

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;
```

Vtu Data Structures Cse Lab Manual

William Joseph Collins



Vtu Data Structures Cse Lab Manual:

National Union Catalog, 1981 Programming in C and Introduction to Data Structures Thyagaraju Gowda, 2015-12-01
The Book has been written to satisfy the need of First year B E students of VTU as per revised 2015 Modules based Syllabus. It is written in simple English language like class notes so that the concepts can be understood easily by both fast learner as well as slow learner. It includes the concepts beyond the syllabus and model question bank for IT companies placement interview. The book covers the syllabus like introduction to C fundamental concepts of C control statements looping statements arrays strings functions structures files pointers dynamic memory allocation and introduction to data structures. In addition, the book includes a good number of all type of programming examples lab manual viva questions old VTU question papers model question paper and Question bank for practice. **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.

National Union Catalog, 1980, 1981 Reverse Acronyms, Initialisms, & Abbreviations Dictionary, 1983 *Laboratory Manual for Data Structures* Ronald E. Prather, 1990 **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

ADTs, Data Structures, and Problem Solving with C++ Larry Nyhoff,2005-06 *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 Ronald Prather Horowitz,

Alexandra Eve Julius Tony,Ronald E. Prather,1990-09-01 **Data Structures in C++ Including Breadth and Laboratories** Angela B. Shiflet,1995-09 Data Structures in C Including Breadth and Laboratories integrates laboratory exercises problem solving skills and breadth sections covering non programming aspects of computer science into the study of data structures An appendix on non object oriented features of C helps students from a C background get up to speed and Chapter 4 presents the aspects of OOP in C that students need in studying data structures Other aids to learning include Programming Projects over 1 000 exercises and numerous figures Laboratory programs and data files data structure implementations and program examples from the text are available via the World Wide Web **Data structures and**

algorithms Marius Joldos,Iosif Ignat,2003 *C Plus Plus Data Structures* Stefan Brandle,2008 **Data Structures And Algorithms** Harry. H. Chaudhary.,2014-10-01 Features of Book Essential Data Structures Skills Made Easy All Code Algo written in C Programming Learn with Fun strategy Anyone can comfortably follow this book to Learn DSA Step By Step Unique strategy Concepts Problems Analysis Questions Solutions Why This Book This book gives a good start and complete introduction for data structures and algorithms for Beginner s While reading this book it is fun and easy to read it This book is best suitable for first time DSA readers Covers all fast track topics of DSA for all Computer Science students and Professionals Learn all Concept s Clearly with World Famous Programmer Harry Chaudhary Main Objective Data structures is concerned with the storage representation and manipulation of data in a computer In this book we discuss some of the more versatile and popular data structures used to solve a variety of useful problems Among the topics are linked lists stacks

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Data Structures and Abstraction Using C Lab Man Geoff Whale,1995-10-01 **Instructors Manual to Data Structures and Problem Solving with Tu** James Robert LaBonté, Frank M. Carrano,1993 [Data Structures in C++](#) Jim Robergé,1995

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