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this book is about coding interview questions from

software and internet companies it covers five key factors which determine performance of candidates 1 the basics of programming languages data structures and algorithms 2 approaches to writing code with high quality 3 tips to solve difficult problems 4 methods to optimize code 5 soft skills required in interviews the basics of languages algorithms and data structures are discussed as well as questions that explore how to write robust solutions after breaking down problems into manageable pieces it also includes examples to focus on modeling and creative problem solving interview questions from the most popular companies in the it industry are taken as examples to illustrate the five factors above besides solutions it contains detailed analysis how interviewers evaluate solutions as well as why they like or dislike them the author makes clever use of the fact that interviewees will have limited time to program meaningful

solutions which in turn limits the options an interviewer has so the author covers those bases readers will improve their interview performance after reading this book it will be beneficial for them even after they get offers because its topics such as approaches to analyzing difficult problems writing robust code and optimizing are all essential for high performing coders if you are a skilled java programmer but are concerned about the java coding interview process this real world guide can help you land your next position java is a popular and powerful language that is a virtual requirement for businesses making use of it in their daily operations for java programmers this reality offers job security and a wealth of employment opportunities but that perfect java coding job won't be available if you can't ace the interview if you are a java programmer concerned about interviewing java programming interviews exposed is a great resource to prepare for your next opportunity author noel

markham is both an experienced java developer and interviewer and has loaded his book with real examples from interviews he has conducted. Review over 150 real world java interview questions you are likely to encounter. Prepare for personality based interviews as well as highly technical interviews. Explore related topics such as middleware frameworks and server technologies. Make use of chapters individually for topic specific help. Use the appendix for tips on scala and groovy. Two other languages that run on jvms: veterans of the IT employment space know that interviewing for a java programming position isn't as simple as sitting down and answering questions. The technical coding portion of the interview can be akin to a difficult puzzle or an interrogation with java programming interviews. Exposed skilled java coders can prepare themselves for this daunting process and better arm themselves with the knowledge and interviewing

skills necessary to succeed. I wanted to compute 80th term of the fibonacci series. I wrote the rampant recursive function: `int fib(int n) { return 1 + n - 1; }` fib(n-1) + fib(n-2) and waited for the result. I wait and wait and wait with an 8gb ram and an intel i5 cpu. Why is it taking so long? I terminated the process and tried computing the 40th term. It took about a second. I put a check and was shocked to find that the above recursive function was called 204 668 309 times while computing the 40th term. More than 200 million times is it reporting function calls or scam of some government? The dynamic programming solution computes 100th fibonacci term in less than fraction of a second with a single function call taking linear time and constant extra memory. A recursive solution usually neither pass all test cases in a coding competition nor does it impress the interviewer in an interview of company like google, microsoft etc. The most difficult questions asked in competitions and interviews

are from dynamic programming this book takes dynamic programming head on it first explain the concepts with simple examples and then deep dives into complex dp problems testing is a cornerstone of xp as tests are written for every piece of code before it is programmed this workbook helps testers learn xp and xp devotees learn testing this new book defines how an xp tester can optimally contribute to a project including what testers should do when they should do it and how they should do it now in the 5th edition the book gives you the interview preparation you need to get the top software developer jobs this is a deeply technical book and focuses on the software engineering skills to ace your interview the book includes 150 programming interview questions and answers as well as other advice get more out of your legacy systems more performance functionality reliability and manageability is your code easy to change can you get nearly instantaneous

feedback when you do change it do you understand it if the answer to any of these questions is no you have legacy code and it is draining time and money away from your development efforts in this book michael feathers offers start to finish strategies for working more effectively with large untested legacy code bases this book draws on material michael created for his renowned object mentor seminars techniques michael has used in mentoring to help hundreds of developers technical managers and testers bring their legacy systems under control the topics covered include understanding the mechanics of software change adding features fixing bugs improving design optimizing performance getting legacy code into a test harness writing tests that protect you against introducing new problems techniques that can be used with any language or platform with examples in java c c and c accurately identifying where code changes need to be made coping with legacy

