# LAB MANUAL On Data Structures using C Lab For MCA 2<sup>nd</sup> Semester of VTU

#### Instructions to the Readers:

- This document is a useful material for the 2<sup>nd</sup> Semester MCA students (2013 Scheme – 13MCA26) of Visvesvaraya Technological University, Belagavi, Karnatka.
- Though these programs are compiled and verified on Turbo C compiler, they can be executed on different C compilers with little/no modifications.
- Additional explanation for the program is provided, wherever necessary. However, it
  is advised to know the theory concepts by referring to the respective subject notes
  (available in the website).
- Clarifications/suggestions are welcome!!

#### 1. Convert a valid prefix expression into postfix expression.

#### Logic of the program:

- Read a valid prefix expression from the keyboard as a string variable.
- Reverse this string (use strrev() function)
- Read every character from the reversed prefix expression (say, sym)
- Store the single character sym into a string variable temp by attaching null character (0) to it.
- If the sym is an operator (like +, etc), pop two entries from the stack. Concatenate
  these two popped strings and also the sym. Push the concatenated string (postfix)
  (op1+op2+sym) into the stack.
- If the sym was not an operator (means, it will be an alphabet/digit) then push the temp into the stack.
- Repeat the above steps till the end of prefix expression (strlen(prefix)).
- You will get the required postfix expression in the variable postfix.

Note: Students are advised to give only valid prefix expression as an input to get the correct result. One can write an infix expression on a paper and convert it into prefix format manually and then it can be given as input to the program.

# **Data Structure Lab Manual Vtu For Mca**

Joseph Bergin

#### **Data Structure Lab Manual Vtu For Mca:**

Lab Manual for Data Structures and Abstractions with Java Frank Carrano, 2011-10-28 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. PROGRAMMING and DATA STRUCTURES - II Ashok Kumar R, Thillaiarasu N, Ranjithkumar Naps.1995-01-01 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 ADTs, Data Structures, and Problem Solving with C++ Larry Data Structures Ronald E. Prather, 1990 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 Lab Manual, 2022-12-28 This book is about lab manuals of Computer Science and Engineering in Data Science department This book is designed to give complete description about the methodology to perform lab experiments This book comprises of 13 sections of different courses Data Structure lab CSL 301 Digital Logic and Computer Architecture lab CSL 302 Computer Graphics lab CSL 303 Object Oriented Programming with Java lab CSL 304 Analysis of algorithm lab CSL 401 Database Management System lab CSL 402 Operating System lab CSL 403 Microprocessor lab CSL 404 Python Programming lab CSL 405 Web Computing and Network lab CSL 501 Artificial Intelligence lab CSL 502 Data Warehousing and Mining lab CSL 503 Cloud Computing lab CSL 605 Different platforms that have been used to perform experiments are TurboC Cisco Packet Tracer Node JS JDK 1 7 Weka tool Open Refine Jupiter MySQL PyCharm GeNle Modeler Each section of book consists of 10 15 experiments Each lab experiment is organized with aim problem statement resources required theory and conclusion To analyze the performance and to enhance the knowledge of students a separate section of multiple choice questions has been included in the book at the end of each experiment Lab Manual to Accompany Adt's, Data Structures and Problem Solving with C++. Larry R. Nyhoff, 2005 Ronald Prather Horowitz. Alexandra Eve Julius Tony, Ronald E. Prather, 1990-09-01 Data Structures in Java Sandra Andersen, 2002 Data Structures Theory of Computation Data Structures N. K. Tiwari, Jitendra Agrawal, Shishir K. Shandilya, 2016-03 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 GUIDE**. 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

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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 Structure Programming Joseph Bergin, 2012-12-06 Once programmers have grasped the basics of object oriented programming and C the most important tool that they have at their disposal is the Standard Template Library STL This provides them with a library of re usable objects and standard data structures It has recently been accepted by the C Standards Committee This textbook is an introduction to data structures and the STL It provides a carefully integrated discussion of general data structures and their implementation and use in the STL In so doing the author is able to teach readers the important features of abstraction and how to develop applications using the STL Data Structures Edward M. Reingold, Wilfred J. Hansen, 1983 Data structures are central to computer science and in particular to programming In the analytic areas appropriate data structures have been the key to advances in the design of algorithms Once appropriate data structures are carefully defined all that remains is routine coding A comprehensive understanding of data structure techniques is essential in the design of algorithms and programs This text presents a carefully chosen fraction of available material but supplement it with a wide variety of exercises No single book can discuss all known data structures or algorithms This text presents the art of designing data structures preparing the student to devise special purpose structures for specific problems as they present themselves **Data Structures and** Abstraction Using C Lab Man Geoff Whale,1995-10-01

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