



# Data Structure and Algorithmic Thinking with Python: Data Structure and Algorithmic Puzzles

By Narasimha Karumanchi

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"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 chapters
- Introduction
- 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
- Miscellaneous Concepts

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*By Narasimha Karumanchi*

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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.

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