

Adts Data Structures Problem Solving With C

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 Data Abstraction & Problem Solving with Java
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 The Bulgarian C# Book
 Object-Oriented Data Structures Using Java
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 C++ Data Structures and Algorithms
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YOUNG TRUJILLO

Data Structures and Algorithms Using Python Wiley Global Education

"Focusing on data abstraction and data structures, the second edition of this very successful book continues to emphasize the needs of both the instructor and the student. The book illustrates the role of classes and abstract data types (ADTs) in the problem-solving process as the foundation for an object-oriented approach. Throughout the next, the distinction between specification and implementation is continually stressed. The text covers major applications of ADTs, such as searching a flight map and performing an event-driven simulation. It also offers early, extensive coverage of recursion and uses this technique in many examples and exercises. Overall, the lucid writing style, widespread use of examples, and flexible coverage of material have helped make this a leading book in the field." --Book Jacket.

Data Abstraction & Problem Solving with Java Addison-Wesley

Data Structures and Problem Solving Using Java, Second Edition provides a practical introduction to data structures and algorithms from the viewpoint of abstract thinking and problem solving, as well as the use of Java. This text has a clear separation of the interface and implementation to promote abstract thinking. Java allows the programmer to write the interface and implementation separately, to place them in separate files and compile separately, and to hide the implementation details. This book goes a step further: the interface and implementation are discussed in separate 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). Class interfaces are written and used before the implementation is known, forcing the reader to think about the functionality and potential efficiency of the various data structures (e.g., hash tables are written well before the hash table is implemented). *NEW! Complete chapter covering Design Patterns (Chapter 5).

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[Learn how to write efficient code to build scalable and robust applications in C++](#) Pearson

ADTs, Data Structures, and Problem Solving with C++ Pearson

The Bulgarian C# Book "O'Reilly Media, Inc."

Peeling Data Structures and Algorithms for interviews [re-printed with corrections and new problems]: "Data Structures And Algorithms Made Easy: Data Structure And Algorithmic Puzzles" is a book that offers solutions to complex data structures and algorithms. There are multiple solutions for each problem and the book is coded in C/C++, it comes handy as an interview and exam guide for computer scientists. A handy guide of sorts for any computer science professional, "Data Structures And Algorithms Made Easy: Data Structure And Algorithmic Puzzles" is a solution bank for various complex problems related to data structures and algorithms. It can be used as a reference manual by those readers in the computer science industry. The book has around 21 chapters and covers Recursion and Backtracking, Linked Lists, Stacks, Queues, Trees, Priority Queue and Heaps, Disjoint Sets ADT, Graph Algorithms, Sorting, Searching, Selection Algorithms [Medians], Symbol Tables, Hashing, String Algorithms, Algorithms Design

Techniques, Greedy Algorithms, Divide and Conquer Algorithms, Dynamic Programming, Complexity Classes, and other Miscellaneous Concepts. *Data Structures And Algorithms Made Easy: Data Structure And Algorithmic Puzzles* by Narasimha Karumanchi was published in March, and it is coded in C/C++ language. This book serves as guide to prepare for interviews, exams, and campus work. It is also available in Java. In short, this book offers solutions to various complex data structures and algorithmic problems. What is unique? Our main objective isn't to propose theorems and proofs about DS and Algorithms. We took the direct route and solved problems of varying complexities. That is, each problem corresponds to multiple solutions with different complexities. In other words, we enumerated possible solutions. With this approach, even when a new question arises, we offer a choice of different solution strategies based on your priorities. Topics Covered: Introduction Recursion and Backtracking Linked Lists Stacks Queues Trees Priority Queue and Heaps Disjoint Sets ADT Graph Algorithms Sorting Searching Selection Algorithms [Medians] Symbol Tables Hashing String Algorithms Algorithms Design Techniques Greedy Algorithms Divide and Conquer Algorithms Dynamic Programming Complexity Classes Miscellaneous Concepts Target Audience? These books prepare readers for interviews, exams, and campus work. Language? All code was written in C/C++. If you are using Java, please search for "Data Structures and Algorithms Made Easy in Java." Also, check out sample chapters and the blog at: CareerMonk.com

[Object-Oriented Data Structures Using Java](#) Pearson Higher Ed

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.

