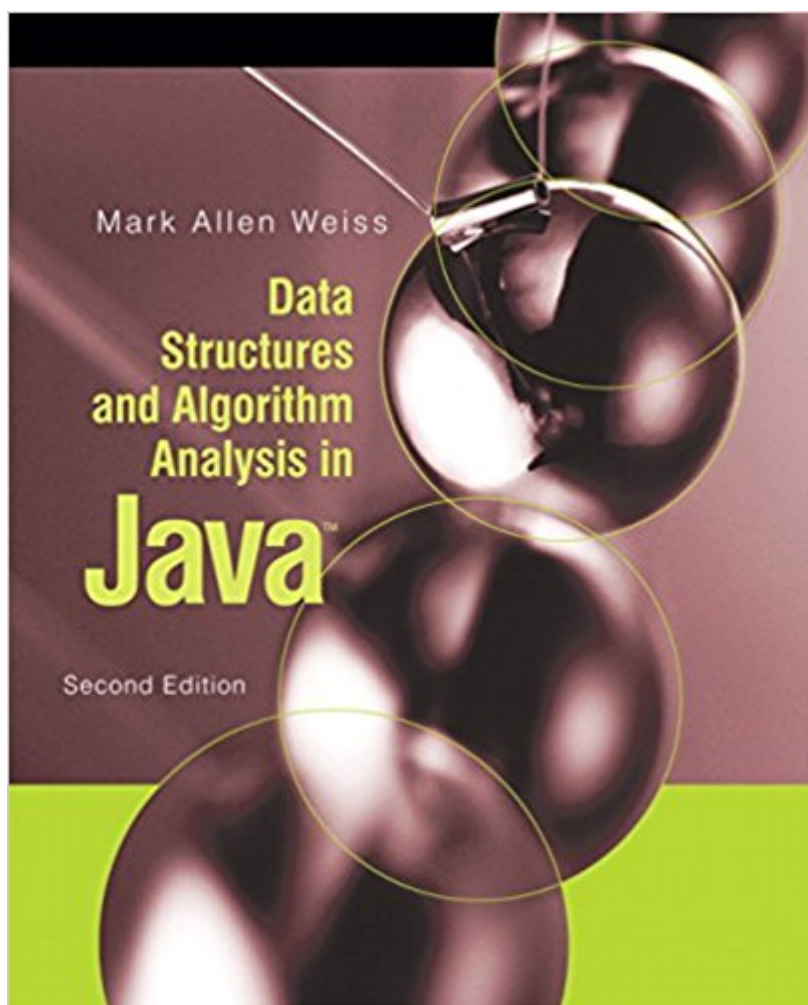


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# Data Structures And Algorithm Analysis In Java (2nd Edition)



## Synopsis

In this text, readers are able to look at specific problems and see how careful implementations can reduce the time constraint for large amounts of data from several years to less than a second. This new edition contains all the enhancements of the new Java 5.0 code including detailed examples and an implementation of a large subset of the Java 5.0 Collections API. 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.

## Book Information

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## Customer Reviews

Advanced Data Structures/Algorithms Java   Data Analysis and Algorithm Analysis in Java, 2/e  
Mark Allen Weiss, Florida International University ISBN : 0-321-37013-9   As the speed and power of computers increase, so does the need for effective programming and algorithm analysis. Mark Allen Weiss approaches these skills jointly to teach the development of well-constructed, maximally efficient programs in Java.   Readers benefit from the full language update to Java 5.0, including generics, and the integrated coverage of the Java Collections Library in this advanced study of data structures and algorithms. Weiss clearly explains his careful, rigorous and in-depth analysis of each type of algorithm.   This Second Edition features:   • Full integration of the new Java 5.0 programming language and the Java Collections Library   • Enhanced interior

design, with figures and examples illustrating successive stages of algorithms

- Completely revised coverage of lists, stacks, and queues in Chapter 3
- Full chapter dedicated to the implementation of amortized analysis and advanced data structures
- End-of-chapter exercises, ranked by difficulty, reinforce key chapter concepts

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Weiss stresses the importance of recursion and shows many good (and a bad) uses of recursion. Chapter 2 illustrates bad and good algorithms with elegant examples - all the algorithms and their computational complexities are explained in detail very well in Sec. 2.4.3. I could not wait to get to the  $O(N)$  algorithm, and then there is the surprise - it is so simple, what the heck am I missing? And then you realize you are not dumb and the short program does involve some serious intelligence behind it!

PROs: decent coverage of the material  
CONs: mediocre writing style ("Irregardless"?) and coding style; occasional bugs/typos in example code; poor explanation of Java generics

I used this for my college course. And it's pretty straight forward, but I wish there was more concise information.

Thorough.

This book is quite advanced as many others have written in their reviews. Maybe it should have had a "pre-requisites" section, telling what background the author expects from the reader. BUT with that said, I love this book and could not put it down from the time I started reading it. Weiss has driven the points across very well. Right from page 1 the book is quite exciting to read. Weiss stresses the importance of recursion and shows many good (and a bad) uses of recursion. Chapter 2 illustrates bad and good algorithms with elegant examples - all the algorithms and their computational complexities are explained in detail very well in Sec. 2.4.3. I could not wait to get to the  $O(N)$  algorithm, and then there is the surprise - it is so simple, what the heck am I missing? And then you realize you are not dumb and the short program does involve some serious intelligence behind it! This book has really flexed my mind very well and I love reading it! I am sure I will learn a lot more as I read more from it. And I feel this book does not deserve a poor 3-point rating and does deserve more 5-point ratings by advanced readers.

I felt the author has a firm understanding of the concepts and truly what he wanted to convey, but this book lacked a great deal for beginners or newcomers to Java. Far too many of the examples were tough to understand and in many cases simply un-answered. This is not a book for beginners.

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