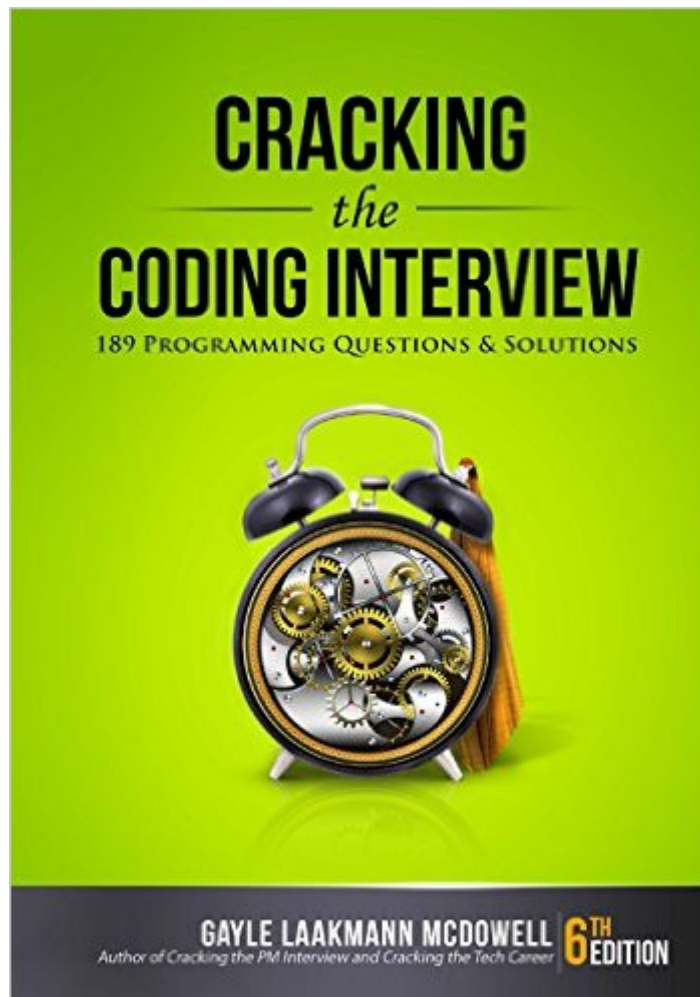# Cracking The Coding Interview: 189 Programming Questions And Solutions

Synopsis

I am not a recruiter. I am a software engineer. And as such, I know what it's like to be asked to whip up brilliant algorithms on the spot and then write flawless code on a whiteboard. I've been through this as a candidate and as an interviewer. Cracking the Coding Interview, 6th Edition is here to help you through this process, teaching you what you need to know and enabling you to perform at your very best. I've coached and interviewed hundreds of software engineers. The result is this book. Learn how to uncover the hints and hidden details in a question, discover how to break down a problem into manageable chunks, develop techniques to unstick yourself when stuck, learn (or re-learn) core computer science concepts, and practice on 189 interview questions and solutions. These interview questions are real; they are not pulled out of computer science textbooks. They reflect what's truly being asked at the top companies, so that you can be as prepared as possible. WHAT'S INSIDE? 189 programming interview questions, ranging from the basics to the trickiest algorithm problems. A walk-through of how to derive each solution, so that you can learn how to get there yourself. Hints on how to solve each of the 189 questions, just like what you would get in a real interview. Five proven strategies to tackle algorithm questions, so that you can solve questions you haven't seen. Extensive coverage of essential topics, such as big O time, data structures, and core algorithms. A behind the scenes look at how top companies like Google and Facebook hire developers. Techniques to prepare for and ace the soft side of the interview: behavioral questions. For interviewers and companies: details on what makes a good interview question and hiring process.

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Customer Reviews

Iâ ™ve been meaning to review this book for a while. Last year I got laid off from my startup and found myself feeling anxious as I havenâ ™t had to look for a job for several years. I bought this book along with two others, but this was the only one I really spent time on. The first third of this book provides specific information about companies along with example problems. The last two thirds are problem solutions with explanations. I found everything valuable. I didnâ ™t write out complete solutions for most of her example problems. If I thought it was obvious I skipped it, but whatever you do donâ ™t skip reading the solution. Itâ ™s here where you can read about ways of solving the problem that didnâ ™t occur to you. For example, if you want to know if two binary trees are identical you can verify this by comparing their preorder and inorder traversals. The only gaps were discrete math and heaps. Heaps appeared frequently in sample questions on Glassdoor. I pulled an old data structures book out to re-read about heaps, but I was never explicitly asked about them during my job search though I did mention them a couple times as possible ways to maintain a priority queue.Information about the companies was very relevant as I live in the Bay Area. I wish I had heeded her admonition about discrete math for Google because I was unprepared for these questions. I would have read the math if it was in the book, but since I havenâ ™t used that math ever in a job I skipped it. During the interview I was able to solve the math problems except I needed basic definitions and one or two hints. For it was good to know thereâ ™s a â œbar raiserâ • because it was obvious when I met the interviewer who wrote out a really hard problem right off the bat and wanted a linear time algorithm.

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