



# Coding Interview Questions

By Narasimha Karumanchi

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"Coding Interview Questions" is a book that presents interview questions in a simple and straightforward manner with a clear-cut explanation. This book will provide an introduction to the basics. It comes handy as an interview and exam guide for computer scientists.

## Topics Covered:

- Programming Basics
- Introduction
- Recursion and Backtracking
- Linked Lists
- Stacks
- Queues
- Trees
- Priority Queue and Heaps
- 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
- Design Interview Questions
- Operating System Concepts
- Computer Networking Basics

- Database Concepts
- Brain Teasers
- NonTechnical Help
- Miscellaneous Concepts

**Note:** If you already have "Data Structures and Algorithms Made Easy" no need to buy this.

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### Editorial Review

Review

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The other "big hitter" coding interview books which everyone knows about and which I review and compare frequently for our library purchasers:

For VERY ADVANCED programmers, and assume you already know a LOT about trees, hash tables, arrays, matrices, etc. KARUMANCHI IS REFRESHINGLY DIFFERENT!

Nara does NOT assume you're a veteran programmer or a recent high level grad in the dream interview! He assumes you (maybe) know a little IT and a lot of Engineering or Math, for example, or that you're an older manager who is great at systems and strategy but rusty on coding. OR, maybe you're on the embedded or data science side and your programming is very deep (circuit/assembly) or broad (data mining) but not necessarily OOP style algos and data structures.

There is no book quite like this, because, even though it is in a different category than the 4 biggies above, it should appeal to a much bigger audience, not only for a certain type of interview (a little or no direct coding but perhaps managing people who do?) but a vast range of newer job types. Example: "Data Scientist" is a brand new, warp speed growing occupation with starting salaries as high as 200K US, and some firms are even creating "CDSO" positions (Chief Data Science Officer).

The other thing Nara does, is give progressively more detailed and complex solutions to the same problems-- allowing you to go as shallow or deep as you'd like. From my field (math) an example would be: If you can code at interpreter level in Maple or Mathematica or GNU, it will compile and run, but not nearly as fast as if you know C++, algos, data structures and even a little assembly.

If the job description says you'll be tested with phony problems to actually code in the interview, the other big four above are the ticket, but if the position only needs you to UNDERSTAND algos and DS's, Karumanchi is awesome. It also is a great (good sized), up to date REFERENCE for all levels of IT from Data scientists to math, engineering, research, physics, chemistry, etc. Even "R" folks like me can learn a LOT. When I create tutorials, if the students want a specific language to supplement this, I have them review a specific, usually older and used text like Lafore (Data Structures and Algorithms in Java (2nd Edition)) or any other in Python, C++, R, etc. Highly recommended for that somewhat different, unique, but GREAT job-- go for it and good luck!

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From the Author

This book assumes you have some basic knowledge about computer science. Main objective of the book is not to provide you all the interview questions. I have followed a pattern of improving the problem solutions

with different complexities (for each problem, you observe multiple solutions with different improved complexities in data structure and algorithmic problems). Basically, it is 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. For all other topics, it will act as refreshment. This book is very much useful for interview preparation, competitive exams preparation and campus preparations.

As a job seeker if you read complete book with good understanding, I am sure you will challenge the interviewers and that is the objective of this book.

This book is very much useful for the students of Engineering Degree and Masters during their academic preparations. All the chapters of this book contain theory and their related problems as many as possible. If you read as a student preparing for competition exams for Computer Science/Information Technology], the content of this book covers all the required topics in full details. While writing the book, an intense care has been taken to help students who are preparing for these kinds of exams.

In most 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 followed by problems.

For many of the problems, multiple solutions are provided with different complexities. We start with brute force solution and slowly move towards the best solution possible for that problem. For each problem we will try to understand how much time the algorithm is taking and how much memory the algorithm is taking.

About the Author

**Narasimha Karumanchi** is the founder of CareerMonk Publications and author of few books on data structures, algorithms, and design patterns. He was a software developer who has been both interviewer and interviewee over his long career. Most recently he worked for Amazon Corporation, IBM Software Labs, Mentor Graphics, and Microsoft. Narasimha holds an M.Tech. in computer science from IIT, Bombay, and B.Tech. from JNT university. He authored the following books which got translated to international languages: Chinese, Japanese, Korea and Taiwan. Also, around 58 international universities were using these books as reference for academic courses.

- Data Structures and Algorithms Made Easy
- IT Interview Questions
- Data Structures and Algorithms for GATE
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