systems that aren't object oriented handling applications that don't seem to have any structure this book also includes a catalog of twenty four dependency breaking techniques that help you work with program elements in isolation and make safer changes automated testing is a cornerstone of agile development an effective testing strategy will deliver new functionality more aggressively accelerate user feedback and improve quality however for many developers creating effective automated tests is a unique and unfamiliar challenge xunit test patterns is the definitive guide to writing automated tests using xunit the most popular unit testing framework in use today agile coach and test automation expert gerard meszaros describes 68 proven patterns for making tests easier to write understand and maintain he then shows you how to make them more robust and repeatable and far more cost effective loaded with information this book feels like

three books in one the first part is a detailed tutorial on test automation that covers everything from test strategy to in depth test coding the second part a catalog of 18 frequently encountered test smells provides trouble shooting guidelines to help you determine the root cause of problems and the most applicable patterns the third part contains detailed descriptions of each pattern including refactoring instructions illustrated by extensive code samples in multiple programming languages coding interview questions is a book that presents interview questions in simple and straightforward manner with a clear cut explanation this book will provide an introduction to the basics it comes handy as an interview and exam guide for computer scientists this book is about coding interview questions from software and internet companies it covers five key factors which determine performance of candidates 1 the basics of

programming languages data structures and algorithms 2 approaches to writing code with high quality 3 tips to solve difficult problems 4 methods to optimize code 5 soft skills required in interviews the basics of languages algorithms and data structures are discussed as well as questions that explore how to write robust solutions after breaking down problems into manageable pieces it also includes examples to focus on modeling and creative problem solving interview questions from the most popular companies in the it industry are taken as examples to illustrate the five factors above besides solutions it contains detailed analysis how interviewers evaluate solutions as well as why they like or dislike them the author makes clever use of the fact that interviewees will have limited time to program meaningful solutions which in turn limits the options an interviewer has so the author covers those bases readers will improve their interview performance

after reading this book it will be beneficial for them even after they get offers because its topics such as approaches to analyzing difficult problems writing robust code and optimizing are all essential for high performing coders searching sorting algorithms form the back bone of coding acumen of developers this book comprehensively covers in depth tutorial analysis of all major algorithms and techniques used to search and sort across data structures all major variations of each algorithm e g ternary jump exponential interpolation are variations of binary search 110 real coding interview questions as solved examples and unsolved problems case studies of implementation of searching and sorting in language libraries introduction to how questions are asked and expected to answer on online competitive coding and hiring platforms like hackerrank com codechef com etc introduction to data structures coding interview questions is a book that presents interview



questions in simple and straightforward manner with a clear cut explanation this book will provide an introduction to the basics it comes handy as an interview and exam guide for computer scientists programming puzzles for interviews campus preparation degree masters course preparation big job hunters apple microsoft google amazon yahoo flip kart adobe ibm labs citrix mentor graphics netapp oracle webaroo de shaw success factors face book mcafee and many more reference manual for working people topics covered programming basicsintroductionrecursion and backtrackinglinked lists stacks queues trees priority queue and heapsgraph algorithmssortingsearching selection algorithms medians symbol tableshashing string algorithms algorithms design techniques greedy algorithms divide and conquer algorithms dynamic programming complexity classes design interview questions operating system concepts computer

networking basics database concepts brain teasers nontechnical help miscellaneous concepts note if you already have data structures and algorithms made easy no need to buy this mometrix test preparation s certified coding specialist exam secrets study guide is the ideal prep solution for anyone who wants to pass their certified coding specialist ccs exam the exam is extremely challenging and thorough test preparation is essential for success our study guide includes practice test questions with detailed answer explanations tips and strategies to help you get your best test performance a complete review of all ccs test sections coding knowledge and skills coding documentation provider queries regulatory compliance mometrix test preparation is not affiliated with or endorsed by any official testing organization all organizational and test names are trademarks of their respective owners the mometrix guide is filled with the critical information you will

need in order to do well on your ccs exam the concepts procedures principles and vocabulary that the american health information management association ahima expects you to have mastered before sitting for your exam the coding knowledge and skills section covers documentation in the health record primary diagnosis and procedure coding conventions and regulatory guidance cpt hcpcs modifiers sequencing diagnoses and procedures present on admission poa guidelines coding edits reimbursement classifications abstracting pertinent data conditions and comorbidities the coding documentation section covers assigning diagnosis and procedure codes health record discrepancies the provider queries section covers compliance query opportunities the regulatory compliance section covers integrity of health records payer specific guidelines patient safety indicators psis and hospital acquired conditions hacs hipaa guidelines ahima s standards of

