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Open Data Structures - Pat Morin 2013

Introduction -- Array-based lists -- Linked lists -- Skiplists -- Hash tables -- Binary trees -- Random binary search trees -- Scapegoat trees -- Red-black trees -- Heaps -- Sorting algorithms -- Graphs -- Data structures for integers -- External memory searching.

Introduction to Java Programming and Data Structures, Comprehensive Version, Global Edition - Y. Daniel Liang 2018-02-18

This text is intended for a 1-semester CS1 course sequence. The Brief Version contains the first 18 chapters of the Comprehensive Version. The first 13 chapters are appropriate for preparing the AP Computer Science exam. For courses in Java Programming. A fundamentals-first introduction to basic programming concepts and techniques Designed to support an introductory programming course, Introduction to Java Programming and Data Structures teaches concepts of problem-solving and object-orientated programming using a fundamentals-first approach. Beginner programmers learn critical problem-solving techniques then move on to grasp the key concepts of object-oriented, GUI programming, advanced GUI and Web programming using JavaFX. This course approaches Java GUI programming using JavaFX, which has replaced Swing as the new GUI tool for developing cross-platform-rich Internet applications and is simpler to learn and use. The 11th edition has been

completely revised to enhance clarity and presentation, and includes new and expanded content, examples, and exercises.

Data Structures Using C++ - D. S. Malik 2009-07-31

Now in its second edition, D.S. Malik brings his proven approach to C++ programming to the CS2 course. Clearly written with the student in mind, this text focuses on Data Structures and includes advanced topics in C++ such as Linked Lists and the Standard Template Library (STL). The text features abundant visual diagrams, examples, and extended Programming Examples, all of which serve to illuminate difficult concepts. Complete programming code and clear display of syntax, explanation, and example are used throughout the text, and each chapter concludes with a robust exercise set. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Object Oriented Programming using Java - Simon Kendal 2009

Object-Oriented, Abstraction, and Data Structures Using Scala - Mark C. Lewis 2017-01-06

Praise for the first edition: "The well-written, comprehensive book...[is] aiming to become a de facto reference for the language and its features and capabilities. The pace is appropriate for beginners; programming

concepts are introduced progressively through a range of examples and then used as tools for building applications in various domains, including sophisticated data structures and algorithms...Highly recommended. Students of all levels, faculty, and professionals/practitioners. —D. Papamichail, University of Miami in CHOICE Magazine

Mark Lewis' Introduction to the Art of Programming Using Scala was the first textbook to use Scala for introductory CS courses. Fully revised and expanded, the new edition of this popular text has been divided into two books. Object-Orientation, Abstraction, and Data Structures Using Scala, Second Edition is intended to be used as a textbook for a second or third semester course in Computer Science. The Scala programming language provides powerful constructs for expressing both object orientation and abstraction. This book provides students with these tools of object orientation to help them structure solutions to larger, more complex problems, and to expand on their knowledge of abstraction so that they can make their code more powerful and flexible. The book also illustrates key concepts through the creation of data structures, showing how data structures can be written, and the strengths and weaknesses of each one. Libraries that provide the functionality needed to do real programming are also explored in the text, including GUIs, multithreading, and networking. The book is filled with end-of-chapter projects and exercises, and the authors have also posted a number of different supplements on the book website. Video lectures for each chapter in the book are also available on YouTube. The videos show construction of code from the ground up and this type of "live coding" is invaluable for learning to program, as it allows students into the mind of a more experienced programmer, where they can see the thought processes associated with the development of the code. About the Authors Mark Lewis is an Associate Professor at Trinity University. He teaches a number of different courses, spanning from first semester introductory courses to advanced seminars. His research interests included simulations and modeling, programming languages, and numerical modeling of rings around planets with nearby moons. Lisa Lacher is an Assistant Professor at the University of Houston, Clear Lake with over 25 years of

professional software development experience. She teaches a number of different courses spanning from first semester introductory courses to graduate level courses. Her research interests include Computer Science Education, Agile Software Development, Human Computer Interaction and Usability Engineering, as well as Measurement and Empirical Software Engineering.

Data Structures and Algorithms in Java - Michael T. Goodrich 2014-01-28

The design and analysis of efficient data structures has long been recognized as a key component of the Computer Science curriculum. Goodrich, Tomassia and Goldwasser'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.

