



SECOND EDITION

Data Structures Using C

A. K. Sharma

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Data Structures Using C And C 2nd Edition

Kunal Pimparkhede



Data Structures Using C And C 2nd Edition:

Data Structure Using C++ N. Kashivishwanath, 2007

CLASSIC DATA STRUCTURES, 2nd ed. Samanta

Debasis, 2008-12-01 This book is the second edition of a text designed for undergraduate engineering courses in Data Structures. The treatment of the subject matter in this second edition maintains the same general philosophy as in the first edition but with significant additions. These changes are designed to improve the readability and understandability of all algorithms so that the students acquire a firm grasp of the key concepts. This book is recommended in Assam Engineering College, Assam; Girijananda Chowdhury Institute of Management and Technology, Assam; Supreme Knowledge Foundation, Group West Bengal; West Bengal University of Technology, WBUT for B Tech. The book provides a complete picture of all important data structures used in modern programming practice. It shows various ways of representing a data structure, different operations to manage a data structure, several applications of a data structure. The algorithms are presented in English-like constructs for ease of comprehension by students, though all of them have been implemented separately in C language to test their correctness. Key Features: Red black tree and spray tree are discussed in detail. Includes a new chapter on Sorting. Includes a new chapter on Searching. Includes a new appendix on Analysis of Algorithms for those who may be unfamiliar with the concepts of algorithms. Provides numerous section-wise assignments in each chapter. Also included are exercises, Problems to Ponder in each chapter to enhance learning. The book is suitable for students of i) computer science, ii) computer applications, iii) information and communication technology, ICT, iv) computer science and engineering.

DATA STRUCTURES A PROGRAMMING APPROACH WITH C, SECOND EDITION KUSHWAHA, DHARMENDER SINGH, MISRA, ARUN KUMAR, 2014-10-01 This well-organized book, now in its second edition, discusses the fundamentals of various data structures using C as the programming language. Beginning with the basics of C, the discussion moves on to describe Pointers, Arrays, Linked lists, Stacks, Queues, Trees, Heaps, Graphs, Files, Hashing, and so on, that form the base of data structure. It builds up the concept of Pointers in a lucid manner with suitable examples which form the crux of Data Structures. Besides updated text and additional multiple-choice questions, the new edition deals with various classical problems such as 8 queens problem, towers of Hanoi, minesweeper, lift problem, tic-tac-toe, and Knapsack problem, which will help students understand how real-life problems can be solved by using data structures. The book exhaustively covers all important topics prescribed in the syllabi of Indian universities/institutes, including all the Technical Universities and NITs. Primarily intended as a text for the undergraduate students of Engineering, Computer Science, Information Technology, and postgraduate students of Computer Application, MCA, and Computer Science M.Sc., the book will also be of immense use to professionals engaged in the field of computer science and information technology. Key Features: Provides more than 160 complete programs for better understanding. Includes over 470 MCQs to cater to the syllabus needs of GATE and other competitive exams. Contains over 500 figures to explain various algorithms and concepts. Contains solved examples and

programs for practice Provides companion CD containing additional programs for students use

Data Structure Using C++ N. Jayalakshmi,2007

Data Structures and Algorithms in JavaScript Federico Kereki,2025-01-28 Not the Same Old JavaScript Think you know JavaScript Think again This isn't your typical coding book it's a deep dive into the powerful world of data structures and algorithms that will transform the way you approach problem solving in JavaScript Whether you're a frontend developer tackling complex applications a backend engineer building scalable systems or a programmer preparing for technical interviews this book will revolutionize the way you code Key features include Modern JavaScript techniques Use the latest language features and functional programming principles for cleaner more efficient code Performance focused approach Analyze and optimize algorithms using Big O notation Essential algorithms explained Implement and fine tune core algorithms like quicksort merge sort digital search and binary search Algorithm design strategies Solve challenging problems with techniques like recursion dynamic programming backtracking and brute force search Advanced data structures Explore complex structures such as binary search trees heaps and graphs Each chapter is carefully crafted with clear no nonsense explanations of complex concepts real world coding examples and challenging questions with answers at the end to reinforce your understanding Ready to break free from ordinary JavaScript Whether your aim is to build cutting edge web applications optimize critical systems or land your dream job this book equips you with the advanced JavaScript knowledge that sets true experts apart

Computer Programming with C++ Kunal Pimparkhede,2017-01-16 This textbook provides in depth coverage of the fundamentals of the C and C programming languages and the object oriented programming paradigm It follows an example driven approach to facilitate understanding of theoretical concepts Essential concepts including functions arrays pointers and inheritance are explained while complex topics such as dynamic memory allocation object slicing vtables and upcasting and downcasting are examined in detail Concepts are explained with the help of line diagrams student teacher conversations and flow charts while other useful features such as quiz questions and points to remember are included Solved examples review questions and useful case studies are interspersed throughout the text and explanations of the logic used to implement particular functionality is also provided This book will be useful for undergraduate students of computer science and engineering and information technology

Data Abstraction and Structures Using C++ Mark R. Headington,David D. Riley,1994

Data Structures using C, 2e A.K. Sharma,2013 A data structure is the logical organization of a set of data items that collectively describe an object Using the C programming language Data Structures using C describes how to effectively choose and design a data structure for a given situation or problem The book has a balance between the fundamentals and advanced features supported by solved examples This book completely covers the curriculum requirements of computer engineering courses

High Performance Data Network Design Tony Kenyon,2002-01-22 High Performance Data Network Design contains comprehensive coverage of network design performance and availability Tony Kenyon provides the tools to solve

medium to large scale data network design problems from the ground up He lays out a practical and systematic approach that integrates network planning research design and deployment using state of the art techniques in performance analysis cost analysis simulation and topology modeling The proliferation and complexity of data networks today is challenging our ability to design and manage them effectively A new generation of Internet e commerce and multimedia applications has changed traditional assumptions on traffic dynamics and demands tight quality of service and security guarantees These issues combined with the economics of moving large traffic volumes across international backbones mean that the demands placed on network designers planners and managers are now greater than ever before High Performance Data Network Design is a must have for anyone seriously involved in designing data networks Together with the companion volume Data Networks Routing Security and Performance Optimization this book gives readers the guidance they need to plan implement and optimize their enterprise infrastructure Provides real insight into the entire design process Includes basic principles practical advice and examples of design for industrial strength enterprise data networks Integrates topics often overlooked backbone optimization bottleneck analysis simulation tools and network costing

Database Systems S. K. Singh, 2011 The second edition of this bestselling title is a perfect blend of theoretical knowledge and practical application It progresses gradually from basic to advance concepts in database management systems with numerous solved exercises to make learning easier and interesting New to this edition are discussions on more commercial database management systems

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