Data Structure
├── Primitive data Structure
└── Non-Primitive data Structure

Linear
├── Array
├── LinkedList
├── Stack
└── Queue

Non-Linear
├── Trees
└── Graphs

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Data Structures With Java

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Data Structures With Java:

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 **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 and Abstractions with Java Frank M. Carrano,2007 This book Includes generic data types as well as enumerations for each loops the interface Iterable the class Scanner assert statements and autoboxing and unboxing Amazon **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 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 **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 **Data Structures, Algorithms, and Applications in Java** Sartaj Sahni,2005 **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 al 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 With Java" Hubbard & Anita Hurray,2011 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 **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 Data Structures with Java William H. Ford,William Ford,William

R. Topp,2005 This modern object oriented approach to data structures helps readers gain an integrated understanding of data structures and their applications Carefully developing topics with sufficient detail this book enables users to learn about concepts on their own clarity of presentation and depth of coverage makes this a perfect learning tool for professionals It includes a solid introduction to algorithms an integral part of understanding the subject and uses Java syntax and structure in the design of data structures Its breadth of coverage insures that core topics such as linked lists sets maps and iterators are carefully and comprehensively discussed For computer programmers computer analysts and information technology professionals **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 intro duces 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 program ming 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 struc tures 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 imple ments algorithms in Java to evaluate maximum flow for networks It introduces persistent data structures which may be included by some practitioners in their projects 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 Algorithms Using Java** William McAllister,2009 Data Structures Theory of Computation **Data Structures Using Java** Duncan A. Buell,2013 Data Structures Theory of Computation 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 **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 *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

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