Data Structures and Problem Solving Using Java Tata McGraw-Hill Education

Using the latest features of Java 5, this unique object-oriented presentation introduces readers to data structures via thirty, manageable chapters.

KEY Features TOPICS: Introduces each ADT in its own chapter, including examples or applications. Provides a variety of exercises and projects, plus additional self-assessment questions throughout. the text Includes generic data types as well as enumerations, for-each loops, the interface Iterable, the class Scanner, assert statements, and autoboxing and unboxing. Identifies important Java code as a Listing. Provides Notes and Programming Tips in each chapter. For programmers and software engineers interested in learning more about data structures and abstractions.

Data Abstraction and Problem Solving with C++ Prentice Hall

Learn how to build efficient, secure and robust code in C++ by using data structures and algorithms - the building blocks of C++ Key Features Use data structures such as arrays, stacks, trees, lists, and graphs with real-world examples Learn the functional and reactive implementations of the traditional data structures Explore illustrations to present data structures and algorithms, as well as their analysis, in a clear, visual manner Book Description C++ is a general-purpose programming language which has evolved over the years and is used to develop software for many different sectors. This book will be your companion as it takes you through implementing classic data structures and algorithms to help you get up and running as a confident C++ programmer. We begin with an introduction to C++ data structures and algorithms while also covering essential language constructs. Next, we will see how to store data using linked lists, arrays, stacks, and queues. Then, we will learn how to implement different sorting algorithms, such as quick sort and heap sort. Along with these, we will dive into searching algorithms such as linear search, binary search and more. Our next mission will be to attain high performance by implementing algorithms to string datatypes and implementing hash structures in algorithm design. We'll also analyze Brute Force algorithms, Greedy algorithms, and more. By the end of the book, you'll know how to build components that are easy to understand, debug, and use in different applications. What you will learn Know how to use arrays and lists to get better results in complex scenarios Build enhanced applications by using hash tables, dictionaries, and sets Implement searching algorithms such as linear search, binary search, jump search, exponential search, and more Have a positive impact on the efficiency of applications with tree traversal Explore the design used in sorting algorithms like Heap sort, Quick sort, Merge sort and Radix sort Implement various common algorithms in string data types Find out how to design an algorithm for a specific task using the common algorithm paradigms Who this book is for This book is for developers who would like to learn the Data Structures and Algorithms in C++. Basic C++ programming knowledge is expected.

[C++ Data Structures and Algorithms](#) Pearson College Division

Emphasizing abstract data types (ADTs) throughout, this work covers the containers and algorithms from the Standard Template Library, introducing the most up-to-date and powerful tools in C++.

Data Structures and Algorithms Athabasca University Press

Rev. ed. of: *Data abstraction and problem solving with Java* / Frank M. Carrano, Janet J. Prichard. 2007.

[A Multimedia Approach](#) Jones & Bartlett Learning

25 recipes to deeply understand and implement advanced algorithms in Clojure About This Book Explore various advanced algorithms and learn how they are used to address many real-world computing challenges Construct elegant solutions using impressive techniques including zippers, parsing, and pattern matching Solve complex problems by adopting innovative approaches such as logic or asynchronous programming In Detail Data-structures and algorithms often cross your path when you compress files, compile programs, access databases, or simply use your favourite text editor. Understanding and implementing them can be daunting. Curious learners and industrial developers can find these complex, especially if they focus on the detailed implementation of these data structures. Clojure is a highly pragmatic and expressive language with efficient and easy data manipulation capabilities. As such, it is great for implementing these algorithms. By abstracting away a great share of the unnecessary complexity resulting from implementation, Clojure and its contrib libraries will help you address various algorithmic challenges, making your data exploration both profitable and enjoyable. Through 25 recipes, you'll explore advanced algorithms and data-structures, well served by a sound Clojure implementation. This book opens with an exploration of alternative uses of the array data-structure, covering LZ77 compression, drawing fractals using Pascal's triangles, simulating a multi-threaded program execution, and implementing a call-stack winding and un-winding operations. The book elaborates on linked lists, showing you how to construct doubly linked ones, speed up search times over the elements of such structures, use a linked-