Java Structures - Duane A. Bailey 2003

The second edition of Duane Bailey's *Java Structures* considers the design, implementation, and use of data structures using Java 2. The structure package, a collection of nearly 100 different classes implementing a wide variety of data structures, has been the basis of *Java Structures* for more than five years. Thousands of faculty, students, researchers, industrial and recreational programmers have investigated this lean and well tested approach to data structure design. In this edition, the text develops a heavily tested package that is independent of but consistent with the Collection package offered by Sun. In many cases, the variety of implementations provides the programmer choices of data structure that are not available with the Collection system. For those curricula that make use of the Collection package, the structure package can be easily integrated into existing applications. All classes are fully documented and make consistent use of pre- and post-

conditioning, and include support for assertion testing. The second edition also brings a wealth of new resources, including a large number of new and original exercises and drill problems. Throughout the text, exercises appear in the running text to direct a deeper consideration of subtle issues by students. Perhaps the most innovative feature (first found in Bailey's Java Elements) is the inclusion of more than a dozen original lab exercises that focus on interesting and often classic problems of computer science. All code for the book's examples, documentation, and the STRUCTURE package is posted on the book's website at www.mhhe.com/javastructures.

Problem Solving with Data Structures Using Java - Mark Guzdial 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.

Object-Oriented Programming and Java - Danny Poo 2008

Covering the latest in Java technologies, Object-Oriented Programming and Java teaches the subject in a systematic, fundamentals-first approach. It begins with the description of real-world object interaction scenarios and explains how they can be translated, represented and executed using object-oriented programming paradigm. By establishing a solid foundation in the understanding of object-oriented programming concepts and their applications, this book provides readers with the prerequisites for writing proper object-oriented programs using Java.

A Practical Introduction to Data Structures and Algorithm Analysis - Clifford A. Shaffer 2001

This practical text contains fairly "traditional" coverage of data structures with a clear and complete use of algorithm analysis, and some emphasis on file processing techniques as relevant to modern programmers. It fully integrates OO programming with these topics, as part of the detailed presentation of OO programming itself. Chapter topics include lists, stacks, and queues; binary and general trees; graphs; file processing and external sorting; searching; indexing; and limits to computation. For programmers who need a good reference on data structures.

Introduction to Programming Using Java - David M. Arnow 1998
Java's support for GUI and network programming makes a great setting for diverse programming examples: a calculator, a strategy game, reading the Dow Jones from Yahoo, a Web surveyor application, scheduling songs for a rock-and-roll radio station, as well as traditional payroll and student GPA computations. Working with these and other examples, students learn to think like a programmer, analyze problems, devise solutions, design classes, and write code. Features *Uses the necessary features of Java 1.1 while teaching CS1 concepts. *Uses object-oriented concepts from the very beginning--classes, objects, and messages are all introduced in Chapter 1--and develops them throughout. *Applies a consistent class design procedure, usable by beginners. *Contains graphic user interface (GUI) supplements in each chapter. *Provides an early introduction to testing, covering test drivers, debugging, and test case selection. *Includes a chapter with three robust applications--a LOGO turtle, a Web surveyor, and Mancala (a strategy game)--which use the text's class design procedure and allow the students to tie the material together.

Java: Data Structures and Programming - Liwu Li 2014-08-23

This introduction to the Java language integrates a discussion of object-oriented programming with the design and implementation of data structures. It covers the most important topics, including algorithm analysis; time and space complexities; Java built-in data structure classes; input and output, data, and access streams; and the persistency of data.

Data Structures and Algorithm Analysis in Java, Third Edition -

Clifford A. Shaffer 2012-09-06

Comprehensive treatment focuses on creation of efficient data structures and algorithms and selection or design of data structure best suited to specific problems. This edition uses Java as the programming language.

