode with given value and set its left and right to NULL.
- Step 2 - Check whether tree is Empty.
- Step 3 - If the tree is Empty, then set root to newNode.
- Step 4 - If the tree is Not Empty, then check whether the value of newNode is smaller or larger than the node (here it is root node).
- Step 5 - If newNode is smaller than or equal to the node then move to its left child. If newNode is larger than the node then move to its right child.
- Step 6- Repeat the above steps until we reach to the leaf node (i.e., reaches to NULL).

# Data Structures And Algorithms Lab Manual

**Frank Carrano**



## **Data Structures And Algorithms Lab Manual:**

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are carefully and comprehensively discussed      *C++ Data Structures* Brandle,Stefan Brandle,James Robergé,Jonathan Geisler,David Whittington,2010-10-22 *C Data Structures A Laboratory Course Third Edition* exemplifies the active learning experience With a dynamic learn by doing focus this laboratory manual encourages students to explore data structures by implementing them a process through which students discover how data structures work and how they are applied Providing a framework that offers feedback and support this text challenges students to exercise their creativity in both programming and analysis Each online laboratory consists of three parts basic implementation and testing programming exercises and analysis exercises which expertly guide students through every stage and urges them to think critically about their results Click [HERE](#) to download Student Resource Files including Source Code 2009 174 pages      *Data Structures and Abstraction Using C* Geoff Whale,1995-01-01      *Introduction to Data Structures and Algorithm Analysis with Pascal* Thomas L. Naps,George Pothering,1992      **The Art of Getting Computer Science PhD** Emdad Ahmed,2013-02-06 The Art of Getting Computer Science PhD is an autobiographical book where Emdad Ahmed highlighted the experiences that he has gone through during the past 25 years 1988 2012 in various capacities both as Computer Science student as well as Computer Science faculty at different higher educational institutions in USA Australia and Bangladesh This book will be a valuable source of reference for computing professional at large In the 150 pages book Emdad Ahmed tells the story in a lively manner balancing computer science hard job and life      **C & Data Structures: With Lab Manual, 2/e** V.V. Muniswamy,2009-10-17 This book is designed for the way we learn This text is intended for one year or two semester course in C Programming and Data Structures This is a very useful guide for undergraduate and graduate engineering students Its clear analytic explanations in simple language also make it suitable for study by polytechnic students Beginners and professionals alike will benefit from the numerous examples and extensive exercises developed to guide readers through each concept Step by step program code clarifies the concept usage and syntax of C language constructs and the underlying logic of their applications Data structures are treated with algorithms trace of the procedures and then programs All data structures are illustrated with simple examples and diagrams The concept of learning by example has been emphasized throughout the book Every important feature of the language is illustrated in depth by a complete programming example Wherever necessary pictorial descriptions of concepts are included to facilitate better understanding The common C programs for the C Data Structures Laboratory practice appended at the end of the book is a new feature of this edition Exercises are included at the end of each chapter The exercises are divided in three parts i multiple choice questions which test the understanding of the fundamentals and are also useful for taking competitive tests ii questions and answers to help the undergraduate students and iii review questions and problems to enhance the comprehension of the subject Questions from GATE in Computer Science and Engineering are included to support the students who will be taking GATE examination

**C++ Data Structures: A Laboratory Course** Stefan Brandle,James Robergé,Jonathan Geisler,David

Whittington,2008-02-22 C Data Structures A Laboratory Course Third Edition exemplifies the active learning experience With a dynamic learn by doing focus this laboratory manual encourages students to explore data structures by implementing them a process through which students discover how data structures work and how they are applied Providing a framework that offers feedback and support this text challenges students to exercise their creativity in both programming and analysis Each online laboratory consists of three parts basic implementation and testing programming exercises and analysis exercises which expertly guide students through every stage and urges them to think critically about their results Click [HERE](#) to download Student Resource Files including Source Code 2009 174 pages      **A Laboratory Course in C++** Nell Dale,2009-06-12      **Laboratory Manual for Data Structures** Ronald E. Prather,1990      **Lab Manual** Walter Savitch,Charles Hoot,2004-05      **ADTs, Data Structures, and Problem Solving with C++** Larry Nyhoff,2005-06      **Laboratory Manual for Program Design and Introductory Data Structures** Thomas L. Naps,Carol W. Wilson,1994-11-01      **Programming in C++** Nell B. Dale,Chip Weems,Mark R. Headington,1998 Computer Science      *Understanding Program Design and Data Structures with C++* Kenneth Alfred Lambert,Thomas L. Naps,1996 This text provides coverage of object oriented programming while introducing advanced programming and software engineering concepts and techniques along with basic data structures Problem solving is emphasized throughout the text through numerous exercises programming problems and projects It also includes module specifications structure charts Note of Interest boxes Focus on Program Design boxes and running debugging and testing tips This book corresponds to chapters 11 19 of Lambert Nance and Nap s Introduction to Computer Science with C      **Introduction to Program Design and Data Structures** Thomas L. Naps,1993      **C++ Plus Data Structures** Nell B. Dale,1999 Written as a second semester text which focuses on abstract data types from three perspectives specification application and implementation Within this focus the author stresses computer science theory and software engineering principles using chapter exercises case studies and programming as

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