ethical coding uniform hospital discharge data set uhdds and much more our guide is full of specific and detailed information that will be key to passing your exam concepts and principles aren t simply named or described in passing but are explained in detail the mometrix ccs study guide is laid out in a logical and organized fashion so that one section naturally flows from the one preceding it because it s written with an eye for both technical accuracy and accessibility you will not have to worry about getting lost in dense academic language any test prep guide is only as good as its practice questions and answer explanations and that s another area where our guide stands out the mometrix test prep team has provided plenty of ccs practice test questions to prepare you for what to expect on the actual exam each answer is explained in depth in order to make the principles and reasoning behind it crystal clear we ve helped hundreds of thousands of people pass standardized tests and achieve

their education and career goals we've done this by setting high standards for Mometrix test preparation guides and our certified coding specialist exam secrets study guide is no exception it's an excellent investment in your future get the CCS review you need to be successful on your exam ace technical interviews with smart preparation programming interviews exposed is the programmer's ideal first choice for technical interview preparation updated to reflect changing techniques and trends this new fourth edition provides insider guidance on the unique interview process that today's programmers face online coding contests are being used to screen candidate pools of thousands take home projects have become commonplace and employers are even evaluating a candidate's public code repositories at GitHub and with competition becoming increasingly fierce programmers need to shape themselves into the ideal candidate well in advance of

the interview this book doesn't just give you a collection of questions and answers it walks you through the process of coming up with the solution so you learn the skills and techniques to shine on whatever problems you're given this edition combines a thoroughly revised basis in classic questions involving fundamental data structures and algorithms with problems and step-by-step procedures for new topics including probability data science statistics and machine learning which will help you fully prepare for whatever comes your way learn what the interviewer needs to hear to move you forward in the process adopt an effective approach to phone screens with non-technical recruiters examine common interview problems and tests with expert explanations be ready to demonstrate your skills verbally in contests on GitHub and more technical jobs require the skillset but you won't get hired unless you are able to effectively and efficiently

demonstrate that skillset under pressure in competition with hundreds of others with the same background programming interviews exposed teaches you the interview skills you need to stand out as the best applicant to help you get the job you want this book also available online at [designgurus.org](http://designgurus.org) by design gurus has helped 60k readers to crack their system design interview sdi system design questions have become a standard part of the software engineering interview process these interviews determine your ability to work with complex systems and the position and salary you will be offered by the interviewing company unfortunately sdi is difficult for most engineers partly because they lack experience developing large scale systems and partly because sdis are unstructured in nature even engineers who ve some experience building such systems aren t comfortable with these interviews mainly due to the open ended nature of design

problems that don t have a standard answer this book is a comprehensive guide to master sdis it was created by hiring managers who have worked for google facebook microsoft and amazon the book contains a carefully chosen set of questions that have been repeatedly asked at top companies what s inside this book is divided into two parts the first part includes a step by step guide on how to answer a system design question in an interview followed by famous system design case studies the second part of the book includes a glossary of system design concepts table of contents first part system design interviews a step by step guide designing a url shortening service like tinyurl designing pastebin designing instagram designing dropbox designing facebook messenger designing twitter designing youtube or netflix designing typeahead suggestion designing an api rate limiter designing twitter search designing a crawler designing facebook s newsfeed designing

yelp or nearby friends  
designing uber backend  
designing ticketmaster second  
part key characteristics of  
distributed systems load  
balancing caching data  
partitioning indexes proxies  
redundancy and replication sql  
vs nosql cap theorem paxos  
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long polling vs websockets vs  
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professionals to practice the  
reader is encouraged to solve  
the problem himself herself  
before checking the answers  
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quick solutions to frequently  
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translating business problems  
into executable programs and  
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python is the most popular  
programming language and  
hence there is a huge demand  
for python programmers even  
if you have learnt python or  
have done projects on ai you  
cannot enter the top companies  
unless you have cleared the