Objects, Abstraction, Data Structures and Design - Elliot B. Koffman 2005-10-20

"It is a practical book with emphasis on real problems the programmers encounter daily." --Dr. Tim H. Lin, California State Polytechnic University, Pomona "My overall impressions of this book are excellent. This book emphasizes the three areas I want: advanced C++, data structures and the STL and is much stronger in these areas than other competing books." --Al Verbanec, Pennsylvania State University Think, Then Code When it comes to writing code, preparation is crucial to success. Before you can begin writing successful code, you need to first work through your options and analyze the expected performance of your design. That's why Elliot Koffman and Paul Wolfgang's Objects, Abstraction, Data Structures, and Design: Using C++ encourages you to Think, Then Code, to help you make good decisions in those critical first steps in the software design process. The text helps you thoroughly understand basic data structures and algorithms, as well as essential design skills and principles. Approximately 20 case studies show you how to apply those skills and principles to real-world problems. Along the way, you'll 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. Key Features * Object-oriented approach. * Data structures are presented in the context of software design principles. * 20 case studies reinforce good programming practice. * Problem-solving methodology used throughout... "Think, then code!" * Emphasis on the C++ Standard Library. * Effective pedagogy.

Data Structures Using Java - Duncan A. Buell 2013

Data Structures & Theory of Computation

Data Structures and Algorithm Analysis in Java - Mark Allen Weiss

2014-09-24

Data Structures and Algorithm Analysis in Java is an advanced algorithms book that fits between traditional CS2 and Algorithms Analysis courses. In the old ACM Curriculum Guidelines, this course was known as CS7. It is also suitable for a first-year graduate course in algorithm analysis As the speed and power of computers increases, so does the need for effective programming and algorithm analysis. By approaching these skills in tandem, Mark Allen Weiss teaches readers to develop well-constructed, maximally efficient programs in Java. Weiss clearly explains topics from binary heaps to sorting to NP-completeness, and dedicates a full chapter to amortized analysis and advanced data structures and their implementation. Figures and examples illustrating successive stages of algorithms contribute to Weiss' careful, rigorous and in-depth analysis of each type of algorithm. A logical organization of topics and full access to source code complement the text's coverage.

DATA STRUCTURES AND ALGORITHMS WITH OBJECT-

ORIENTED DESIGN PATTERNS IN C++ - Bruno R. Preiss 2008-05

About The Book: Bruno Preiss presents readers with a modern, object-oriented perspective for looking at data structures and algorithms, clearly showing how to use polymorphism and inheritance, and including fragments from working and tested programs. The book uses a single class hierarchy as a framework to present all of the data structures. This framework clearly shows the relationships between data structures and illustrates how polymorphism and inheritance can be used effectively.

Object-Oriented Data Structures Using Java - Nell Dale 2011-02-27

Continuing the success of the popular second edition, the updated and revised Object-Oriented Data Structures Using Java, Third Edition is sure to be an essential resource for students learning data structures using the Java programming language. It presents traditional data structures and object-oriented topics with an emphasis on problem-solving, theory, and software engineering principles. Beginning early and continuing throughout the text, the authors introduce and expand upon the use of many Java features including packages, interfaces, abstract classes, inheritance, and exceptions. Numerous case studies provide readers with real-world examples and demonstrate possible solutions to interesting

problems. 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.

Schaum's Outline of Data Structures with Java, 2ed - John Hubbard 2009-06-10

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with

your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.

Java Methods, Second AP Edition - Maria Litvin 2010-12-15

Data Structures - Elliot B. Koffman 2016

Data Structures Using Java - D. S. Malik 2003

Finally, a CS2 Java book that your students will love! Dr. Malik's definitive Java text for CS2 students is easy-to-read and student-friendly, yet tackles the important concepts and topics for your CS2 course.

Data Structures and Problem Solving Using Java - Mark Allen Weiss 2002

Uses Java to teach data structures and algorithms from the perspective of abstract thinking and problem solving.

Object-Oriented Design And Patterns - Cay Horstmann 2009-08

Cay Horstmann offers readers an effective means for mastering computing concepts and developing strong design skills. This book introduces object-oriented fundamentals critical to designing software and shows how to implement design techniques. The author's clear, hands-on presentation and outstanding writing style help readers to better understand the material. · A Crash Course in Java· The Object-Oriented Design Process· Guidelines for Class Design· Interface Types and Polymorphism· Patterns and GUI Programming· Inheritance and Abstract Classes· The Java Object Model· Frameworks· Multithreading· More Design Patterns

