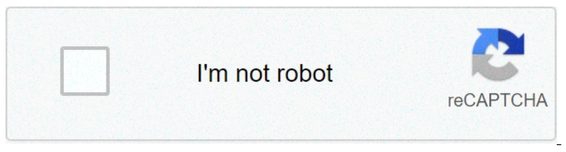

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It gives you answers to all the Python specific interview questions you might get asked and gives you tons and tons of tools that you can use to solve the interviews questions with less lines of code. e.g. I learned about the bisect module which was super useful for tons of problems requiring binary search. I also learned about namedtuple is so useful for quickly creating objects and not wasting time defining classes. I'd never used these modules (and so many more) programming professionally, but for interview questions, they are very prevalent. And not having them in your toolbox means you will dedicate more lines of code, and more time, to a problem that you would have otherwise already finished. LeetCode.com If you're not grinding LeetCode problems then you're and interviewer, and not an employee. LeetCode is a site with all the algo interview questions. In fact I've been asked multiple problems that were word for word pulled from LeetCode. LeetCode can seem very overwhelming, but don't worry, you can make huge gains in a couple of months, even if your fundamentals are trash. Remeber, its all about patterns (we'll get o that in a sec) The goal is Hard level problems in ~20 minutes. The pros do'em in ~15 mins. Easy problems should be sub 5 minutes. At the beginning though the easy problems will take you 1hr+ and that's all good. You don't know the patterns, you don't know the python modules that let you reduce the amount of code you need to write, and you don't know the optimal strategy to solve them. But you will quickly learn! How to Study Effectively These interview questions are 1024% about recognizing patterns. Basically you need to build a collection of code chunks and patterns in your head that you can pull from to solve a problem. If you have no fundamentals then crush the CLRS book. If you've already read it, or something similar then Go through this series. For each pattern, read the applicable chapter in CLRS so you grasp the fundamentals, and do every problem under each pattern category. If you ever find yourself using a datastructre and you're not sure about the run time of the data structure's operation or maybe you don't think you could code the data structure from scratch, then read the applicable chapter in CLRS. While doing LeetCode + CLRS, read a couple chapters of EPI. EPI is all about the Python language and how to solve these problems pythonically, taking advantage of all the built in libraries and modules. Being able to solve Hard level LeetCode problem with an avg time of 15 mins is going to be impossible, if you aren't effectively taking advantage of the stdlibs. I've seen candidates who've started implementing a heap for a simple warm up questions, instead of using the built in heapq module. Cracking The Coding Interview I own and have read this book too. I didn't like it tbh. And think the above 3 resources are all you need for the "competitive programming interviews". Note that to get a job at a FAANG company you'll also need System Design skills, which the above does not cover (though there is of course overlap). "A practical, fun approach to computer science fundamentals, as seen through the lens of common programming interview questions."Jeff Atwood / Co-founder, Stack Overflow and Discourse"This book prepares the reader for contemporary software interviews, andÂ also provides a window into how algorithmic techniques translate into theÂ workplace. It emphasizes problems that stem from real-world applicationsÂ and can be coded up in a reasonable time, and is a wonderful complement toÂ a traditional computer science algorithms and data structures course."Ashish Goel / Professor, Stanford University"A wonderful resource for anyone preparing for a modern softwareÂ engineering interview: work through the entire book, and you'll find theÂ actual interview a breeze. More generally, for algorithms enthusiasts, EPIÂ offers endless hours of entertainment while simultaneously learning neatÂ coding tricks."Vineet Gupta / Principal Engineer, Google Have you ever...Wanted to work at anÂ exciting futuristic company?Struggled with an interview problemÂ that could have been solved in 15 minutes?Wished you could studyÂ real-world computing problems?If so, you need to readÂ Elements of Programming InterviewsÂ (EPI). The core of EPI is a collection ofÂ 300 problemsÂ with detailed solutions, including overÂ 150 figuresÂ andÂ 300 tested programs. The problems are challenging, well-motivated, and accessible. They are representative of the questionsÂ asked at interviews at the most exciting companies.The book begins with aÂ summary of patternsÂ for data structure, algorithms, and problem solving that will help you solve the most challenging interview problems. This is followed by chapters on basic and advanced data structures, algorithm design, concurrency, system design, probability and discrete mathematics. Each chapter starts with a brief review of key concepts and results followed by a deep and wide set of questions.EPI includes with aÂ summary of the nontechnical aspectsÂ of interviewing, including common mistakes, strategies for a great interview, perspectives from across the table, negotiating the best offer, and much more. The inside storyAll three of us successfully made it through theÂ GoogleÂ interview process, and went on to work atÂ Google, where, among other things, we interviewed candidates for our teams.We have complementary backgrounds (large company, startup, academia) and have held multiple roles (tech lead, CTO, consultant, professor), that gives us unparalleled insight into the job market.In addition to Google, some of the other places we have worked at includeÂ Facebook,Â Uber,Â Microsoft, IBM,Â andÂ Qualcomm.About the authorsWe co-developed algorithms and systems that are used byÂ over one billion people everyday. We have extensive experience with interviewing candidates, making hiring decisions, and being interviewed.Adnan AzizÂ is a Research Scientist atÂ Facebook. Previously, he was a professor at the Department of Electrical and Computer Engineering atÂ The University of Texas at Austin, where he conducts research and teaches classes in applied algorithms. He received his PhD fromÂ The University of California at Berkeley; his undergraduate degree is from theÂ Indian Institute of Technology at Kanpur.Tsung-Hsien LeeÂ is a Staff Software Engineer atÂ Toyota Research Institute. Previously, he worked atÂ Facebook,Â Google,Â andÂ Uber.Â He received both his MS and undergraduate degrees fromÂ National Tsing Hua University. He has a passion for designing and implementing algorithms. He likes to apply algorithms on every aspect of his life.He takes special pride in helping to organizeÂ Google Code Jam 2014Â andÂ Google Code Jam 2015.Amit PrakashÂ is a co-founder and CTO ofÂ ThoughtSpot, a Silicon Valley startup. Previously, he was a Member of the Technical Staff atÂ Google, where he worked primarily on machine learning problems that arise in the context of online advertising. Before that he worked atÂ MicrosoftÂ in the web search team. He received his PhD fromÂ The University of Texas at Austin; his undergraduate degree is from theÂ Indian Institute of Technology at Kanpur.Â Showing 1-30 Start your review of Elements of Programming Interviews in Java: The Insiders' Guide Feb 15, 2017 Alex Salo rated it it was amazing · review of another edition Excellent for prep into a big tech company like Google/Facebook. Naturally goes along with Cracking the Code Interview. Comparing the two, "Elements" has much broader collection of questions, which is great, but the explanations sometimes are a bit dry and dull -- you can tell English is not the author's first language.Overall though, many hard questions with the correct answers which makes it very useful. Excellent for prep into a big tech company like Google/Facebook. Naturally goes along with Cracking the Code Interview. 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