algorithms and data structure coding test this book presents 75 most frequently asked coding questions by top companies of the world it not only focuses on the solution strategy but also provides you with the working code this book will equip you with the skills required for developing and analyzing algorithms for various situations this book teaches you how to measure time complexity it then provides solutions to questions on the linked list stack hash table and math then you can review questions and solutions based on graph theory and application techniques towards the end you will come across coding questions on advanced topics such as backtracking greedy divide and conquer and dynamic programming after reading this book you will successfully pass the python interview with high confidence and passion for exploring python in future what you will learn design an efficient algorithm to solve the problem learn to use python tricks to make your program

competitive learn to understand and measure time and space complexity get solutions to questions based on searching sorting graphs dfs bfs backtracking dynamic programming who this book is for this book will help professionals and beginners clear the data structures and algorithms coding test basic knowledge of python and data structures is a must table of contents 1 lists binary search and strings 2 linked lists and stacks 3 hash table and maths 4 trees and graphs 5 depth first search 6 breadth first search 7 backtracking 8 greedy and divide and conquer algorithms 9 dynamic programming i wanted to compute 80th term of the fibonacci series i wrote the rampant recursive function `int fib(int n) { return 1 + n * 2 + n * 1 + fib(n - 1) + fib(n - 2); }` and waited for the result i wait and wait and wait with an 8gb ram and an intel i5 cpu why is it taking so long i terminated the process and tried computing the 40th term it took about a second i put a check and was shocked to find that the above recursive

function was called 204 668 309 times while computing the 40th term more than 200 million times is it reporting function calls or scam of some government the dynamic programming solution computes 100th fibonacci term in less than fraction of a second with a single function call taking linear time and constant extra memory a recursive solution usually neither pass all test cases in a coding competition nor does it impress the interviewer in an interview of company like google microsoft etc the most difficult questions asked in competitions and interviews are from dynamic programming this book takes dynamic programming head on it first explain the concepts with simple examples and then deep dives into complex dp problems peeling data structures and algorithms programming puzzles for interviews campus preparation degree masters course preparation instructor s gate preparation big job hunters microsoft google amazon yahoo

flip kart adobe ibm labs citrix mentor graphics netapp oracle webaroo de shaw success factors face book mcafee and many more reference manual for working people individual reusable student test booklet to replace books lost from the complete kit of the gallistel ellis test the core of epi is a collection of over 300 problems with detailed solutions including 100 figures 250 tested programs and 150 variants the problems are representative of questions asked at the leading software companies the book begins with a summary of the nontechnical aspects of interviewing such as common mistakes strategies for a great interview perspectives from the other side of the table tips on negotiating the best offer and a guide to the best ways to use epi the technical core of epi is a sequence of chapters on basic and advanced data structures searching sorting broad algorithmic principles concurrency and system design each chapter consists of a brief review followed by a broad and

thought provoking series of problems we include a summary of data structure algorithm and problem solving patterns c programming test your skills is specifically designed to be used as the supplementary resource for learning c programming it is ideal for self practice or test preparation and hones one s problem solving abilities through varieties of exercises learn the basics of test driven development tdd using ruby you will carry out problem domain analysis solution domain analysis designing test cases and writing tests first these fundamental concepts will give you a solid tdd foundation to build upon test driven development in ruby is written by a developer for developers the concepts are first explained then a coding demo illustrates how to apply the theory in practice at the end of each chapter an exercise is given to reinforce the material complete with working files and code samples you ll be able to work alongside the author a trainer by

following the material in this book what you will learn carry out problem domain analysis solution domain analysis designing test cases and writing tests first use assertions discover the structure of a test and the tdd cycle gain an understanding of minimal implementation starter test story test and next test handle refactoring using ruby hide implementation details test precisely and concretely make your code robust who this book is for experienced ruby programmers or web developers with some prior experience with ruby invoke tdd principles for end to end application development with java about this book explore the most popular tdd tools and frameworks and become more proficient in building applications create applications with better code design fewer bugs and higher test coverage enabling you to get them to market quickly implement test driven programming methods into your development workflows who this book is for if you re an experienced java



developer and want to implement more effective methods of programming systems and applications then this book is for you what you will learn explore the tools and frameworks required for effective tdd development perform the red green refactor process efficiently the pillar around which all other tdd procedures are based master effective unit testing in isolation from the rest of your code design simple and easily maintainable codes by implementing different techniques use mocking frameworks and techniques to easily write and quickly execute tests develop an application to implement behaviour driven development in conjunction with unit testing enable and disable features using feature toggles in detail test driven development tdd is a development approach that relies on a test first procedure that emphasises writing a test before writing the necessary code and then refactoring the code to optimize it the value of performing tdd with java one of