Problem Solving with Algorithms and Data Structures Using Python -

Bradley N. Miller 2011

THIS TEXTBOOK is about computer science. It is also about Python. However, there is much more. The study of algorithms and data structures is central to understanding what computer science is all about. Learning computer science is not unlike learning any other type of difficult subject matter. The only way to be successful is through deliberate and incremental exposure to the fundamental ideas. A

beginning computer scientist needs practice so that there is a thorough understanding before continuing on to the more complex parts of the curriculum. In addition, a beginner needs to be given the opportunity to be successful and gain confidence. This textbook is designed to serve as a text for a first course on data structures and algorithms, typically taught as the second course in the computer science curriculum. Even though the second course is considered more advanced than the first course, this book assumes you are beginners at this level. You may still be struggling with some of the basic ideas and skills from a first computer science course and yet be ready to further explore the discipline and continue to practice problem solving. We cover abstract data types and data structures, writing algorithms, and solving problems. We look at a number of data structures and solve classic problems that arise. The tools and techniques that you learn here will be applied over and over as you continue your study of computer science.

Data Structures and Other Objects Using Java - Michael Main 2011-11

Data Structures and Other Objects Using Java is a gradual, "just-in-time" introduction to Data Structures for a CS2 course. Each chapter provides a review of the key aspects of object-oriented programming and a syntax review, giving students the foundation for understanding significant programming concepts. With this framework they are able to accomplish writing functional data structures by using a five-step method for working with data types; understanding the data type abstractly, writing a specification, using the data type, designing and implementing the data type, and analyzing the implementation. Students learn to think analytically about the efficiency and efficacy of design while gaining exposure to useful Java classes libraries.

[Introduction to Programming Using Java](#) - David Eck 2009-09-01

An Introduction to Object-Oriented Programming with Java 1.5 Update with OLC Bi-Card - C. Thomas Wu 2004

An Introduction to Object-Oriented Programming with Java provides an accessible and thorough introduction to the basics of programming in

java. This much-anticipated revision continues its emphasis on object-oriented programming. Objects are used early so students begin thinking in an object-oriented way, then later Wu teaches students to define their own classes. In the third edition, the author has eliminated the author-written classes, so students get accustomed to using the standard java libraries. In the new update, the author has included the Scanner Class for input, a new feature of Java 1.5. Also new is the use of smaller complete code examples to enhance student learning. The larger sample development programs are continued in this edition, giving students an opportunity to walk incrementally through program design, learning the fundamentals of software engineering. The number and variety of examples makes this a student-friendly text that teaches by showing. Object diagrams continue to be an important element of Wu's approach. The consistent, visual approach assists students in understanding concepts.

Java, Java, Java - Ralph Morelli 2006

Functional and flexible, this guide takes an objects-first approach to Java programming and problem using games and puzzles. Updated to cover Java version 1.5 features, such as generic types, enumerated types, and the Scanner class. Offers independent introductions to both a command-line interface and a graphical user interface (GUI). Features coverage of Unified Modeling Language (UML), the industry-standard, object-oriented design tool. Illustrates key aspects of Java with a collection of game and puzzle examples. Instructor and Student resources available online. For introductory computer programming students or professionals interested in learning Java.

Starting Out with Java: Early Objects PDF eBook, Global Edition - Tony Gaddis 2015-04-17

This text is intended for use in the Java programming course Tony Gaddis's accessible, step-by-step presentation helps beginning students understand the important details necessary to become skilled programmers at an introductory level. Gaddis motivates the study of both programming skills and the Java programming language by presenting all the details needed to understand the "how" and the "why"—but never

losing sight of the fact that most beginners struggle with this material. His approach is both gradual and highly accessible, ensuring that students understand the logic behind developing high-quality programs. In *Starting Out with Java: Early Objects*, Gaddis looks at objects—the fundamentals of classes and methods—before covering procedural programming. As with all Gaddis texts, clear and easy-to-read code listings, concise and practical real-world examples, and an abundance of exercises appear in every chapter. Teaching and Learning Experience This program presents a better teaching and learning experience—for you and your students. Enhance Learning with the Gaddis Approach: Gaddis’s accessible approach features clear and easy-to-read code listings, concise real-world examples, and exercises in every chapter. Keep Your Course Current: Content is refreshed to provide the most up-to-date information on new technologies for your course. Support Instructors and Students: Student and instructor resources are available to expand on the topics presented in the text.

