

DS LAB PROGRAMS(18CSL38)

1) Design, Develop and Implement a menu driven Program in C for the following Array operations

- a. Creating an Array of N Integer Elements
- b. Display of Array Elements with Suitable Headings
- c. Inserting an Element (ELEM) at a given valid Position (POS)
- d. Deleting an Element at a given valid Position(POS)
- e. Exit.

Support the program with functions for each of the above operations.

```
#include<stdio.h>
#include<stdlib.h>
int a[6], n, elem, i, pos;
void create()
{
    printf("\nEnter the size of the array elements: ");
    scanf("%d", &n);
    printf("\nEnter the elements for the array:\n");
    for(i=0; i<n; i++)
        scanf("%d", &a[i]);
}

void display()
{
    int i;
    printf("\nThe array elements are:\n");
    for(i=0; i<n; i++)
    {
        printf("%d\t", a[i]);
    }
}

void insert()
{
    printf("\nEnter the position for the new element: ");
    scanf("%d", &pos);
    printf("\nEnter the element to be inserted: ");
    scanf("%d", &elem);
    for(i=n-1; i>=pos; i--)
    {
        a[i+1] = a[i];
    }
    a[pos] = elem;
```

Data Structures Lab Manual Programas Vtu Syllabus

William Joseph Collins



Data Structures Lab Manual Program as Vtu Syllabus:

Lab Manual for Data Structures and Abstractions with Java Frank Carrano, 2011-10-28 **PROGRAMMING and DATA STRUCTURES - II** Ashok Kumar R, Thillaiarasu N, Ranjithkumar S, 2017-04-06 This laboratory manual is prepared by S Ranjithkumar AP Department of Computer Science and Engineering for PROGRAMMING DATA STRUCTURES LABORATORY II CS 6311 This lab manual can be used as instructional book for students staff and instructors to assist in performing and understanding the experiments In this manual experiments as per syllabus are described and additionally the pre requisite and viva voce questions are displayed **Laboratory Manual for Data Structures and Algorithm Analysis C++** **Version** Thomas L. Naps, 1995-01-01 **C & Data Structures** Muniswamy, 2007 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 engineering and graduate 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 application 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 Exercises are included at the end of each chapter The exercises are divided into 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 these help the undergraduate students and iii review questions and problems 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 **Laboratory Manual for Data Structures** Ronald E. Prather, 1990
Data Structures and the Standard Template Library William Joseph Collins, 2003 Data Structures and the Standard Template Library by William Collins teaches the fundamentals of Data Structures and their implementations It uses C as the language of instruction Most of the data structures are provided in the Standard Template Library STL which students will be able to use in their further coursework and beyond To further students understanding of implementation issues alternative implementation other than the STL are also discussed Hands on learning is promoted throughout the text by the use of Programming Projects and labs Programming projects at the end of each chapter allow students to develop and implement their own data structures or to extend or apply data structures introduced in the chapter Additionally optional labs accompany the text and allow students to practice by giving them opportunities to code These labs can be used in many different ways such as in a closed lab in an open lab or for optional homework assignments Instructor's Manual to

Accompany An Introduction to Data Structures with Applications Jean-Paul Tremblay,1976 *Advanced Data Structures* Suman Saha,Shailendra Shukla,2019-06-28 Advanced data structures is a core course in Computer Science which most graduate program in Computer Science Computer Science and Engineering and other allied engineering disciplines offer during the first year or first semester of the curriculum The objective of this course is to enable students to have the much needed foundation for advanced technical skill leading to better problem solving in their respective disciplines Although the course is running in almost all the technical universities for decades major changes in the syllabus have been observed due to the recent paradigm shift of computation which is more focused on huge data and internet based technologies Majority of the institute has been redefined their course content of advanced data structure to fit the current need and course material heavily relies on research papers because of nonavailability of the redefined text book advanced data structure To the best of our knowledge well known textbook on advanced data structure provides only partial coverage of the syllabus The book offers comprehensive coverage of the most essential topics including Part I details advancements on basic data structures viz cuckoo hashing skip list tango tree and Fibonacci heaps and index files Part II details data structures of different evolving data domains like special data structures temporal data structures external memory data structures distributed and streaming data structures Part III elucidates the applications of these data structures on different areas of computer science viz network www DBMS cryptography graphics to name a few The concepts and techniques behind each data structure and their applications have been explained Every chapter includes a variety of Illustrative Problems pertaining to the data structure s detailed a summary of the technical content of the chapter and a list of Review Questions to reinforce the comprehension of the concepts The book could be used both as an introductory or an advanced level textbook for the advanced undergraduate graduate and research programmes which offer advanced data structures as a core or an elective course While the book is primarily meant to serve as a course material for use in the classroom it could be used as a starting point for the beginner researcher of a specific domain *ADTs, Data Structures, and Problem Solving with C++* Larry Nyhoff,2005-06 *Data structures and algorithms* Marius Joldos,Iosif Ignat,2003

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