



Data Structures and Algorithm Analysis in C (2nd Edition)

By Weiss, Mark A.

Pearson, 1996. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: (All chapters, except Chapter 3, conclude with a Summary, Exercises and References.) 1. Introduction. What's the Book About? Mathematics Review. Exponents. Logarithms. Series. Modular Arithmetic. The P word. A Brief Introduction to Recursion. 2. Algorithm Analysis. Mathematical Background. Model. What to Analyze. Running Time Calculations. A Simple Example. General Rules. Solutions for the Maximum Subsequence Sum Problem. Logarithms in the Running Time. Checking Your Analysis. A Grain of Salt. 3. Lists, Stacks, and Queues. Abstract Data Types (ADTs). The List ADT. Simple Array Implementation of Lists. Linked Lists. Programming Details. Common Errors. Doubly Linked Lists. Circularly Linked Lists. Examples. Cursor Implementation of Linked Lists. The Stack ADT. Stack Model. Implementation of Stacks. Applications. The Queue ADT. Queue Model. Array Implementation of Queues. Applications of Queues. 4. Trees. Preliminaries. Implementation of Trees. Tree Traversals with an Application. Binary Trees. Implementation. Expression Trees. The Search Tree ADT-Binary Search Trees. MakeEmpty. Find. FindMin and FindMax. Insert. Delete. Average-Case Analysis. AVL Trees. Single Rotation. Double Rotation. Splay Trees. A Simple Idea (That Does Not Work). Splaying. Tree Traversals (Revisited). B-Trees. 5. Hashing. General Idea. Hash Function. Separate Chaining....



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