Data Structures and Algorithms in Java - Adam Drozdek 2005

Using the Java programming language, author Adam Drozdek highlights three important aspects of data structures and algorithms. First, the book places special emphasis on the connection between data structures and their algorithms, including an analysis of the algorithms’ complexity. Second, the book presents data structures in the context of object-oriented program design, stressing the principle of information hiding in its treatment of encapsulation and decomposition. Finally, the book closely examines data structure implementation. Overall, this practical and theoretical book prepares students with a solid foundation in data structures for future courses and work in design implementation, testing, or maintenance of virtually any software system. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Data Structures and Algorithms in C++ - Michael T. Goodrich
2011-02-22

An updated, innovative approach to data structures and algorithms
Written by an author team of experts in their fields, this authoritative

guide demystifies even the most difficult mathematical concepts so that you can gain a clear understanding of data structures and algorithms in C++. The unparalleled author team incorporates the object-oriented design paradigm using C++ as the implementation language, while also providing intuition and analysis of fundamental algorithms. Offers a unique multimedia format for learning the fundamentals of data structures and algorithms Allows you to visualize key analytic concepts, learn about the most recent insights in the field, and do data structure design Provides clear approaches for developing programs Features a clear, easy-to-understand writing style that breaks down even the most difficult mathematical concepts Building on the success of the first edition, this new version offers you an innovative approach to fundamental data structures and algorithms.

Java Methods - Maria 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 Using Java - Langsam 2003-09

Fundamentals of OOP and Data Structures in Java - Richard Wiener
2000-06-05

A book for an undergraduate course on data structures which integrates the concepts of object-oriented programming and GUI programming.

Data Structures and Algorithms in Python - Michael T. Goodrich
2013-03-08

Based on the authors' market leading data structures books in Java and C++, this textbook offers a comprehensive, definitive introduction to data structures in Python by authoritative authors. *Data Structures and Algorithms in Python* is the first authoritative object-oriented book available for the Python data structures course. Designed to provide a comprehensive introduction to data structures and algorithms, including their design, analysis, and implementation, the text will maintain the same general structure as *Data Structures and Algorithms in Java* and *Data Structures and Algorithms in C++*.

AI Algorithms, Data Structures, and Idioms in Prolog, Lisp, and Java - George F. Luger 2009

Advanced Data Structures - Peter Brass 2019-05-16

Advanced Data Structures presents a comprehensive look at the ideas, analysis, and implementation details of data structures as a specialized topic in applied algorithms. Data structures are how data is stored within a computer, and how one can go about searching for data within. This text examines efficient ways to search and update sets of numbers, intervals, or strings by various data structures, such as search trees, structures for sets of intervals or piece-wise constant functions, orthogonal range search structures, heaps, union-find structures, dynamization and persistence of structures, structures for strings, and hash tables. This is the first volume to show data structures as a crucial algorithmic topic, rather than relegating them as trivial material used to illustrate object-oriented programming methodology, filling a void in the ever-increasing computer science market. Numerous code examples in C and more than 500 references make *Advanced Data Structures* an indispensable text. Numerous code examples in C and more than 500 references make *Advanced Data Structures* an indispensable text.

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. 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

Think Data Structures - Allen Downey 2017-07-07

If you're a student studying computer science or a software developer preparing for technical interviews, this practical book will help you learn and review some of the most important ideas in software engineering—data structures and algorithms—in a way that's clearer, more concise, and more engaging than other materials. By emphasizing practical knowledge and skills over theory, author Allen Downey shows you how to use data structures to implement efficient algorithms, and then analyze and measure their performance. You'll explore the

important classes in the Java collections framework (JCF), how they're implemented, and how they're expected to perform. Each chapter presents hands-on exercises supported by test code online. Use data structures such as lists and maps, and understand how they work Build an application that reads Wikipedia pages, parses the contents, and navigates the resulting data tree Analyze code to predict how fast it will

run and how much memory it will require Write classes that implement the Map interface, using a hash table and binary search tree Build a simple web search engine with a crawler, an indexer that stores web page contents, and a retriever that returns user query results Other books by Allen Downey include Think Java, Think Python, Think Stats, and Think Bayes.