

# Data Structures & Algorithms

## Cheat Sheet for Tech Interviews

### Arrays

Collection of elements stored in-contiguous memory

- Two pointers
- Sliding window
- Sorting



### Linked Lists

A sequence of elements where each element points to the next

- Reverse a linked list
- Detect a cycle
- Merge lists



### Stacks & Queues

Algorithms are LIFO and FIFO

- Evaluate RPN
- Parentheses validation
- Implement cache



### Trees

Hierarchical structures with parent/child relationships

- Binary tree
- Binary search tree
- Trie



Common, tree algorithms

- Tree traversal
- Lowest common ancestor
- Diameter of a tree

### Searching

- Binary search
- Depth/Breadth-first search
- A\* w/ heuristics

### Sorting

- Quick sort
- Merge sort
- Heap sort
- Insertion sort
- Topological sort

# Algorithms For Interviews

**M Woodhall**



## **Algorithms For Interviews:**

*Algorithms and Interviews* Cody Jackson, 2021-04-23 Learn how to prepare for technical programming interviews This book focuses on job interviews for software engineers both from the traditional interview perspective as well as the technical programming side While useful review for Computer Science graduates it is also helpful for self taught programmers bootcamp graduates and anyone interested in job hunting and interview techniques as well as computer algorithm implementation Interview related topics include Interview preparation Interview process Common interview questions both traditional and technical Resume preparation Programming topics include Data structures Problem solving paradigms Problem modeling Big O calculations Complexity analysis Object Oriented Programming review Algorithm topics include Iteration Recursion Divide and conquer Algorithm Analysis Linear data structures Linked lists Stacks vs queues Hash tables Graphs and trees Heaps Priority queues Linear searching Advanced graph algorithms Dynamic programming Greedy algorithms Sorting and selection algorithms Two's complement Bit manipulation Math topics include Number theory Probability Linear algebra Geom

**Algorithms Interview Questions You'll Most Likely Be Asked** Vibrant Publishers, 2011-10-31 Algorithms Interview Questions You'll Most Likely Be Asked is a perfect companion to stand ahead above the rest in today's competitive job market Rather than going through comprehensive textbook sized reference guides this book includes only the information required immediately for job search to build an IT career This book puts the interviewee in the driver's seat and helps them steer their way to impress the interviewer Includes a 200 Algorithms Interview Questions Answers and Proven Strategies for getting hired as an IT professional b Dozens of examples to respond to interview questions c 51 HR Questions with Answers and Proven strategies to give specific impressive answers that help nail the interviews d 2 Aptitude Tests download available on [www.vibrantpublishers.com](http://www.vibrantpublishers.com)

**Machine Learning Interviews** Susan Shu Chang, 2023-11-29 As tech products become more prevalent today the demand for machine learning professionals continues to grow But the responsibilities and skill sets required of ML professionals still vary drastically from company to company making the interview process difficult to predict In this guide data science leader Susan Shu Chang shows you how to tackle the ML hiring process Having served as principal data scientist in several companies Chang has considerable experience as both ML interviewer and interviewee She'll take you through the highly selective recruitment process by sharing hard won lessons she learned along the way You'll quickly understand how to successfully navigate your way through typical ML interviews This guide shows you how to Explore various machine learning roles including ML engineer applied scientist data scientist and other positions Assess your interests and skills before deciding which ML role's to pursue Evaluate your current skills and close any gaps that may prevent you from succeeding in the interview process Acquire the skill set necessary for each machine learning role Ace ML interview topics including coding assessments statistics and machine learning theory and behavioral questions Prepare for interviews in statistics and machine learning theory by

