



# Object Oriented Data Structures

Using C++

K S EASWARAKUMAR



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# Object Oriented Data Structures Using C

**Michael Main, Walter J. Savitch**



## **Object Oriented Data Structures Using C:**

**Object-Oriented Data Structures Using Java** Dale, Daniel T. Joyce, Chip Weems, 2016-09 Object Oriented Data Structures Using Java Fourth Edition presents traditional data structures and object oriented topics with an emphasis on problem solving theory and software engineering principles **Objects, Abstraction, Data Structures and Design** Elliot B. Koffman, Paul A. T. Wolfgang, 2005-10-20 Koffman and Wolfgang introduce data structures in the context of C programming They embed the design and implementation of data structures into the practice of sound software design principles that are introduced early and reinforced by 20 case studies Data structures are introduced in the C STL format whenever possible Each new data structure is introduced by describing its interface in the STL Next one or two simpler applications are discussed then the data structure is implemented following the interface previously introduced Finally additional advanced applications are covered in the case studies and the cases use the STL In the implementation of each data structure the authors encourage students to perform a thorough analysis of the design approach and expected performance before actually undertaking detailed design and implementation Students gain an understanding of why different data structures are needed the applications they are suited for and the advantages and disadvantages of their possible implementations Case studies follow a five step process problem specification analysis design implementation and testing that has been adapted to object oriented programming Students are encouraged to think critically about the five step process and use it in their problem solutions Several problems have extensive discussions of testing and include methods that automate the testing process Some cases are revisited in later chapters and new solutions are provided that use different data structures The text assumes a first course in programming and is designed for Data Structures or the second course in programming especially those courses that include coverage of OO design and algorithms A C primer is provided for students who have taken a course in another programming language or for those who need a review in C Finally more advanced coverage of C is found in an appendix Course Hierarchy Course is the second course in the CS curriculum Required of CS majors Course names include Data Structures and Data Structures Algorithms **Object Oriented Data Structures** K. S. Easwarakumar, 2000-12-01

**C++** Saumyendra Sengupta, Carl P. Korobkin, 1994-03-11 This book presents a broad coverage of fundamental and advanced concepts of data structure and algorithms It provides readers with a modern synthesis of concepts with examples of practical applications C is used throughout to illustrate the construction and use of abstract data types and to demonstrate object oriented implementations Disk contains all the C codes from the book 165 illus **Object-Oriented Data**

**Structures Using Java** Nell Dale, Daniel T. Joyce, Chip Weems, 2016-09-01 Object Oriented Data Structures Using Java Fourth Edition presents traditional data structures and object oriented topics with an emphasis on problem solving theory and software engineering principles **Developing Object Oriented Data Structures Using C++** Alistair McMonnies, W. Stewart McSporran, 1995 **Introduction to Data Structures and Algorithms with C++** Glenn W. Rowe, 1997 A

complete introduction to the topic of data structures and algorithms approached from an object oriented perspective using C All data structures are described including stacks queues sets linked lists trees and graphs Searching and sorting algo An

*Object-oriented Introduction to Data Structures Using Eiffel* Richard S. Wiener,1997 Guide to the object oriented programming language

**Data Structures and Other Objects Using C+** Michael Main,Walter J. Savitch,2011 Data Structures and Other Objects Using C takes a gentle approach to the data structures course in C Providing an early self contained review of object oriented programming and C this text gives students a firm grasp of key concepts and allows those experienced in another language to adjust easily Flexible by design professors have the option of emphasizing object oriented programming covering recursion and sorting early or accelerating the pace of the course Finally a solid foundation in building and using abstract data types is also provided along with an assortment of advanced topics such as B trees for project building and graphs

Object-oriented Data Structures Using Java Nell B. Dale,Daniel T. Joyce,Chip Weems,2006

Data Structures Theory of Computation **Data Structure Using C++** N. Jayalakshmi,2007 *Data Structures and Algorithms with Object-Oriented Design Patterns in Java* Bruno R. Preiss,2000 Create sound software designs with data structures that use modern object oriented design patterns Author Bruno Preiss presents the fundamentals of data structures and algorithms from a modern object oriented perspective The text promotes object oriented design using Java and illustrates the use of the latest object oriented design patterns Virtually all the data structures are discussed in the context of a single class hierarchy This framework clearly shows the relationships between data structures and illustrates how polymorphism and inheritance can be used effectively Key Features of the Text All data structures are presented using a common framework This shows the relationship between the data structures and how they are implemented Object oriented design patterns are used to demonstrate how a good design fits together and transcends the problem at hand A single Java software design is used throughout the text to provide a better understanding of the operation of complicated data structures Just in time presentation of mathematical analysis techniques introduces students to mathematical concepts as needed Visit the Text s Web Site A comprehensive web site is available for users of the text at [www.wiley.com/college/preiss](http://www.wiley.com/college/preiss) The site includes The Web Book a hypertext version of the complete book Links to the Java Source Code all the program examples from the text Opus5 Package a Java package comprised of all the source code from the text Documentation source code documentation Demo Applets various Java applets that illustrate data structures and algorithms from the text Archive JAR format archive of the source code from the text Front Matter table of contents and preface Solutions Manual password required Errata

