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.

```c
#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 Vtu Lab Manual

Wayne Amsbury

Data Structures Vtu Lab Manual:

Lab Manual for Data Structures and Abstractions with Java Frank Carrano,2011-10-28   *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 understand 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 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   **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 **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   Monthly Index of Russian Accessions Library of Congress. Processing Department,1958   **Monthly Index of Russian Accessions** ,1958   **Agrindex** ,1992   *Data Structures in Java* Sandra Andersen,2002 Data Structures Theory of Computation   **ADTs, Data Structures, and Problem Solving with C++** Larry Nyhoff,2005-06   *Exercise Manual: Data Structures and PL/1 Programming* Moshe J. Augenstein,Aaron M. Tenenbaum,1979   *Data Structures* Wayne Amsbury,1985   Bibliography of Agriculture ,1991-03   Data Structures and Abstraction Using C Lab Man Geoff Whale,1995-10-01   **The Book on Data Structures** David R. Richardson,2002-07-31 The study of data structures is one of the most important for beginning and advanced students studying the theory of computer science This is a comprehensive guide designed to teach the principles and applications of data structures in a structured format While other books require you to have an intimate knowledge of a particular programming language this book teaches this intriguing facet of computer science in a language independent manner In this first volume we will discuss all of the important facts and concepts that you would encounter in a data structures 1 course This makes this particular guide an excellent reference for the student Also with the addition of chapter exercises this text makes an excellent text book for an undergraduate course in data structures   **Instructors Manual to Data Structures and Problem Solving with Tu** James Robert LaBonté,Frank M. Carrano,1993   Data Structures and Algorithm Analysis in C++ Mark Allen Weiss,2006 Mark Allen Weiss innovative approach to algorithms and data structures teaches the simultaneous development of sound analytical and programming skills for the advanced data structures course Readers learn how to reduce time constraints and develop programs efficiently by analyzing the feasibility of an algorithm before it is coded The C language is brought up to date and simplified and the Standard Template Library is now fully incorporated throughout the text This Third Edition also features significantly revised

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