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Computational Thinking. Students use the steps of computational thinking (decompose, pattern match, abstract, algorithm) to figure out how to play a game that comes with no instructions.

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----- Coding Galaxy is a platform for learning computational thinking, designed for students aged 5 or above. The complete teaching package includes learning software, unplugged activities, teaching plans and tools, and learning

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reports.

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 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. This book has 105 puzzles. Every puzzle contains a detailed explanation and some implementations.

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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 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

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how to analysis a problem and solve the challenge with some existing algrithoms. 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 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

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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 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

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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 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,

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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-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

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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 reach outside the realm of computer science. As the most skillful programmers know, writing great code is a creative art—and the first step in

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creating your masterpiece is learning to Think Like a Programmer.

Learn to Code by Solving Problems is a practical introduction to programming using Python. It uses coding-competition challenges to teach you the mechanics of coding and how to think like a savvy programmer. Computers are capable of solving almost any problem when given the right instructions. That's where programming comes in. This beginner's book will have you writing Python programs right away. You'll solve interesting problems drawn from real coding competitions and build your programming skills as you go. Every chapter presents problems from coding challenge websites, where online judges test your solutions and provide targeted

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feedback. As you practice using core Python features, functions, and techniques, you'll develop a clear understanding of data structures, algorithms, and other programming basics. Bonus exercises invite you to explore new concepts on your own, and multiple-choice questions encourage you to think about how each piece of code works. You'll learn how to:

- Run Python code, work with strings, and use variables
- Write programs that make decisions
- Make code more efficient with while and for loops
- 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

By the end of the book, you'll not only be proficient in Python, but you'll also understand how to

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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.

Empower tomorrow's tech innovators Our students are avid users and consumers of technology. Isn't it time that they see themselves as the next technological innovators, too?

Computational Thinking and Coding for Every Student is the beginner's guide for K-12 educators who want to learn to integrate the basics of computer science into their curriculum.

Readers will find Strategies and activities for teaching computational thinking and coding inside and outside of school, at any grade level, across disciplines Instruction-

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ready lessons for every grade A discussion guide and companion website with videos, activities, and other resources

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only be proficient in 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.

It is the Python version of "Data Structures and Algorithms Made Easy." Table of Contents: goo.gl/VLEUca Sample Chapter: goo.gl/8AEcYk Source Code: goo.gl/L8Xxdt The 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

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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 include: Organization of Chapters Introduction Recursion and Backtracking Linked Lists Stacks Queues Trees Priority Queues and Heaps Disjoint Sets ADT Graph Algorithms Sorting Searching

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Ensure every student can become fluent in Python with this highly practical guide that will help them understand the theory and logic behind coding. Written for 14-16-year olds by a leading Python specialist and teacher, and aligned to curriculum requirements, this essential Student Book provides numerous practice questions and coding problems that can be completed as homework or during class - plus answers can be found online at

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