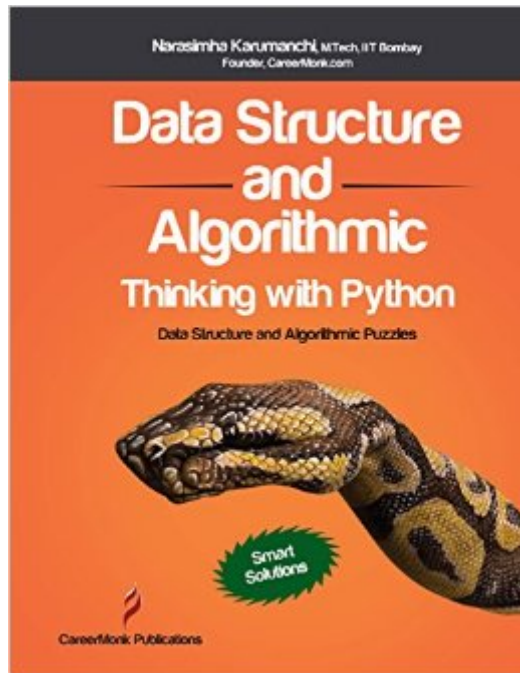# Data Structure And Algorithmic Thinking With Python: Data Structure And Algorithmic Puzzles

Synopsis

 Peeling Data Structures and Algorithms [re-printed on 21-January-2016]: Table of Contents: goo.gl/VLEUca Sample Chapter: goo.gl/8AEcYk Source Code: goo.gl/L8Xxdt Errata: goo.gl/EVftls Found issue? goo.gl/forms/uLXGYpyuzX Videos: goo.gl/BcHq74The sample chapter should give you a very good idea of the quality and style of our book. In particular, be sure you are comfortable with the level and with our Python coding style. This book focuses on giving solutions for complex problems in data structures and algorithm. It even provides multiple solutions for a single problem, thus familiarizing readers with different possible approaches to the same problem. "Data Structure and Algorithmic Thinking with Python" is designed to give a jump-start to programmers, job hunters and those who are appearing for exams. All the code in this book are written in Python. It contains many programming puzzles that not only encourage analytical thinking, but also prepares readers for interviews. This book, with its focused and practical approach, can help readers quickly pick up the concepts and techniques for developing efficient and effective solutions to problems.Topics Covered:Organization of chaptersIntroductionRecursion and BacktrackingLinked ListsStacksQueuesTreesPriority Queue and HeapsDisjoint Sets ADTGraph AlgorithmsSorting   Searching   Selection Algorithms [Medians]   Symbol Tables   Hashing   String Algorithms   Algorithms Design Techniques   Greedy Algorithms   Divide and Conquer Algorithms   Dynamic Programming   Complexity Classes   Miscellaneous Concepts

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Customer Reviews

For the last 7 days, I have been reading (7 to 8 hours a day) this book beginning with preface. I purchased this on another (NOOK) site which has a lower price than .The Chapter ZERO is more of telling about the book and each chapter's content. The core of the book which other books missing is the first chapter. This chapter introduces the time complexities in much simpler way and even a non CS background members can also follow. For example, it nicely presents the O (log n) codes with different scenarios. It covers most of the commonly used time/space complexities and different codes so that it makes us to relate when we encounter them in subsequent chapters.This followed by Linked Lists (my most liked chapter along with Trees chapter), Stacks, Queues and Trees covers the base and fundamental data structures. I could not see this kind of presentation in any other books. This is the first time I witnessed the new presentation of data structures in simpler and logical thought provoking way.Followed by these it covers other algorithms like Searching, Sorting, hashing etc..I liked fundamental algorithms than Greedy, D&C, and Dynamic Programming chapters. The Dynimic Prgogramming chapter is usually the complicated concept, but this book covers the problems with recursive approach (missing memorization for many problems). It covers this chapter with coding/programming, interviews in mind and it is not enough for courses and research.From freshers (college grads) to experienced software professionals, everyone will be captivated by this excellent written, well-organized, well illustrated set of questions and answers.

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