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Elements of programming interviews c review

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Hello guys, If you are preparing for Programming Job interviews and looking for some of the best books for programming questions, then you have come to the right place.In this article, I am going to share a couple of good books to prepare coding, software design, and data structure algorithm questions, which are essential for any coding interviews.Though a programming interview also explores other areas of software development, like, the programming language, you would be mainly used in your project, like, Python, JavaScript, C++, or Java.The database and SQL based questions, the operating systems, and UNIX related questions, some of the software design and object-oriented design pattern questions, and much more, but coding based questions form the core of programming interviews. This article solely contains books for coding interviews, but if you are interested in finding good books on other topics, like concurrent programming or Java and other topics, then just look at those links and some more I have shared at the end of this article.This is the second article in the series of must-read books for preparing programming job interviews. In the first article, I have shared books, especially for Java interviews, but after receiving lots of good feedback and request about general programming interview books, I decided to write this article. I have also not included 10, 15, or 20 books on this list as it would be challenging to consult or refer to too many books. Instead, I always like to have a core group of 3 to 4 best books on a topic; hence, I am only sharing 5 books on Programming/Coding interviews.1. Cracking the Coding InterviewThis is your general-purpose coding interview book. 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Skiena and also one of the famous algorithms design books too. The only problem is it's hard to read and follow. If you are like many programmers who find it hard to read books with a lot of theory, then I recommend starting with interview questions and refer to this book when encountering algorithmic concepts. This way, you won't be bored by just reading the theory, and you will also learn the key algorithms.Though, if you have forgotten fundamental data structure and algorithms which were taught to us in computer science classes, then I strongly suggest you first go to a revision course like Algorithms and Data Structures — Part 1 and 2 courses on Pluralsight to quickly get up-to-speed.Otherwise, you will have to do a lot of back-and-forths while solving problems from this book.This is one of the excellent books on Programming interviews by Adnan Aziz, Tsung-Hsien Lee, Amit Prakash, who have already authored a couple of books like Algorithm for Interviews, which is aimed to prepare programmers for most robust programming job interviews with the likes of Apple, Uber, Google, Microsoft, and Amazon.This book covers all the essential topics a programmer needs to go through to pass the coding interview like Data Structure, Algorithms, Dynamic Programming, Bit Manipulation, etcHer is the link to buy this book — Elements of Programming InterviewsIn short, this is one of the best books to prepare for onsite, face-to-face coding interviews, which might require you to code on the whiteboard. 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It explains in detail how to solve a problem with the pros and cons of different approaches and also covers essential topics for Programming job interviews, like puzzles, string, array, coding, algorithms, binary trees, networking, computer science, etc.Here is the link to buy this book —Programming Interviews ExposedAnd, if you ask me for an online course to complement this book, I would highly recommend Andrei Neagoie's Master the Coding Interview: Data Structures + Algorithms book on ZTM Academy, his own online course portal.If you are a constant learner like me then I suggest you go for the annual membership than buying a single course, you will not only save money but also it makes learning easy, as you don't need to buy courses every time you want to learn something new.5. Programming PearlsThis is one of the best books to prepare for coding interviews. The Programming Pearls (2nd Edition) by Jon Bentley focus problem solving, algorithm design, correctness, and performance. The book is old but still worth reading, and it will prepare you well for any type of programming interviews. Some of the questions discussed in this book are simply an excellent resource for programming interviews. Don't believe you can decide yourself: Find all sets of anagrams in the given dictionary. How to sort 10 million unique non-negative integers, all of which are less than 107 in 1.25M memory? The question doesn't end here; you have follow-ups like, What if we have only 1M (or less) memory available? What if our integers are not unique, but the number of occurrences of each value is limited?Here is the link to buy this book — Programming PearlsBy the way, good knowledge of computer fundamentals like Data Structure and Algorithms are required to answer this questions, If you need a refresher, I also suggest you join Data Structures and Algorithms: Deep Dive Using Java course on Udemy, one of the best course on algorithms.Let's see one more interesting questions form this book: You have a file with 4 billion 32-bit integers. Find an integer that is not in the file.With follow-ups like How would you do it if you have an ample amount of RAM? What about the case when you have only a few hundred bytes of RAM, but you are allowed to write temporary files? This book also has a sequel called More Programming Pearls: Confessions of a Coder, but that's not really about programming interviews or algorithm design, nevertheless a good read for any programmer.That's all in this list of top 5 books for Coding or Programming interviews. All the papers I have mentioned here are the best of the best, and you can further shortlist depending upon your goals and companies you are going to interviews.For example, if you are targeting Google, then Elements of Programming Interviews and Algorithmic design manual is a must-read, but for most of the programming job interviews, Cracking the Coding interview book will do the job as it covers the most popular questions. 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