

Data Structures And Algorithm Analysis In Java

Clifford A. Shaffer

Data Structures And Algorithm Analysis In Java:

Data Structures and Algorithm Analysis in Java Mark Allen Weiss, 2012 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 Algorithm Analysis in Java Mark Allen Weiss.2013 Data Structures and Algorithm Analysis in C Mark Allen Weiss, 1997 In this second edition of his best selling book Data Structures and Algorithm Analysis in C Mark Allen Weiss continues to refine and enhance his innovative approach to algorithms and data structures Using a C implementation he highlights conceptual topics focusing on ADTs and the analysis of algorithms for efficiency as well as performance and running time Dr Weiss also distinguishes Data Structures and Algorithm Analysis in C with the extensive use of figures and examples showing the successive stages of an algorithm his engaging writing style and a logical organization of topics greedy algorithms divide and conquer algorithms dynamic programming randomized algorithms and backtracking Presents current topics and newer data structures such as Fibonacci heaps skew heaps binomial queues skip lists and splay trees Contains a chapter on amortized analysis that examines the advanced data structures presented earlier in the book Provides a new chapter on advanced data structures and their implementation covering red black trees top down splay trees treaps k d trees pairing heaps and more Incorporates new results on the average case analysis of heapsort Offers source code from example programs via anonymous FTP 0201498405B04062001 Data Structures and Algorithm Analysis in Java Mark A. Weiss, 2011-11-21 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book 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 This text is for readers who want to learn good programming and algorithm analysis skills simultaneously so that they can develop such programs with the maximum amount of efficiency Readers should have some knowledge of intermediate programming including topics as object based programming and recursion and some background in discrete math 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 Algorithm Analysis in C++* Mark Allen Weiss, 2006 Mark Allen Weiss innovative approach to algorithms and data structures teaches the simultaneous development of sound analytical and programming skills for the advanced data structures course Readers learn how to reduce time constraints and develop programs efficiently by analyzing the feasibility of an algorithm before it is coded The C language is brought up to date and simplified and the Standard Template Library is now fully incorporated throughout the text This Third Edition also features significantly revised coverage of lists stacks queues and trees and an entire chapter dedicated to amortized analysis and advanced data structures such as the Fibonacci heap Known for its clear and friendly writing style Data Structures and Algorithm Analysis in C is logically organized to cover advanced data structures topics from binary heaps to sorting to NP completeness Figures and examples illustrating successive stages of algorithms contribute to Weiss careful rigorous and in depth analysis of each type of algorithm Data Structures & Algorithm Analysis in Java Clifford A. Shaffer, 2011-01-01 A comprehensive treatment focusing on the creation of efficient data structures and algorithms this text explains how to select or design the data structure best suited to specific problems It uses Java as the programming language and is suitable for second year data structure courses and computer science courses in algorithmic analysis Data Structures and Problem Solving Using Java Mark Allen Weiss, 2002 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 NE Data Structures and Algorithm Analysis in Java Mark Weiss Staff, 2003-06-01 A Practical Introduction to Data Structures and Algorithm Analysis Clifford A. Shaffer, 1997 Offers a treatment of fundamental data structures and the principles of algorithm analysis for first and second year students in computer science and related fields The author focuses on the principles required to select or design the best data structure to solve a problem Data

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