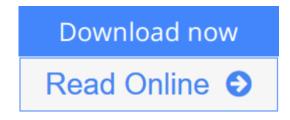# DATA STRUCTURES AND ALGORITHMS FOR GATE: Data Structure and Algorithmic Puzzles

By Narasimha Karumanchi

DATA STRUCTURES AND ALGORITHMS FOR GATE: Data Structure and Algorithmic Puzzles By Narasimha Karumanchi

Success key books for:

- Programming puzzles for interviews
- Campus Preparation
- Degree/Masters Course Preparation
- Instructor's
- Big job hunters: Microsoft, Google, Amazon, Yahoo, Flip Kart, Adobe, IBM Labs, Citrix, Mentor Graphics, NetApp, Oracle, Webaroo, De-Shaw, Success Factors, Face book, McAfee and many more
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Main objective is not to give you the theorems and proofs about DS and Algorithms. I have followed a pattern of improving the problem solutions with different complexities (for each problem, you observe multiple solutions with different improved complexities). Basically, its an enumeration of possible solutions. With this approach, even if we get a new question it gives us a way to think about all possible solutions.

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All code was written in *C*. I am planning to release the same in Java and as of now there is no time bound for this :)

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The main objective of this book is to make people aware of importance of data structures and algorithms.

As a *job seeker* if you read the referenced books completely with good understanding, I am sure you will *challenge the interviewers* and that is the main objective.

If you read as an *instructor*, you will give better lectures with easy go approach and a result your students will feel proud for selecting Computer Science/Information Technology as their degree.

These books are very much useful for the students of *Engineering* and *Masters* during their academic preparations. All the chapters of this book contain theory and their related problems as many as possible. There are a total of approximately 700+ algorithmic problems and all of them are with solutions.

And finally if you read as a *student* preparing for competition exams [or any other exam for Computer Science/Information Technology], then the content of this book covers all the required topics in full detail. While writing the book, an intense care has been taken to ensure that the content should help students who are preparing for these kinds of exams.

In all the chapters you will see more importance given to problems and analyzing them instead of concentrating more on theory. For each chapter, first you will see the basic required theory and then problems.

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Editorial Review

Review

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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(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.

Also, give one complete reading of the book before trying compiling (at places we skipped boundary conditions).

From the Back Cover
Key features of book for:

- All code written and tested in C
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- Degree/Masters Course Preparation
- Instructor's
- GATE Preparation
- **Big job hunters:** Microsoft, Google, Amazon, Yahoo, Flip Kart, Adobe, IBM Labs, Citrix, Mentor Graphics, NetApp, Oracle, Webaroo, De-Shaw, Success Factors, Face book, McAfee and many more
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