list as the foundation of a shift-reduce parser, and implement an immutable linked-list using skew binary numbers representation. After that, the tree data-structure is explored, focusing on building self-balancing Splay Trees, designing a B-Tree backing-up an efficient key-value data-store, constructing an undo capable Rope, and showing how Tries can make for an auto-completing facility. Next, some optimization and machine learning techniques are discussed, namely for building a co-occurrence-based recommendation engine, using branch-and-bound to optimize integral cost and profit problems, using Dijkstra's algorithm to determine optimal paths and summarizing texts using the LexRank algorithm. Particular attention is given to logic programming, you will learn to use this to discover interesting relations between social website data, by designing a simple type inferencer for a mini Java-like language, and by building a simple checkers game engine. Asynchronous programming will be addressed and you will design a concurrent web-crawler, an interactive HTML5 game, and an online taxi booking platform. Finally, you'll explore advanced cases for higher order functions in Clojure while implementing a recursive descent parser using efficient mutual recursion, devising a mini reusable firewall simulator thanks to Clojure 1.7 new transducers feature or building a simple unification engine with the help of Continuation Passing Style. What You Will Learn Explore alternative uses of classical data-structures like arrays and linked-lists Discover advanced types of tree data-structures Explore advanced machine learning and optimization techniques Utilise powerful Clojure libraries, such as Instaparse for parsing, core.match for pattern matching, clojure.zip for zippers, and clojure.matrix for matrix operations Learn logic programming through the usage of the library core.logic Master asynchronous programming using the core.async library See the transducers in action while resolving real-world use-cases Who This Book Is For If you are an experienced Clojure developer, longing to take your knowledge to the next level by discovering and using advanced algorithms and seeing how they can be applied to real-world problems, then this book is for you. Style and approach This book consists of a set of step-by-step recipes, each demonstrating the material covered in action so it is put in context. When necessary, pointers to further resources are provided.

The Basic Toolbox Packt Publishing Ltd

Learn Data Structures & Algorithms in Swift! Data structures and algorithms form the basis of computer programming and are the starting point for anyone looking to become a software engineer. Choosing the proper data structure and algorithm involves understanding the many details and trade-offs of using them, which can be time-consuming to learn - and confusing. This is where this book, *Data Structures & Algorithms in Swift*, comes to the rescue! In this book, you'll learn the nuts and bolts of how fundamental data structures and algorithms work by using easy-to-follow tutorials loaded with illustrations; you'll also learn by working in Swift playground code. Who This Book Is For This book is for developers who know the basics of Swift syntax and want a better theoretical understanding of what data structures and algorithms are to build more complex programs or ace a whiteboard interview. Topics Covered in *Data Structures & Algorithms in Swift* *Basic data structures and algorithms, including stacks, queues and linked lists.

*How protocols can be used to generalize algorithms. *How to leverage the algorithms of the Swift standard library with your own data structures.

*Trees, tries and graphs. *Building algorithms on top of other primitives. *A complete spectrum of sorting algorithms from simple to advanced. *How

to think about algorithmic complexity. *Finding shortest paths, traversals, subgraphs and much more. After reading this book, you'll have a solid

foundation on data structures and algorithms and be ready to solve more complex problems in your apps elegantly.

Data Structures and Algorithm Analysis in C++, Third Edition Courier Corporation

This textbook teaches introductory data structures.

