

Interviewing In Swift Algorithms And Data Structures Your Guide In Helping You Prepare For The Real World Of Software Engineering Interviews As An Ios Or Mac Os Developer

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Learn how to implement the most common and useful data structures and algorithms in Swift! Understanding how data structures and algorithms work in code is crucial for creating efficient and scalable apps. Swift's Standard Library has a small set of general purpose collection types, yet they definitely don't cover every case! In Data Structures and Algorithms in Swift, you'll learn how ...

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Welcome to the Swift Algorithm Club! Here you'll find implementations of popular algorithms and data structures in everyone's favorite new language Swift, with detailed explanations of how they work. If you're a computer science student who needs to learn this stuff for exams -- or if you're a self-taught programmer who wants to brush up on the theory behind your craft -- you've come to the ...

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This is especially great for string algorithm problems. Manipulating strings in Swift in an interview is a traumatic experience if you haven't drilled it repeatedly, and you rarely need to do it during Real Work if you have functional backend developers.

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Data structures and algorithms is a complex topic and can be a challenging due to level of complexity involved. This course introduces new way to learn data structures and algorithms by not only learning about them but solving real interview questions around those newly learned concepts.

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Written for students and professionals, Swift Algorithms & Data Structures blends modern code, illustrations, and computer science to help you pass the technical interview or build your next App.

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Written by a seasoned Silicon Valley technologist and programmer, this guide serves to help you prepare for the real world of software engineering interviews as an iOS or macOS developer. The book will cover learning data structures and how to apply these data structures to your algorithms to solve problems in a more efficient way.The book contains working Swift code examples for the version it was written in.

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Learn Data Structures & Algorithms in Swift! Data structures and algorithms form the basis of computer programming and are the starting point for anyone looking to become a software engineer. Choosing the right data structure and algorithm involves understanding the many details and trade-offs of using them, which can be time-consuming to learn - and confusing. This is where this book, Data Structures & Algorithms in Swift, comes to the rescue! In this book, you'll learn the nuts and bolts of how fundamental data structures and algorithms work by using easy-to-follow tutorials, loaded with illustrations; you'll also learn by working in Swift playground code. Who This Book Is For This book is for developers who know the basics of Swift syntax and want a better theoretical understanding of what data structures and algorithms are in order to build more complex programs or ace a whiteboard interview. Topics Covered in Data Structures & Algorithms in Swift Basic data structures and algorithm including stacks, queues and linked lists. How protocols can be used to generalize algorithms. How to leverage the algorithms of the Swift standard library with your own data structures. Trees, tries and graphs. Building algorithms on top of other primitives. A complete spectrum of sorting algorithms from simple to advanced. How to think about algorithmic complexity. Finding shortest paths, traversals, subgraphs and much more. After reading this book, you'll have a solid foundation on data structures and algorithms and be ready to elegantly solve more complex problems in your apps.

Now in the 6th 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 189 programming interview questions and answers, as well as other advice.

Control the performance and stability of the apps you develop in Swift by working with and understanding advanced concepts in data structures and algorithms. All professional developers have to know which data structure and algorithms to use in their development process. Your choice directly affects the performance of your application. With this book, you'll increase the performance of your software, become a better developer, and even pass tricky interview questions better when looking at professional development opportunities. Guided by compact and practical chapters, you'll learn the nature and proper use of data structures such as arrays, dictionaries, sets, stacks, queues, lists, hash tables, trie, heaps, binary trees, red black trees, and R-trees. Use the main differences among them to determine which will make your applications efficient and faster. Then tackle algorithms. Work with Big O notation; sorting algorithms such as Insertion, Merge, and Quick; Naive and Rabin Karp algorithms; and Graph Algorithms. Data Structures and Algorithms in Swift encourages you to further and understand how to best choose the perfect algorithm for your application's needs. What You'll Learn Retrieve, add, and remove elements in arrays Implement stacks, queues, and lists in your apps Sort algorithms and choose the best ones for your apps Who This Book Is For Developers who have intermediate knowledge in Swift and want to improve their code performance and pass more complex interviews

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Swift is the definitive language for Apple development today and it's a vital part of any iOS and macOS developer's skill set. The Mastering Swift book over the years has established itself as one of the popular choices for an in-depth and practical guide on Swift programming language amongst developers. The latest fifth edition is fully ...

