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Data Structures and Prob Solving with Java (Professional Copy)

Weiss Mark Allen

Note: This is not the actual book cover

Data Structures And Problem Solving With Java Professional Copy

Allen B. Downey



Data Structures And Problem Solving With Java Professional Copy:

Data Structures and Problem Solving with Java Mark Allen Weiss, 1997-11-01 **Data Structures and Algorithms Using Java** William McAllister, 2009 **Data Structures Theory of Computation** **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 **Think Data Structures** Allen B. 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 **Object-oriented Data Structures Using Java** Nell B. Dale, Daniel T. Joyce, Chip Weems, 2002 Data Structures in Java is a continuation of Nell Dale's best-selling Introduction to Java and Software Design text Data Structures is designed for students who have already taken one semester of computer science and are able to take a problem of medium complexity write an algorithm to solve the problem code the algorithm in a programming language and demonstrate the correctness of their solution The focus is on teaching computer science principles with chapter concepts being reinforced by case studies The object-oriented concepts of encapsulation inheritance and polymorphism are covered while the book remains centered on abstract data types **Think Like a Programmer V.** Anton Spraul, 2012-08-12 The real challenge of programming isn't learning a language's syntax it's learning to creatively solve problems so you can build something great In this one-of-a-kind text author V Anton Spraul breaks down the ways that programmers solve problems and teaches you what other introductory books often ignore how to Think Like a Programmer Each chapter tackles a single programming concept like classes pointers and recursion and open-ended exercises throughout challenge you to apply your knowledge You'll also learn how to Split problems into discrete components to make them easier to solve Make the most of code reuse with functions classes and libraries Pick the perfect data structure for a particular job

Master more advanced programming tools like recursion and dynamic memory Organize your thoughts and develop strategies to tackle particular types of problems Although the book's examples are written in C the creative problem solving concepts they illustrate go beyond any particular language in fact they often reach outside the realm of computer science As the most skillful programmers know writing great code is a creative art and the first step in creating your masterpiece is learning to Think Like a Programmer

Programming Scala Dean Wampler,Alex Payne,2014-12-04 Get up to speed on Scala the JVM language that offers all the benefits of a modern object model functional programming and an advanced type system Packed with code examples this comprehensive book shows you how to be productive with the language and ecosystem right away and explains why Scala is ideal for today's highly scalable data centric applications that support concurrency and distribution This second edition covers recent language features with new chapters on pattern matching comprehensions and advanced functional programming You'll also learn about Scala's command line tools third party tools libraries and language aware plugins for editors and IDEs This book is ideal for beginning and advanced Scala developers alike Program faster with Scala's succinct and flexible syntax Dive into basic and advanced functional programming FP techniques Build killer big data apps using Scala's functional combinators Use traits for mixin composition and pattern matching for data extraction Learn the sophisticated type system that combines FP and object oriented programming concepts Explore Scala specific concurrency tools including Akka Understand how to develop rich domain specific languages Learn good design techniques for building scalable and robust Scala applications

The Object-oriented Thought Process Matt A. Weisfeld,2004 A new edition of this title is available ISBN 10 0672330164 ISBN 13 9780672330162 The Object Oriented Thought Process Second Edition will lay the foundation in object oriented concepts and then explain how various object technologies are used Author Matt Weisfeld introduces object oriented concepts then covers abstraction public and private classes reusing code and developing frameworks Later chapters cover building objects that work with XML databases and distributed systems including EJBs NET Web Services and more Throughout the book Matt uses UML the standard language for modeling objects to provide illustration and examples of each concept

A software engineer organizer - new special solution A. Юрков,А. Хитёв,2020-06-02 Issues which make engineers choose and use work time organizing systems are reviewed in this article In addition an overview of modern applications from this segment is provided and a notes system is proposed as a simple and effective tool to increase workflow effectiveness And finally requirements model and development principles for an application to solve all these issues are described The application was developed on the basis of the Spring Boot framework with partial use of the Domain Driven Development ideas It has a good level of code coverage by autotests due to using the Test Driven Development For posting of source codes in the Internet the GitHub repository and the free open source software GPL v3 license have been chosen The developed organizer helps to avoid waste of time for searching old data in case of work resumption under tickets suspended some time ago due to systematization of all required information

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