studying common interview questions      Algorithms for Interviews Amit Prakash,Adnan Aziz,2010-08-24 Algorithms For Interviews AFI aims to help engineers interviewing for software development positions as well as their interviewers AFI consists of 174 solved algorithm design problems It covers core material such as searching and sorting general design principles such as graph modeling and dynamic programming advanced topics such as strings parallelism and intractability It also covers system design problem solving and interviewing techniques AFI s authors are practicing algorithmists with extensive academic and industrial experience They have collectively published over 100 articles on applied algorithms applied their skills at Google Microsoft IBM Qualcomm and a number of smaller software startups and conducted many job interviews for various computer science jobs      *Data Structures & Algorithms Interview Questions You'll Most Likely Be Asked* Vibrant Publishers,2016-12-14 Features 200 Data Structures 77 HR Interview Questions Real life scenario based questions Strategies to respond to interview questions 2 Aptitude Tests The book is a perfect companion to stand ahead above the rest in todays competitive job market Rather than going through comprehensive textbook sized reference guides this book includes only the information required immediately for job search to build an IT career This book puts the interviewee in the driver s seat and helps them steer their way to impress the interviewer      *Mastering Data Structures & Algorithms in Java: Your Complete Guide to Technical Interview Success* Sivavishnu R,2025-10-26 Are you ready to stop struggling with coding interviews and start dominating them The technical interview process demands a deep practical mastery of Data Structures and Algorithms DSA This comprehensive guide Mastering Data Structures and Algorithms in Java gives you the clear efficient and battle tested framework you need to ace your next technical interview at FAANG top tech companies or any software role What Makes This Book Essential Written specifically for the Java developer this book is more than a reference it s a hands on workbook focused on practical implementation and interview problem solving Java Centric All concepts and code snippets are presented in Java allowing you to seamlessly transition from theory to real world application Complete DSA Coverage Dive deep into foundational structures like Arrays Linked Lists Stacks and Queues and master advanced topics like Trees BST AVL Graphs Hashing and Dynamic Programming Complexity Made Simple A dedicated section on Big O Notation ensures you understand how to analyze and optimize your solutions for peak performance The Problem Solving Blueprint Learn essential algorithmic techniques including Recursion Backtracking Divide and Conquer Greedy Algorithms and how to identify when to use each Interview Ready Structure Chapters are designed to mirror the topics most frequently tested in real coding interviews Inside You Will Learn To Implement every major data structure from scratch in clear idiomatic Java code Analyze your algorithms to guarantee efficiency using the rigorous principles of complexity analysis Tackle over 100 common interview problem patterns including two pointers sliding window topological sort and more Optimize your initial solution to meet the time and space complexity requirements of demanding technical screens Communicate your thought process effectively turning a confusing question into a clean working and well

explained solution Stop memorizing answers Start mastering the techniques Whether you are a college student preparing for your first internship or an experienced developer ready to take the next leap in your career this book is your ultimate resource Click Buy Now and transform your Data Structures and Algorithms knowledge into technical interview success

**Coding Interviews** Harry He,2013-01-31 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 [Crushing the Technical Interview: Data Structures and Algorithms \(Python Edition\)](#) Keith Henning,2025-04-03 Learn the process of interviewing for a software development role how to prepare and all the information you will need to make it through the data structures and algorithms interview This book covers what to expect in each stage of the interview process how to describe the complexity of an algorithm using Big O notation the basic software theories you will need to succeed and how to answer behavioral questions meaningfully Then you will learn the most important data structures and the minimum number of targeted algorithms need in order to crush your coding interview There are 75 unique coding problems for you to practice on along with the solutions Once you are done you should be able to map the patterns you learn onto any problem and solve them with ease This book is available in various editions based on the programming language of your choice This is the Python Edition [Programming Interviews Exposed](#) John Mongan,Noah Suojanen Kindler,Eric Giguère,2018-03-28 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.

**Searching & Sorting for Coding Interviews** Meenakshi, Kamal Rawat, 2018. Including numerous coding interview questions as well as case studies, this book provides an in-depth tutorial and analysis of all major algorithms and techniques used to search and sort across data structures.

**Top Java Challenges: Cracking the Coding Interview** Moises Gamio, 2020-06. If you want to join an ever-changing field full of discovery and potential, one where you'll never get bored and have a chance to make an impact, then your answer may be yes. Tech will put you right where the growth and disruption are happening. It will take hard work, but you will thrive if you are willing to adapt and learn. 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.

Why are algorithms used in 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. I usually write Tech articles at <https://codersite.dev> and <https://medium.com/mkgv89>.

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.

*Mathematical Algorithms for the Day Before Your Coding Interview* Ue Kiao, Aditya

Chatterjee,2020-05-31 Mathematical Algorithms are fundamentally important as several real life problems can be modeled as a Mathematical problem Solving such problems require mathematical insights These problems are a fundamental part of Interviews as it illustrates the thinking process of the candidate clearly By going through the problems in this book you will be well prepared to tackle any Mathematical problem Following are some of the problems we have explored which involve ideas to solve a wider range of problems Smallest number with multiples This is a unique problem where we learn key insights regarding Prime factorization role of primes in multiples and much more We improve the time complexity of this problem starting from  $O(N^3 \log N)$  to  $O(N \log N \log N)$  to  $O(N \log \log N)$  Largest palindrome In this problem we have reduced 810000 comparisons to 362 comparisons based on three deep insights This is a dramatic improvement and demonstrates that even if time complexity cannot be improved the performance can be improved significantly GCD of sub parts This problem brings up key insights involving GCD a common and important topic and in the process we have explored several standard algorithms like Euclidean's GCD Algorithm in the path of developing our custom algorithm for the given problem Next Permutation This problem demonstrates a significant improvement from  $O(N \times N \times \log N)$  time to  $O(N)$  time complexity Moreover it illustrates that improving time complexity does not necessarily mean increasing space complexity as it reduces space complexity from  $O(N \times N)$  to  $O(1)$  This brings in idea of Greedy Algorithms to Mathematical Algorithm and in the process we have explored several standard algorithms like Heap's Algorithm With these problems and the thought process to solve them you will be fully prepared This book has been carefully prepared and reviewed by Top programmers and Algorithmic researchers and members of OpenGenus We would like to thank Aditya Chatterjee and Ue Kiao for their expertise in this domain and reviews from professors at The University of Tokyo and Tokyo Institute of Technology Read this book now and ace your upcoming coding interview This is a must read for everyone preparing for Coding Interviews at top companies

