

DataStructures



Data Structures Using Java

Michael Main



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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

Data Structures and Other Objects Using Java Michael Main, 2003 This book takes a gentle approach to the data structures course in Java It offers an early self contained review of object oriented programming and Java to give students a firm grasp of key concepts and allows those experienced in other languages to adjust easily The book also offers a flexibility which allows professors such options as emphasizing object oriented programming covering recursion and sorting early or accelerating the pace of the course This title meets the needs of professors searching for a book to balance the introduction of object oriented programming and data structures with Java The new edition has been updated to cover Java 1.3 and includes new appendices with more reference material on such topics as Java collections It also features increased coverage of object oriented programming and inheritance New exercises on radix sort and shell sort have also been added

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 Tamassia'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

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

[A Concise Introduction to Data Structures using Java](#) Mark J. Johnson, 2013-11-18 A student friendly text A Concise Introduction to Data Structures Using Java takes a developmental approach starting with simpler concepts first and then building toward greater complexity Important topics such as linked lists are introduced gradually and revisited with increasing depth More code and guidance are provided at the beginning of each chapter

[Guide to Data Structures](#) James

T. Streib, Takako Soma, 2017-12-30 This accessible and engaging textbook guide provides a concise introduction to data structures and associated algorithms. Emphasis is placed on the fundamentals of data structures enabling the reader to quickly learn the key concepts and providing a strong foundation for later studies of more complex topics. The coverage includes discussions on stacks, queues, lists using both arrays and links, sorting and elementary binary trees, heaps and hashing. This content is also a natural continuation from the material provided in the separate Springer title *Guide to Java* by the same authors. Topics and features reviews the preliminary concepts and introduces stacks and queues using arrays along with a discussion of array based lists, examines linked lists, the implementation of stacks and queues using references, binary trees, a range of varied sorting techniques, heaps and hashing, presents both primitive and generic data types in each chapter and makes use of contour diagrams to illustrate object oriented concepts, includes chapter summaries and asks the reader questions to help them interact with the material, contains numerous examples and illustrations and one or more complete program in every chapter, provides exercises at the end of each chapter as well as solutions to selected exercises and a glossary of important terms. This clearly written work is an ideal classroom text for a second semester course in programming using the Java programming language in preparation for a subsequent advanced course in data structures and algorithms. The book is also eminently suitable as a self study guide in either academe or industry.

Data Structures and Algorithms Using Java William McAllister, 2009 *Data Structures Theory of Computation*

Data Structures & Other Objects Using Java Michael Main, 2003 This book takes a gentle approach to the data structures course in Java. It offers an early self contained review of object oriented programming and Java to give students a firm grasp of key concepts and allows those experienced in other languages to adjust easily. The book also offers a flexibility which allows professors such options as emphasizing object oriented programming, covering recursion and sorting early or accelerating the pace of the course. This title meets the needs of professors searching for a book to balance the introduction of object oriented programming and data structures with Java. The new edition has been updated to cover Java 1.3 and includes new appendices with more reference material on such topics as Java collections. It also features increased coverage of object oriented programming and inheritance. New exercises on radix sort and shell sort have also been added.

[A Practical Guide to Data Structures and Algorithms using Java](#) Sally. A. Goldman, Kenneth. J. Goldman, 2007-08-23 Although traditional texts present isolated algorithms and data structures they do not provide a unifying structure and offer little guidance on how to appropriately select among them. Furthermore these texts furnish little if any source code and leave many of the more difficult aspects of the implementation as exercises. A fresh alternative to *Data Structures and Problem Solving Using Java* Mark Allen Weiss, 1998 This text uses Java to teach data structures and algorithms from the perspective of abstract thinking and problem solving.

