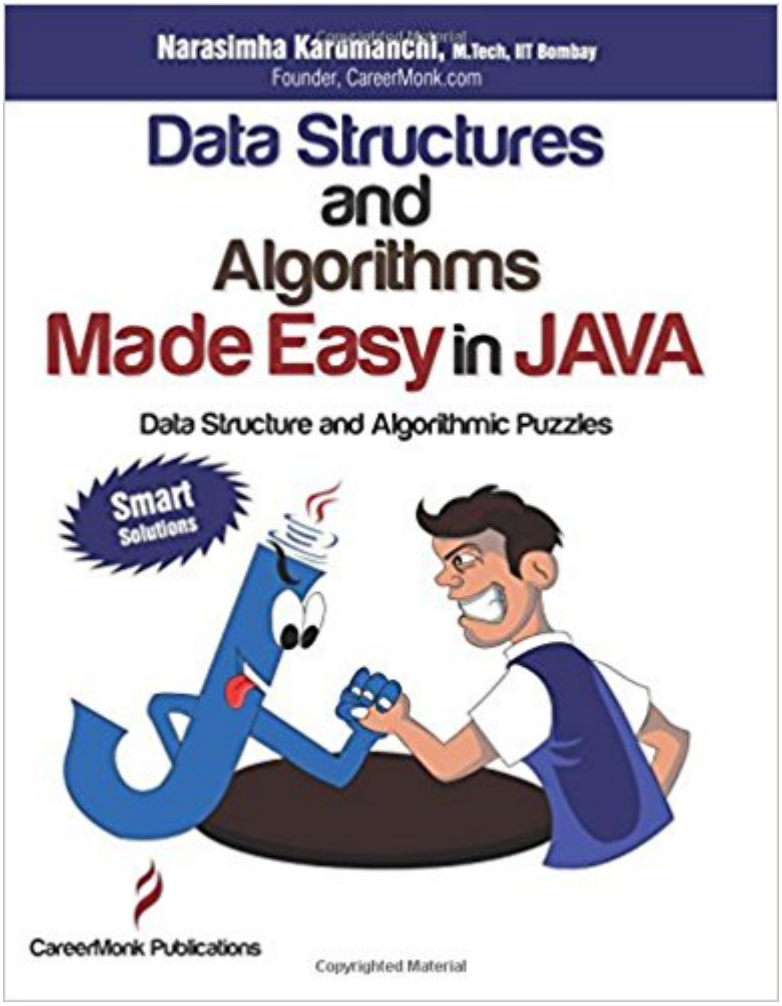
Data Structures And Algorithms Made Easy In Java: Data Structure And Algorithmic Puzzles



Synopsis

PeelingÂ Data Structures and AlgorithmsÂ [re-printed on 19-August-2016]:Table of Contents: goo.gl/hMYJGqSample Chapter: goo.gl/DqVs8pSource Code:Â goo.gl/e3imfVVideos:Â goo.gl/BcHq74A handy guide of sorts for any computer science professional,Â Data Structures And Algorithms Made Easy in Java: Data Structure And Algorithmic PuzzlesÂ 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?Â Â Â Our main objective isn't to propose theorems and proofs about DS and Algorithms. WeÂ took the direct route andÂ solved problemsÂ ofÂ varying complexities. That is, each problem corresponds to multiple solutions withÂ different complexities.Â In other words, we ennumerated possible solutions. With this approach, evenÂ when aÂ new question arises,Â weÂ offer a choice ofÂ different solution strategies based onÂ your priorities.Topics Covered:IntroductionRecursion and BacktrackingLinked ListsStacksQueuesTreesPriority Queue and HeapsDisjoint Sets ADTGraph AlgorithmsSortingÂ Â Â SearchingÂ Â Â Selection Algorithms [Medians]Â Â Â Symbol TablesÂ Â Â HashingÂ Â Â String AlgorithmsÂ Â Â Algorithms Design TechniquesÂ Â Â Greedy AlgorithmsÂ Â Â Divide and Conquer AlgorithmsÂ Â Â Dynamic ProgrammingÂ Â Â Complexity ClassesÂ Â Â Miscellaneous ConceptsÂ Â Â Target Audience?Â Â Â These books prepare readers for interviews, exams, and campus work.Â Language?All code was written in Java. If you are using C/C++, please search for "Data Structures and Algorithms Made Easy".Note: If you already haveÂ "Data Structures and Algorithms Made Easy" no need to buy this.Also, check out sample chapters and theÂ blog at: CareerMonk.com

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Customer Reviews

flipkart.com/data-structures-algorithms-made-easy-java-structure-algorithmic-puzzles-english/p/itmehdzjna6mtrxp?pid=9788192107554This 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 mathematicalÂ reasoning's.Â --Thomas R. C.Â

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(logn), O(n^2), O(loglogn), O(nlogn), O(2^n) etc.. Once you understand them,

remaining chapters looks easy as we refer these complexities at every place.

One of the best book for learning algorithms.the concepts of data structures are also explained very well with diagrams. Must buy if you wish to crack interviews along with Cracking the code book.

Seriously this is such a good book to read. The code examples are really up to the mark. It is difficult to find this level of detail in most other interview preparation books and I mean even crack the coding. At the same time the book is comprehensive and simple. Especially KMP which is so easily implemented in the book. Hats off to the author. Great job, looking forward to more.

This is a decent book if you are just starting to prepare for a tech interview (in Java). The chapter on LinkedLists, Queues and Trees are okay. Helps build concepts and confidence as it's very hands-on. The book is not comprehensive though, so would definitely recommend referring other books after completing this.

It's a good book with great explanations and ideas but it's not without problems. It wasn't hard to identify a few problems with some algorithms. One of them fetches the next item in a collection twice inside the loop but only checked the value once. Another function was set to return void but in the code they're returning null. This isn't even legal. If you can see past the problems you can still gain a lot of knowledge from the material.

This book is a good compilation of algorithmic problems for technical interviews. The chapters are well organized with related basic data structures and problems. The main thing is that there are multiple solutions provided in this book for each problem with different level of space and time complexities. This will help everybody to get insight of attacking difficult problem in the interviews. Some of the Java coding in the book have some typos. I hope the author will fix those in the next edition.

Well , I got what i was looking out from this book , though not exactly got benefited of it . Was looking more detailed explanation & approach to the solution of any problem. It did helped me in improving my algorithm thinking , but would have expected more from it , especially when one has lost touch with algorithms after college!.. but still overall a great book!.

Finally a book on algorithms that is not so intimidating as the CLR. Concepts explained very clearly and to the point. For those struggling with the DS challenges faced during interviews it’s a good pick. ItÃ¢Â Â™s a good book especially for people from non-computer science background to sharpen their fundamentals to deliver better and efficient algorithms catering both product/service based IT industries; can be used as a reference manual too.

The author does a great job of covering a very large number of topics that you’d expect to face in an interview with bigger software development companies. I found the way the questions started off easier and built to be very helpful in grasping the topics. It was also good to be able to contact the author with further questions.

Through Friday Easy to Tough Crossword Puzzles: 50 Puzzles from the Pages of The New York Times (New York Times Crossword Puzzles) Algorithmic Puzzles