the most established programming languages is to improve the productivity of programmers the maintainability and performance of code and develop a deeper understanding of the language and how to employ it effectively starting with the basics of tdd and reasons why its adoption is beneficial this book will take you from the first steps of tdd with java until you are confident enough to embrace the practice in your day to day routine you ll be guided through setting up tools frameworks and the environment you need and will dive right in to hands on exercises with the goal of mastering one practice tool or framework at a time you ll learn about the red green refactor procedure how to write unit tests and how to use them as executable documentation with this book you ll also discover how to design simple and easily maintainable code work with mocks utilise behaviour driven development refactor old

legacy code and release a half finished feature to production with feature toggles you will finish this book with a deep understanding of the test driven development methodology and the confidence to apply it to application programming with java style and approach an easy to follow hands on guide to building applications through effective coding practices this book covers practical examples by introducing different problems each one designed as a learning exercise to help you understand each aspect of tdd this book is for revision of the questions related to data structures and algorithms which mostly get asked in a coding interview you need to be familiar with the fundamentals of computing and the basics of data structures and algorithms to read this book 72 coding questions of various topics related to data structures and algorithms if you understand the solutions to all the questions inside this book then you are most

probably ready to give any coding interview best of luck we present 60 interesting c programming interview questions and answers for readers to practice and crack any c interview the reader is encouraged to try the programming questions himself herself before checking the answers cracking the coding interview 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 must have for google aspirants this book is written for helping people prepare for google coding interview it contains top 20 programming problems frequently asked

google with detailed worked out solutions both in pseudo code and c and c 11 matching nuts and bolts  
optimally searching two dimensional sorted array lowest common ancestor lca  
problem max sub array  
problem compute next higher number 2d binary search string edit distance searching in two dimensional sequence select kth smallest element searching in possibly empty two dimensional sequence the celebrity problem switch and bulb problem interpolation search the majority problem the plateau problem segment problem efficient permutation the non crooks problem median search problem missing integer problem dear readers the book enumerates the concepts related to the c programming language the book elaborates on the basics of c programming through some puzzles which are widely discussed on different programming platforms and the fundamentals of writing c codes this book will help novice

programmers to code elementary level codes properly it covers almost all topics with numerous illustrative examples and well graded problems these 1000 c programming interview questions have been designed specially to get you acquainted with the nature of questions you may encounter during your interview for the subject of c programming good interviewers hardly plan to ask any particular question during your interview normally questions start with some basic concept of the subject and later they continue based on further discussion and what you answer elementary programming concepts like arrays loops assignment statements and operators functions file processing data structures pointers preprocessors structures unions and file operations are thoroughly discussed with a suitable number of examples solved questions have been provided to help programmers develop expertise in writing c codes flawlessly error

correction exercises code modification exercises and several such skill testing exercises have been provided the industry standard whiteboard interview can be daunting for developers let's face it it combines the worst aspects of a typical interview on the spot public speaking a quiz show and a dinner party full of strangers judging you all at once brilliant developers can let their nerves get the best of them and completely bomb a whiteboard interview while inexperienced developers who excel in soft skills can breeze through them in surviving the whiteboard interview author william gant uses his real world knowledge and expertise to guide you through the psychological roadblocks of a coding test while also providing you with a sample coding challenge with enough preparation information and assured confidence you can survive a whiteboard interview at any organization in addition to the benefits listed above gant helps you explore how you can create a good soft skills

impression that will last beyond the whiteboard test by showing your work ethic positive attitude and ability to take and implement criticism effectively these assets will unequivocally serve other parts of your life outside of an interview context as well while gant does not promise that you will ever truly enjoy interviewing he does promise to arm you with the proper preparation techniques and knowledge needed to tame the common fears and dread that come along with it maximize your career potential and get inspired with surviving the whiteboard interview the steps to your dream role just might be closer than you think what you will learn practice both hard and soft skills required to succeed at a whiteboard interview covering coding tests as well as psychological preparation learn how to make other aspects of your interview stronger so you can create a great impression master solving common whiteboard problems in different programming languages who this book is for