A Concise Introduction to Data Structures Using Java Mark Johnson, 2015 A student friendly text. *A Concise Introduction to Data Structures Using Java* takes a developmental approach starting with simpler concepts first and then

building toward greater complexity Important topics such as linked lists are introduced gradually and revisited with increasing depth More code and guidance are provided at the beginning allowing students time to adapt to Java while also beginning to learn data structures As students develop fluency in Java less code is provided and more algorithms are outlined in pseudocode The text is designed to support a second course in computer science with an emphasis on elementary data structures The clear concise explanations encourage students to read and engage with the material while partial implementations of most data structures give instructors the flexibility to develop some methods as examples and assign others as exercises The book also supplies an introductory chapter on Java basics that allows students who are unfamiliar with Java to quickly get up to speed The book helps students become familiar with how to use design implement and analyze data structures an important step on the path to becoming skilled software developers

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

Introducing Data Structures with Java David Cousins, 2011 Introducing Data Structures with Java sets out to provide a firm understanding of dealing with arrays lists queues stacks binary trees and graphs and with algorithms for operations such as searching and sorting Practical implementation to promote sound understanding is a key feature and many example programs are developed using a clear design process full source code listings are supplied in each chapter and all of the programs are supplied on the CD ROM Download Companion Content http://www.pearsoned.co.in/prc/book/david_cousins_introducing_data_structures_with_java_1e_1_9788131758649

Data Structures Elliot B. Koffman, Paul A. T. Wolfgang, 2010-01-26 This book lays the foundation for programmers to build their skills The focus is placed on how to implement effective programs using the JCL instead of producing mathematical proofs The coverage is updated and streamlined to provide a more accessible approach to programming They ll be able to develop a thorough understanding of basic data structures and algorithms through an objects first approach Data structures are discussed in the context of software engineering principles Updated case studies also show programmers how to apply essential design skills and concepts

Data Structures Using Java Duncan A. Buell, 2013 **Data Structures, Theory of Computation, Algorithms, and Applications in Java** Sartaj Sahni, 2005

Data Structures with Java John Rast Hubbard, Anita Huray, 2004 For a freshman sophomore level course in Data Structures in Computer Science This text teaches the use of direct source code implementations and the use of the Java libraries it helps students prepare for later work on larger Java software solutions by adhering to software engineering principles and techniques such as the UML and the Java Collections

Framework JCF Using the spiral approach to cover such topics as linked structures recursion and algorithm analysis this text also provides revealing illustrations summaries review questions and specialized reference sections

Data Structures and Algorithm Analysis in Java Mark Allen Weiss,2007 This text provides a proven approach to algorithms and data structures using the Java programming languages as the implementation tool

Classic Data Structures in Java Timothy Budd,2001 With this book Tim Budd looks at data structures by providing a solid foundation on the ADT and uses the graphical elements found in Java when possible The beginning chapters provide the foundation on which everything else will be built These chapters define the essential concept of the abstract data type ADT and describe the tools used in the evaluation and analysis of data structures The book moves on to provide a detailed description of the two most important fundamental data abstractions the vector and the linked list providing an explanation of some of the more common variations on these fundamental ideas Next the material considers data structures applicable to problems in which the order that values are added to a collection is important followed by a consideration of the various different ways in which binary trees are used in the creation of data structures The last few chapters consider a sequence of more advanced data structures Most are constructed as adaptors built on top of earlier abstractions Hash tables are introduced first as a technique for implementing simple collections and later as a tool for developing efficient maps Lastly the graph data type is considered Here there are several alternative data structures presentations in common use and the emphasis in this chapter is more on the development and analysis of useful algorithms than on any particular data structure

Data Structures & Problem Solving Using Java Mark Allen Weiss,2006 This book provides a practical introduction to data structures from a viewpoint of abstract thinking and problem solving as well as the use of Java It does this through what remains a unique approach that clearly separates each data structure s interface how to use a data structure from it s implementation how to actually program that structure into different parts of the book Part I Tour of Java Part II Algorithms and Building Blocks and Part III Applications lay the groundwork by discussing basic concepts and tools and providing some practical examples but implementation of data structures is not shown until Part IV Implementations forcing the reader to think about the functionality of the data structures before the hash table is implemented The third edition of *Data Structures and Problem Solving Using Java* incorporates the enhancements of Java 5 0 It includes coverage of generic programming and content on the design of generic collection classes This book is appropriate for readers who are familiar with basic Java programming concepts or are new to the language and want to learn how it treats data structures concepts

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