Books in this series Day before coding Interview Problems for the day before your coding interview Greedy Algorithms for the day before your Coding Interview Dynamic Programming for the day before your coding interview String Algorithms for the day before your Coding Interview Mathematical Algorithms for the day before your Coding Interview *Elements of Programming Interviews* Adnan Aziz, Tsung-Hsien Lee, Amit Prakash, 2012 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 Algorithms for Interviews Adnan Aziz, Amit Prakash, 2010 This book is

subsumed by our new work Elements of Programming Interviews EPI also available from Amazon com Compared to Algorithms for Interviews EPI has many more problems 300 vs 174 increases emphasis on problems that can be solved without specialized knowledge has much more code over 250 programs and over 100 figures and is more bug free You can view a sample chapter from EPI at Adnan Aziz s homepage <http://bit.ly/adnanaziz>

**Algorithm Design and Applications**  
Michael T. Goodrich, Roberto Tamassia, 2014-11-03 ALGORITHM DESIGN and APPLICATIONS This is a wonderful book covering both classical and contemporary topics in algorithms I look forward to trying it out in my algorithms class I especially like the diversity in topics and difficulty of the problems ROBERT TARJAN PRINCETON UNIVERSITY The clarity of explanation is excellent I like the inclusion of the three types of exercises very much MING YANG KAO NORTHWESTERN UNIVERSITY Goodrich and Tamassia have designed a book that is both remarkably comprehensive in its coverage and innovative in its approach Their emphasis on motivation and applications throughout the text as well as in the many exercises provides a book well designed for the boom in students from all areas of study who want to learn about computing The book contains more than one could hope to cover in a semester course giving instructors a great deal of flexibility and students a reference that they will turn to well after their class is over MICHAEL MITZENMACHER HARVARD UNIVERSITY I highly recommend this accessible roadmap to the world of algorithm design The authors provide motivating examples of problems faced in the real world and guide the reader to develop workable solutions with a number of challenging exercises to promote deeper understanding JEFFREY S VITTER UNIVERSITY OF KANSAS DidYouKnow This book is available as a Wiley E Text The Wiley E Text is a complete digital version of the text that makes time spent studying more efficient Course materials can be accessed on a desktop laptop or mobile device so that learning can take place anytime anywhere A more affordable alternative to traditional print the Wiley E Text creates a flexible user experience Access on the go Search across content Highlight and take notes Save money The Wiley E Text can be purchased in the following ways Via your campus bookstore Wiley E Text Powered by VitalSource ISBN 9781119028796 Instructors This ISBN is needed when placing an order Directly from [www.wiley.com/college/goodrich](http://www.wiley.com/college/goodrich)

*Searching & Sorting for Coding Interviews* Meenakshi, Kamal Rawat, 2017-11-07 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

*The Big Book of Coding Interviews in Python, 2nd Edition* Interview Druid Publishing, 2017-06-03 This book contains answers to over 300 awesome coding interview questions A preview of the contents of the book is available on the website [www.interviewdruid.com](http://www.interviewdruid.com)

com It is ideally suited for preparing for programming interviews conducted by top technology companies such as Google Facebook Amazon Microsoft etc The questions in the book have been carefully selected so that they represent the most frequently asked questions in interviews The solutions are clearly explained with plenty of diagrams and comments in the code so that you can easily understand So if you are looking for saving precious time and effort for preparing for an interview then this is the right book for you Wishing you all the best for the interviews ahead

**Notices of the American Mathematical Society** American Mathematical Society,1991

**Elements of Programming Interviews in Java** Adnan Aziz,Tsung-Hsien Lee,Amit Prakash,2012 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

**Elements of Programming Interviews in Java** Adnan Aziz,Tsung-Hsien Lee,Amit Prakash,2015 This is the Java version of our book See the website for links to the C version as well as to a version that uses larger fonts Have you ever Wanted to work at an exciting futuristic company Struggled with an interview problem that could have been solved in 15 minutes Wished you could study real world computing problems If so you need to read Elements of Programming Interviews EPI EPI is your comprehensive guide to interviewing for software development roles The core of EPI is a collection of over 250 problems with detailed solutions The problems are representative of interview questions asked at leading software companies The problems are illustrated with 200 figures 300 tested programs and 150 additional variants The book begins with a summary of the nontechnical aspects of interviewing such as strategies for a great interview common mistakes perspectives from the other side of the table tips on negotiating the best offer and a guide to the best ways to use EPI We also provide a summary of data structures algorithms and problem solving patterns Coding problems are presented through a series of chapters on basic and advanced data structures searching sorting algorithm design principles and concurrency Each chapter starts with a brief introduction a case study top tips and a review of the most important library methods This is followed by a broad and thought provoking set of problems 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

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### Algorithms For Interviews Introduction

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