Data Structures and Algorithms Made Easy in Java: Data Structure and Algorithmic Puzzles

By Narasimha Karumanchi

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Peeling Data Structures and Algorithms **[re-printed on 19-August-2016]:**
Table of Contents: goo.gl/hMYJGq
Sample Chapter: goo.gl/DqVs8p
Source Code: goo.gl/e3imfV
Videos: goo.gl/BcHq74

A handy guide of sorts for any computer science professional, *Data Structures And Algorithms Made Easy in Java: 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 in Java: Data Structure And Algorithmic Puzzles by Narasimha Karumanchi was published in 2011, and it is coded in Java language. This book serves as guide to prepare for interviews, exams, and campus work. It is also available in C/C++. 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 ennumerated 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:

1. Introduction
2. Recursion and Backtracking
3. Linked Lists
4. Stacks
5. Queues
6. Trees
7. Priority Queue and Heaps
8. Disjoint Sets ADT
9. Graph Algorithms
10. Sorting
11. Searching
12. Selection Algorithms [Medians]
13. Symbol Tables
14. Hashing
15. String Algorithms
16. Algorithms Design Techniques
17. Greedy Algorithms
18. Divide and Conquer Algorithms
19. Dynamic Programming
20. Complexity Classes
21. Miscellaneous Concepts

Target Audience?

These books prepare readers for interviews, exams, and campus work.

Language?

All code was written in Java. If you are using C/C++, please search for "Data Structures and Algorithms Made Easy".
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Also, check out sample chapters and the blog at: CareerMonk.com

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Data Structures and Algorithms Made Easy in Java: Data Structure and Algorithmic Puzzles By Narasimha Karumanchi Bibliography

- Sales Rank: #370540 in Books
- Published on: 2013-08-20
- Original language: English
- Number of items: 1
- Dimensions: 11.00" h x 1.02" w x 8.50" l, 1.59 pounds
- Binding: Paperback
- 450 pages

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Editorial Review

Review

This is a great programming book with respect to data structures and algorithms. The author have been able to gather all sort of interesting problems from all corners of computer science. If one is able to understand and internalize all the solutions presented in this book, one will, in my mind, become a solid expert, capable of solving any kind of issues that can be found in the field of software development. In writing comment for this book, I don't know what else to write beyond those good words that have been said about the book in the five star category. In that, I just want to add my comments regarding the use of Java and the math nature of the problems. First, even though Java is used to demonstrate the solutions, it's used very succinctly with just enough Java constructs to make the point, making the code snippets small - an attribute that all programmers can appreciate. Secondly, since Java is considered as a natural, neutral language , its actually a good choice to use in expressing problem/solution in data structure and algorithm topics, which the book is all about. The fact the author approach many solutions from a point of view mathematic makes the book more valuable because all algorithm concepts such time complexity, binary search, etc, are based on mathematical reasoning's. **--Thomas R. C.**

From the Author
Objective of this book is to present the ideas for solving data-structure and algorithmic problems. I request to go through the first chapter as it describes when do we (situations) get different complexities like $O(\log n)$, $O(n^2)$, $O(\log\log n)$, $O(n\log n)$, $O(2^n)$ etc.. Once you understand them, remaining chapters looks easy as we refer these complexities at every place.

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