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(quickly and easily!)

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The author solves every problem presented in the book using C/C++, which means knowledge of these Page 7/25

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The previous version was a great collection of funny puzzles and it proved its value. Since the previous book is already quite thick, instead of keeping adding more puzzles into it, I decide to write a new edition with all the new puzzles inside. If you are preparing the programming interview for a software engineer position, you might want to look at this book. Make sure you have basic

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Knowledge of data structure and algorithm, because this book is mostly focus on how to resolve the coding puzzles with existing data structure and algorithm. If you need some refresh of data structure and algorithm, there is a good book you might want to take a look first, by Thomas H. Cormen. In this new version, there are 53 new puzzles. Again and again, this book is used to present how to analysis a problem and solve the challenge with some existing algorithms. Improving your ability of solveing the problem is much more important than writing the code..

A hands-on, problem-based introduction to building algorithms and data structures to solve problems with a computer. Algorithmic Thinking will teach you how to solve challenging programming problems and design your own algorithms. Daniel Zingaro, a master teacher, draws

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his examples from world-class programming competitions like USACO and IOI. You'll learn how to classify problems, choose data structures, and identify appropriate algorithms. You'll also learn how your choice of data structure, whether a hash table, heap, or tree, can affect runtime and speed up your algorithms; and how to adopt powerful strategies like recursion, dynamic programming, and binary search to solve challenging problems. Line-by-line breakdowns of the code will teach you how to use algorithms and data structures like:

- The breadth-first search algorithm to find the optimal way to play a board game or find the best way to translate a book
- Dijkstra's algorithm to determine how many mice can exit a maze or the number of fastest routes between two locations
- The union-find data structure to answer questions about connections in a social

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network or determine who are friends or enemies • The heap data structure to determine the amount of money given away in a promotion • The hash-table data structure to determine whether snowflakes are unique or identify compound words in a dictionary NOTE: Each problem in this book is available on a programming-judge website. You'll find the site's URL and problem ID in the description. What's better than a free correctness check?

What will you learn from this book? It ' s no secret the world around you is becoming more connected, more configurable, more programmable, more computational. You can remain a passive participant, or you can learn to code. With Head First Learn to Code you ' ll learn how to think computationally and how to write code to make your computer, mobile

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device, or anything with a CPU do things for you. Using the Python programming language, you ' ll learn step by step the core concepts of programming as well as many fundamental topics from computer science, such as data structures, storage, abstraction, recursion, and modularity. Why does this book look so different? Based on the latest research in cognitive science and learning theory, Head First Learn to Code uses a visually rich format to engage your mind, rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multi-sensory learning experience is designed for the way your brain really works.

The real challenge of programming isn't learning a language's syntax—it's learning to creatively solve problems so you can build something great. In this one-of-a-

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Kind text, author V. Anton Spraul breaks down the ways that programmers solve problems and teaches you what other introductory books often ignore: how to Think Like a Programmer. Each chapter tackles a single programming concept, like classes, pointers, and recursion, and open-ended exercises throughout challenge you to apply your knowledge. You'll also learn how to:

- Split problems into discrete components to make them easier to solve
- Make the most of code reuse with functions, classes, and libraries
- Pick the perfect data structure for a particular job
- Master more advanced programming tools like recursion and dynamic memory
- Organize your thoughts and develop strategies to tackle particular types of problems

Although the book's examples are written in C++, the creative problem-solving concepts they illustrate go beyond any particular language; in fact, they often

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- Write programs that make decisions
- Make code more efficient with while and for loops
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Python, but you ' ll also understand how to think through problems and tackle them with code. Programming languages come and go, but this book gives you the lasting foundation you need to start thinking like a programmer.

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- Write programs that make decisions
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- Use Python sets, lists, and dictionaries to organize, sort, and search data
- Design programs using functions and top-down design
- Create complete-search algorithms and use Big O notation to design more efficient code

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