3) Design, Develop and Implement a menu driven Program in C for the following operations on STACK of Integers (Array Implementation of Stack with maximum size MAX)

a. Push an Element on to Stack
b. Pop an Element from Stack
c. Demonstrator how Stack can be used to check Palindrome
d. Demonstrate Overflow and Underflow situations on Stack
e. Display the status of Stack
f. Exit

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

```c
#include <stdio.h>
#include<stdlib.h>
#define MAX 5
int stack[MAX], item, ch, top=-1, status=0;
void push(int stack[],int item)
{
  if(top==(MAX-1))
    printf("\nOverflow\n");
  else
    stack[++top]=item;
    status++;
}

int pop()
{
  if(top==-1)
  printf("\nUnderflow\n");
  else
  return stack[top--];
  status--;
}

void palindrome(int stack[])
{
int temp, count=0;
temp=top;
for(i=0;i<=temp;i++)
{
if(stack[i]==pop())
count++;
}
if(count==temp)
printf("Palindrome\n");
else
printf("not palindrome\n");
}

void display(int stack[])
{
```

Vtu 3rd Sem Data Structures Lab Manual

Harry. H. Chaudhary.

Vtu 3rd Sem Data Structures Lab Manual:

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 **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 **Laboratory Manual for Data Structures** Ronald E. Prather,1990 *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 **ADTs, Data Structures, and Problem Solving with C++** Larry Nyhoff,2005-06 *Ronald Prather* Horowitz, Alexandra Eve Julius Tony,Ronald E. Prather,1990-09-01 Data structures and algorithms Marius Joldos,Iosif Ignat,2003 **Data Structures in C++** Jim Robergé,1995 **Data Structures and Abstraction Using C Lab Man** Geoff Whale,1995-10-01 **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 STRUCTURE AND ALGORITHMS, MADE EASY. Harry. H. Chaudhary.,2014-06-02 Essential Data Structures Skills Made Easy 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 Data Structures and Other Objects Using C or C takes a gentle approach to the data structures course in C Providing an early text gives students a firm grasp of key concepts and allows those experienced in another language to adjust easily Flexible by design Finally a solid foundation in building and using abstract data types is also provided Using C this book develops the concepts and theory of data structures and algorithm analysis in a gradual step by step manner proceeding from concrete examples to abstract principles Standish covers a wide range of Both traditional and contemporary software engineering topics This is a handy guide of sorts for any computer science engineering Students Data Structures And Algorithms is a solution bank for various complex problems related to data structures and algorithms It can be used as a reference manual by Computer Science Engineering students this Book also covers all aspects of B TECH CS IT and BCA and MCA BSC IT Inside Chapters 1 Introduction 2 Array 3 Matrix 4 Sorting 5 Stack 6 Queue 7 Linked List 8 Tree 9 Graph 10 Hashing 11 Algorithms 12 Misc Topics 13 Problems **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 **Data Structures** Wayne Amsbury,1985 **C Plus Plus Data Structures** Stefan Brandle,2008 **A Data Structures Lab for Use in a Breadth-first Introduction to Computer Science** Jeffrey Howard Rugg,1997 **Data Structures and Algorithms Implementation through C** Dr. Brijesh Bakariya,2020-01-17 Book with a practical approach for understanding the basics and concepts of Data Structure DESCRIPTION Book gives full understanding of theoretical topic and easy implementation of data structures through C The book is going to help students in self learning of data structures and in understanding how these concepts are implemented in programs Algorithms are included to clear the concept of data structure Each algorithm is explained with figures to make student clearer about the concept Sample data set is taken and step by step execution of algorithm is provided in the book to ensure the in depth knowledge of students about the concept discussed KEY FEATURES This book is especially designed for beginners explains all basics and concepts about data structure Source code of all data structures are given in C language Important data structures like Stack Queue Linked List Tree and Graph are well explained Solved example frequently asked in the examinations are given which will serve as a useful reference source Effective description of sorting algorithm Quick Sort Heap Sort Merge Sort etc WHAT WILL YOU LEARN _ New features and essential of Algorithms and Arrays _ Linked List its type and implementation _ Stacks and Queues _ Trees and Graphs _ Searching and Sorting _ Greedy method _ Beauty of Blockchain WHO THIS BOOK IS FOR This book is specially designed to serve as textbook for the students of various streams such as PGDCA B Tech B E BCA BSc M Tech M E MCA MS and cover all the topics of Data Structure The subject data structure is of prime importance for the students of Computer Science and IT It is practical approach for understanding the basics and concepts of data structure All the concepts are implemented in C language in an easy manner To make clarity on the topic diagrams examples and programs are given throughout the book Table of Contents 1 Algorithm and Flowcharts 2 Algorithm Analysis 3 Introduction to Data structure 4 Functions and Recursion 5 Arrays and Pointers 6 String 7 Stack 8 Queues 9 Linked Lists 10 Trees 11 Graphs 12 Searching 13 Sorting 14 Hashing **Instructors Manual to Data Structures and Problem Solving with Tu** James Robert LaBonté,Frank M. Carrano,1993 **Data Structures and Algorithms 3** K. Mehlhorn,2012-12-06 **Data Structures in Depth Using C++** Mahmmoud Mahdi,2025-03-06 Understand and implement data structures and bridge the gap between theory and application This book covers a wide range of data structures from basic arrays and linked lists to advanced trees and graphs

providing readers with in depth insights into their implementation and optimization in C You ll explore crucial topics to optimize performance and enhance their careers in software development In today s environment of growing complexity and problem scale a profound grasp of C data structures including efficient data handling and storage is more relevant than ever This book introduces fundamental principles of data structures and design progressing to essential concepts for high performance application Finally you ll explore the application of data structures in real world scenarios including case studies and use in machine learning and big data This practical step by step approach featuring numerous code examples performance analysis and best practices is written with a wide range of C programmers in mind So if you re looking to solve complex data structure problems using C this book is your complete guide What You Will Learn Write robust and efficient C code Apply data structures in real world scenarios Transition from basic to advanced data structures Understand best practices and performance analysis Design a flexible and efficient data structure library Who This Book is For Software developers and engineers seeking to deepen their knowledge of data structures and enhanced coding efficiency and ideal for those with a foundational understanding of C syntax Secondary audiences include entry level programmers seeking deeper dive into data structures enhancing their skills and preparing them for more advanced programming tasks Finally computer science students or programmers aiming to transition to C may find value in this book

Reviewing **Vtu 3rd Sem Data Structures Lab Manual**: Unlocking the Spellbinding Force of Linguistics

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