**An Object-oriented Approach to Data Structures Using C++** Jeffrey S. Davis,1994 DATA STRUCTURES IN C++ KUTTI, N. S.,PADHYE, P. Y.,1998-01-01 This compact and comprehensive book provides an introduction to data structures from an object oriented perspective using the powerful language C as the programming vehicle It is designed as an ideal text for the students before they start designing algorithms in C The book begins with an

overview of C then it goes on to analyze the basic concepts of data structures and finally focusses the reader's attention on abstract data structures. In so doing the text uses simple examples to explain the meaning of each data type. Throughout an attempt has been made to enable students to progress gradually from simple object oriented abstract data structures to more advanced data structures. A large number of worked examples and the end of chapter exercises help the students reinforce the knowledge gained. Intended as a one semester course for undergraduate students in computer science and for those who offer this course in engineering and management the book should also prove highly useful to those IT professionals who have a keen interest in the subject.

**Object-oriented C++ Data Structures for Real Programmers** Jan L. Harrington, 2002  
Data structures play a key role in any serious development project determining how the program acquires stores updates and processes its in memory data. Many of the basic techniques for constructing and governing access to data structures are well documented but most are structured programming techniques that do not translate well in an object oriented environment. Object Oriented C Data Structures for Real Programmers corrects this imbalance teaching experienced C and Java developers the most effective methods for designing and implementing highly functional data structures in any type of object oriented programming effort. The first part of the book introduces the various approaches focusing on the purposes for which each is most suited. From there the author examines advanced functionality that can be achieved in a number of ways helping readers choose and apply the optimal technique. Key Features: Advanced coverage from an accomplished developer and programming author. Written explicitly for experienced object oriented programmers. Helps you choose the best way to build the desired functionality then provides the instruction you need to do it. Covers all major data structure approaches including arrays vectors lists stacks and queues. Explains how to achieve a wide range of functionality including data sorting searching hashing dictionaries and indexes.

**Data Structures and Algorithms with Object-oriented Design Patterns in C#**  
Bruno R. Preiss, 2001  
**Data Structures & Other Objects Using C++** Michael Main, Walter J. Savitch, 1997  
Where will you be ten years from now? How will a course in data structures help you? Perhaps you will be a software engineer writing large software in specialized areas such as computer graphics. The authors of such programs today and in the future require a ready knowledge of proven methods for representing data. For example the graphics program that generated the cover of this book uses a collection of three dimensional objects and a programmer must use the knowledge of data structures to make decisions on how to represent such collections. As a programmer you must also possess an unshakable understanding of fundamental programming techniques and algorithms to manipulate the data structures. The graphics program is again a good example using recursion to generate beautiful fractal patterns and using efficient sorting algorithms in the process of removing hidden objects. With many accessible examples this book provides the knowledge of data representations and algorithms in a way that will be immediately useful to you with C. This book also focuses on foundational material that will continue to be useful to you over the next ten years and beyond. **Data Structures and Other Objects Using C** provides a

balanced approach to data structures and object oriented programming early self contained coverage of key C and object oriented programming topics a solid foundation in specifying designing implementing and using simple container classes lists stacks queues trees and more accessible coverage of fundamental topics such as container classes pointers and linked lists time analysis testing recursion searching and sorting extensive appendices that will make this book a valuable resource for years to come 0805374701B04062001      *Data Structures and Algorithms in C++* Michael T. Goodrich,Roberto Tamassia,David M. Mount,2011-02-22 This second edition of Data Structures and Algorithms in C is designed to provide an introduction to data structures and algorithms including their design analysis and implementation The authors offer an introduction to object oriented design with C and design patterns including the use of class inheritance and generic programming through class and function templates and retain a consistent object oriented viewpoint throughout the book This is a sister book to Goodrich Tamassia s Data Structures and Algorithms in Java but uses C as the basis language instead of Java This C version retains the same pedagogical approach and general structure as the Java version so schools that teach data structures in both C and Java can share the same core syllabus In terms of curricula based on the IEEE ACM 2001 Computing Curriculum this book is appropriate for use in the courses CS102 I O B versions CS103 I O B versions CS111 A version and CS112 A I O F H versions      **Data Structures and Algorithms** Bruno R. Preiss,1999      *Object Oriented Programming Using C++* B. Chandra,2002 Object Oriented Programming Using C provides the details of C required for both traditional programming and object oriented programming in such a lucid manner that the reader does not require any prior knowledge of C The text begins by addressing the fundamentals of C such as control statements arrays pointers and structures and function It then moves on to provide coverage on object oriented programming features of C discussions on implementation of data structures like linked lists stacks queues binary trees using pointers and classes The book concludes with coverage on graphics in C string functions operator loading and advanced formatting features

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