this book is primarily for aspiring software developers who are looking for a job in the field however it will also be helpful for more seasoned developers who find interviewing painful and want to improve their skills increase your software development income by using algorithms and data structures to level your problem solving skills the more prepared and confident you are the better the chances of negotiating your next salary why have a guide for interviews jobs in the tech industry are expected to grow exponentially in the next few years if you plan to enter the job market soon you must know that companies will evaluate your problem solving skills based on data structures and algorithms and you will need to face a complex problem on a blackboard that's the reason why algorithms and data structures are vital you need this book because it includes the most common questions you can find in a real interview by the end of reading this book you'll be able to understand the

basics of common data structures and algorithms and apply them to real questions apply clean code practices to develop a usable algorithm understand the importance of text manipulation methods lists recursion class design queues stacks hashing trees graphs and many more develop a complete algorithm using the tdd approach e.g. graph based transport system tic tac toe game react better than other candidates when faced with a new problem e.g. design an algorithm to solve a problem you haven't seen before understand and practice 40 code challenges explained step by step including its pictorial representation table of contents inner workings of data structures big o notation arrays and strings linked lists math and logic puzzles recursion sorting and searching stacks and queues hash table trees and graphs challenge codes about me i am a software engineer who faced real interviews as a candidate for startups and big companies throughout the years i have

sourced factual questions that have been tried tested and commented on step by step and are now part of this book i hope you find them practical and useful in your career search i usually write tech articles at medium com mkgv89 and codersite dev let s connect the pressure is on during the interview process but with the right preparation you can walk away with your dream job this classic book uncovers what interviews are really like at america s top software and computer companies and provides you with the tools to succeed in any situation the authors take you step by step through new problems and complex brainteasers they were asked during recent technical interviews 50 interview scenarios are presented along with in depth analysis of the possible solutions the problem solving process is clearly illustrated so you ll be able to easily apply what you ve learned during crunch time you ll also find expert tips on what questions to ask how to

approach a problem and how to recover if you become stuck all of this will help you ace the interview and get the job you want what you will learn from this book tips for effectively completing the job application ways to prepare for the entire programming interview process how to find the kind of programming job that fits you best strategies for choosing a solution and what your approach says about you how to improve your interviewing skills so that you can respond to any question or situation techniques for solving knowledge based problems logic puzzles and programming problems who this book is for this book is for programmers and developers applying for jobs in the software industry or in it departments of major corporations wrox beginning guides are crafted to make learning programming languages and technologies easier than you think providing a structured tutorial format that will guide you through all the techniques involved our certified coding associate study

guide contains easy to read essential summaries that highlight the key areas of the certified coding associate test mometrix s certified coding associate test study guide reviews the most important components of the certified coding associate exam your code is a testament to your skills as a developer no matter what language you use code should be clean elegant and uncluttered by using test driven development tdd you ll write code that s easy to understand retains its elegance and works for months even years to come with this indispensable guide you ll learn how to use tdd with three different languages go javascript and python author saleem siddiqui shows you how to tackle domain complexity using a unit test driven approach tdd partitions requirements into small implementable features enabling you to solve problems irrespective of the languages and frameworks you use with learning test driven development at your side you ll

learn how to incorporate tdd into your regular coding practice this book helps you use tdd s divide and conquer approach to tame domain complexity understand how tdd works across languages testing frameworks and domain concepts learn how tdd enables continuous integration support refactoring and redesign with tdd learn how to write a simple and effective unit test harness in javascript set up a continuous integration environment with the unit tests produced during tdd write clean uncluttered code using tdd in go javascript and python available at 8 for a limited time only usual price 20 new book by best selling author mr kotiyana be prepared for your next job interview with this tried and true advice cracking the coding interview 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 learn how to cracking the coding interview what s

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amazon google or apple  
interview 5 skills self taught  
programmers commonly lack  
important data structure and  
algorithms to prepare for an  
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great programmer 4 secrets of  
great programmers difference  
between a programmer a good  
programmer and a great  
programmer 2 resume advice  
resume mistakes to avoid  
resume presentation 3 20 most  
asked programming questions  
and solutions 4 4 reasons why  
your program crashes 5 5  
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