

# Object-Oriented Data Structures Using Java

Neil Davis, Computer Science

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# Object Oriented Data Structures Using Java

**Maria Litvin, Gary Litvin**



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

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

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The authors lucid writing style guides readers through the rigor of standard data structures and presents essential concepts from logical applications and implementation levels Key concepts throughout the Third Edition have been clarified to increase student comprehension and retention and end of chapter exercises have been updated and modified New and Key Features to the Third Edition Includes the use of generics throughout the text providing the dual benefits of allowing for a type safe use of data structures plus exposing students to modern approaches This text is among the first data structures textbooks to address the topic of concurrency and synchronization which are growing in the importance as computer systems move to using more cores and threads to obtain additional performance with each new generation Concurrency and synchronization are introduced in the new Section 5.7 where it begins with the basics of Java threads Provides numerous case studies and examples of the problem solving process Each case study includes problem description an analysis of the problem input and required output and a discussion of the appropriate data structures to use Expanded chapter exercises allow you as the instructor to reinforce topics for your students using both theoretical and practical questions Chapters conclude with a chapter summary that highlights the most important topics of the chapter and ties together related topics Instructor Resources Answers to the exercises in the text Glossary of terms PowerPoint Lecture Outlines Test bank

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Koffman, Paul A. T. Wolfgang, 2005 This version of the book uses the latest Java technology Java 2 Standard Edition Version 5.0 J2SE V 5.0 or otherwise known as Version 5.0 This revolutionary book intertwines problem solving and software engineering with the study of traditional data structures topics The book emphasizes the use of objects and object oriented design Early chapters provide background coverage of software engineering Then in the chapters on data structures these principles are applied The authors encourage use of a five step process for the solution of case studies problem specification analysis design implementation and testing As is done in industry these steps are sometimes performed in an iterative

fashion rather than in strict sequence The Java Application Programming Interface API is used throughout the text Wherever possible the specification and interface for a data structure follow the Java Collections Framework Emphasizes the use of objects and object oriented design Provides a primer on the Java language and offers background coverage of software engineering Encourages an iterative five step process for the solution of case studies problem specification analysis design implementation and testing The Java Application Programming Interface API is used throughout Data Structures Using Java Yedidyah Langsam, Moshe Augenstein, Aaron M. Tenenbaum, 2003 This book employs an object oriented approach to teaching data structures using Java Many worked examples and approximately 300 additional examples make this book easily accessible to the reader Most of the concepts in the book are illustrated by several examples allowing readers to visualize the processes being taught Introduces abstract concepts shows how those concepts are useful in problem solving and then shows the abstractions can be made concrete by using a programming language Equal emphasis is placed on both the abstract and the concrete versions of a concept so that the reader learns about the concept itself its implementation and its application For anyone with an interest in learning more about data structures *Java: Data Structures and Programming* Liwu Li, 2012-12-06 This book is written for practitioners of software development and for students of computer science who are interested in using the Java language to construct data structures The book assumes general knowledge of computer programming but no experience of Java programming or object modeling for the readers It introduces the Java language and object model by going through examples of data modeling The book emphasizes programming skills for developing various types of data structure and fundamental techniques for complexity analysis The programming skills are necessary for software development The analysis techniques are needed to ensure performance of programs The author has been responsible for teaching a data structure course for years The book carries out his expectations for proficiency in both programming and complexity analysis from students Several features of the book distinguish it from other books on data structures A challenge for the book is relating the complexity analysis to the Java Virtual Machine which isolates Java programmers from platform issues The book devotes a chapter to discuss the structure of Java class files and the Java Virtual Machine The book presents the problem of maximum flow and implements algorithms in Java to evaluate maximum flow for networks It introduces persistent data structures which may be included by some practitioners in their projects **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

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**Java Methods** Maria Litvin, Gary Litvin, 2015-02-15 This book offers a thorough introduction to the concepts and practices of object oriented programming in Java It also introduces the most common data structures and related algorithms and their implementations in the Java collections framework Chapters 1 14 follow the syllabus of the AP Computer Science in Java course They will prepare you well for the AP CS exam Chapters 15 18 on file input and output graphics graphical user interfaces and events handling in Java will give you a better sense of real world Java programming this material also makes case studies labs and exercises more fun Chapters 19 26 deal with more advanced data structures and algorithms Chapter 27 Design Patterns introduces more intricate aspects of object oriented design and serves as an introduction to design patterns The last chapter Computing in Context discusses creative responsible and ethical computer use

**Data Structures and Abstractions with Java** Frank M. Carrano, 2007 For one or two semester courses in data structures CS 2 in the departments of Computer Science Computer Engineering Business and Management Information Systems This is the most student friendly data structures text available that introduces ADTs in individual brief chapters each with pedagogical tools to help students master each concept Using the latest features of Java 5 this unique object oriented presentation makes a clear distinction between specification and implementation to simplify learning while providing maximum classroom flexibility

**Data Structures and Algorithms in Java, International**

**Student Version** Michael T. Goodrich,Roberto Tamassia,Michael H. Goldwasser,2014-06-16 The design and analysis of efficient data structures has long been recognized as a key component of the Computer Science curriculum Goodrich and Tomassia s approach to this classic topic is based on the object oriented paradigm as the framework of choice for the design of data structures For each ADT presented in the text the authors provide an associated Java interface Concrete data structures realizing the ADTs are provided as Java classes implementing the interfaces The Java code implementing fundamental data structures in this book is organized in a single Java package net datastructures This package forms a coherent library of data structures and algorithms in Java specifically designed for educational purposes in a way that is complimentary with the Java Collections Framework Problem Solving with Data Structures Using Java Mark Guzdial,Barbara Ericson,2011 Problem Solving with Data Structures First Edition is not a traditional data structures textbook that teaches concepts in an abstract and often dry context that focuses on data structures using numbers Instead this book takes a more creative approach that uses media and simulations specifically trees and linked lists of images and music to make concepts more concrete more relatable and therefore much more motivating for students This book is appropriate for both majors and non majors It provides an introduction to object oriented programming in Java arrays linked lists trees stacks queues lists maps and heaps It also covers an existing simulation package Greenfoot and how to create continuous and discrete event simulations Data Structures and Algorithms in Java Michael T. Goodrich,Roberto Tamassia,2004 The third edition of this conceptually elegant and pedagogically innovative text continues to incorporate the object oriented design paradigm using Java as the implementation language while also providing intuition and analysis of fundamental data structures and algorithms All of this is done in a clear friendly writing style that uses visuals to introduce and simplify important analytic and mathematical concepts Entirely new chapter on recursion Additional exercises on the analysis of simple algorithms New case study on parenthesis matching and HTML validation **Fundamentals of OOP and Data Structures in Java** Richard Wiener,Lewis J. Pinson,2000-06-05 Fundamentals of OOP and Data Structures in Java is a text for an introductory course on classical data structures Part One of the book presents the basic principles of Object Oriented Programming OOP and Graphical User Interface GUI programming with Java as the example language Part Two introduces each of the major data structures with supporting GUI based laboratory programs designed to reinforce the basic concepts and principles of the text These laboratories allow the reader to explore and experiment with the properties of each data structure All source code for the laboratories is available on the web By integrating the principles of OOP and GUI programming this book takes the unique path of presenting the fundamental issues of data structures within the context of paradigms that are essential to today s professional software developer The authors assume the reader has only an elementary understanding of Java and no experience with OOP **Java Methods** Maria Litvin,Gary Litvin,2001

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