Want to write iOS apps or desktop Mac applications? This introduction to programming and the Objective-C language is your first step on the journey from someone who uses apps to someone who writes them. Based on Big Nerd Ranch's popular Objective-C Bootcamp, Objective-C Programming: The Big Nerd Ranch Guide covers C, Objective-C, and the common programming idioms that enable developers to make the most of Apple technologies. Compatible with Xcode 5, iOS 7, and OS X Mavericks (10.9), this guide features short chapters and an engaging style to keep you motivated and moving forward. At the same time, it encourages you to think critically as a programmer. Here are some of the topics covered: Using Xcode, Apple's documentation, and other tools Programming basics: variables, loops, functions, etc. Objects, classes, methods, and messages Pointers, addresses, and memory management with ARC Properties and Key-Value Coding (KVC) Class extensions Categories Classes from the Foundation framework Blocks Delegation, target-action, and notification design patterns Key-Value Observing (KVO) Runtime basics

Take a closer look at algorithms and data structures and learn how to work with them to more efficiently approach software development with Swift. "Introduction to Algorithms and Data Structures in Swift 4" is a straightforward guide to solving coding problems more efficiently. In this comprehensive book, author Károly Nyisztor helps to familiarize yourself with algorithmic thinking and code optimization techniques. He explains each concept using easy-to-understand examples. He focuses on the practical application, using hands-on Swift code examples you can use for reference and practice. Throughout the book, Károly walks you through several demo applications to demonstrate the power of algorithms and the importance of picking the right solution.Topics include: - Algorithmic thinking- The Big O notation- Constant, linear, polynomial and logarithmic time complexity- Understanding recursion and avoiding pitfalls- Case studies for finding faster solutions- The power of Generics- Built-in Swift collection types- When to use a Set, an Array or a Dictionary?- Implementing selection sort, insertion sort, and bubble sort- Advanced sorting: quicksort and merge sortThe study of algorithms and data structures is fundamental to any programmer who plans to develop software systems that are scalable and performant. "Introduction to Algorithms and Data Structures in Swift 4" is the perfect book for you if you're interested in bringing your Swift coding skills to the next level.Student reviews from the companion course: "LOVE this instructor! His explanations are always clear and accurate, and his pacing is spot-on. Fantastic!" - Glenn"Speed is very good for the content being taught. The size of the videos is perfect for the depth of the topic being discussed." - Nick Perkins"Excellent clear presentation and covering the topic very well - recommended course!" - Graham Wright"Very well made and in-depth explanations. Easy to follow and a lot of visual references making it very easy to understand! Great course overall and highly recommended." - Peter West"This course gives me a much deeper understanding of how to write efficient and effective Swift code. It addresses things not covered in the various other crash courses on iOS development, things not apparent at first. I'd published several simple apps and games already but discovered I needed this information when I started working on a much more complex app and needed to understand how to improve my app's performance, so I searched for information on that and discovered this very helpful course." - Minni K. AngAbout the AuthorKároly Nyisztor is a veteran mobile developer and instructor.He has built several successful iOS apps and games-most of which were featured by Apple-and is the founder at LEAKKA, a software development, and tech consulting company. He's worked with companies such as Apple, Siemens, SAP, and Zen Studios.Currently, he spends most of his days as a professional software engineer and IT architect. In addition, he teaches object-oriented software design, iOS, Swift, Objective-C, and UML. As an instructor, his aim is to share his 20+ years of software development expertise and change the lives of students throughout the world. He's passionate about helping people reveal hidden talents, and guide them into the world of startups and programming.You can find his courses and books on all major platforms including Amazon, Lynda, LinkedIn Learning, Pluralsight, Udemy, and iTunes.

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