[Data Structures and Algorithms Made Easy](#) Faber Publishing

Data Structures and Problem Solving Using C++ provides a practical introduction to data structures and algorithms from the viewpoint of abstract thinking and problem solving, as well as the use of C++. It is a complete revision of Weiss' successful CS2 book *Algorithms, Data Structures, and Problem Solving with C++*. The most unique aspect of this text is the clear separation of the interface and implementation. C++ allows the programmer to write the interface and implementation separately, to place them in separate files and compile separately, and to hide the implementation details. This book goes a step further: the interface and implementation are discussed in separate parts of the book. Part I (Objects and C++), 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). This separation of interface and implementation promotes abstract thinking. Class interfaces are written and used before the implementation is known, forcing the reader to think about the functionality and potential efficiency of the various data structures (e.g., hash tables are written well before the hash table is implemented). Throughout the book, Weiss has included the latest features of the C++ programming language, including a more prevalent use of the Standard Template Library (STL).

[Abstract Data Types](#) Pearson Education India

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 Algorithms with JavaScript](#) Pearson

This is an excellent, up-to-date and easy-to-use text on data structures and algorithms that is intended for undergraduates in computer science and information science. The thirteen chapters, written by an international group of experienced teachers, cover the fundamental concepts of algorithms and most of the important data structures as well as the concept of interface design. The book contains many examples and diagrams. Whenever

appropriate, program codes are included to facilitate learning. This book is supported by an international group of authors who are experts on data structures and algorithms, through its website at www.cs.pitt.edu/~jung/GrowingBook/, so that both teachers and students can benefit from their expertise.

[Data Structure and Algorithmic Puzzles, Second Edition](#) GRIN Verlag

This long-awaited second edition of Data Structures with C++ Using STL, by Professors Ford and Topp, provides a modern object-oriented approach to data structures using the model of the Standard Template Library (STL). The authors unify the study of data structures around the concepts of containers and iterators. The book skillfully develops algorithms for the data structures and their applications. Readers will find a systematic and detailed implementation for each data structure. These successful authors offer a learning tool that is motivated by a wealth of excellent examples and complete running programs. KEY FEATURES Uses the early chapters to present object design and programming principles that are at the core of data structures. Develops clear and concise templates, which can support generic programming throughout the book. Uses the STL container classes throughout the book. Presents an Application Programming Interface (API) for each STL container and immediately uses it to solve problems.

Demonstrates the implementation of the STL classes by developing mini-container classes that use the corresponding STL interface. The student can understand the overall design of the container and its C++ implementation code. Includes an intuitive and precise introduction to iterators that are at the core of modern data structures. Covers with the same careful style advanced topics such as red-black trees, hash tables, heaps, and graphs. Provides the reader with an extensive development of advanced recursion and inheritance as applied to data structures. Makes available valuable pedagogical features including chapter objectives and summaries; many complete programs with runtime output; case studies; review exercises with solutions for each chapter; extensive written and programming exercises; and a programming project for each chapter. Supplement: Instructor CD with solutions and a test item file; Companion Website containing language tutorials, students assessment materials, and PowerPoint slides.

[Data Structures with C++ Using STL](#) Prentice Hall

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.

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[Data Structures & Algorithms in Swift \(Fourth Edition\)](#) Addison-Wesley

Data Structures and Abstractions with Java is suitable 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, this unique object-oriented presentation makes a clear distinction between specification and implementation to simplify learning, while providing maximum classroom flexibility. Teaching and Learning Experience This book will provide a better teaching and learning experience—for you and your students. It will help: Aid comprehension and facilitate teaching with an approachable format and content organization: Material is organized into small segments that focus a reader’s attention and provide greater instructional flexibility. Keep your course current with updated material: Content is refreshed throughout the book to reflect the latest advancements and to refine the pedagogy. All of the Java code is Java 8 compatible. Support learning with student-friendly pedagogy: In-text and online features help students master the material.

ADA Plus Data Structures World Scientific

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.

[Algorithms and Data Structures](#) Jones & Bartlett Learning

Since 1985 Nell Dale's texts have helped shape the way computer science is taught. Now she and Henry Walker, an accomplished instructor and author in his own right, are proposing a new focus for the junior/senior level data structures course. A timely response to the prevalence of object-oriented programming, this new text expands the focus of the advanced data structures course to examine not only the structure of a data object but also its type. This new focus gives students the opportunity to look at data objects from the point of view of both user and implementer.