JavaScript Data Structures and Algorithms

An Introduction to Understanding and Implementing Core Data Structure and Algorithm Fundamentals

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Data Structures And Algorithms With Javascript

Yang Hu

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Reduction and Backtracking Table of Contents Chapter 0 How to use this book Chapter 1 Algorithms Analysis Chapter 2 Approach to solve algorithm design problems Chapter 3 Abstract Data Type C Collections Chapter 4 Searching Chapter 5 Sorting Chapter 6 Linked List Chapter 7 Stack Chapter 8 Queue Chapter 9 Tree Chapter 10 Priority Queue Chapter 11 Hash Table Chapter 12 Graphs Chapter 13 String Algorithms Chapter 14 Algorithm Design Techniques Chapter 15 Brute Force Algorithm Chapter 16 Greedy Algorithm Chapter 17 Divide Conquer Chapter 18 Dynamic Programming Chapter 19 Backtracking Chapter 20 Complexity Theory   *Absolute Beginner's Guide to Algorithms* Kirupa Chinnathambi,2023-12-08 A hands on easy to comprehend guide that is perfect for anyone who needs to understand algorithms With the explosive growth in the amount of data and the diversity of computing applications efficient algorithms are needed now more than ever Programming languages come and go but the core of programming algorithms and data structures remains the same Absolute Beginner s Guide to Algorithms is the fastest way to learn algorithms and data structures Using helpful diagrams and fully annotated code samples in Javascript you will start with the basics and gradually go deeper and broader into all the techniques you need to organize your data Start fast with data structures basics arrays stacks queues trees heaps and more Walk through popular search sort and graph algorithms Understand Big O notation and why some algorithms are fast and why others are slow Balance theory with practice by playing with the fully functional JavaScript implementations of all covered data structures and algorithms Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details   **Learning JavaScript Data Structures and Algorithms - Third Edition** Loiane Groner,2018 Create classic data structures and algorithms such as depth first search and breadth first search learn recursion as well as create and use a heap data structure using JavaScript About This Book Implement common data structures and the associated algorithms along with the context in which they are used Master existing JavaScript data structures such as arrays sets and maps and learn how to implement new ones such as stacks linked lists trees and graphs in ES 8 Develop abstract data types to make JavaScript a more flexible and powerful programming language Who This Book Is For If you re a JavaScript developer who wants to dive deep into JavaScript and write complex programs using JavaScript data structures and algorithms this book is for you What You Will Learn Declare initialize add and remove items from arrays stacks and queues Create and use linked lists doubly linked lists and circular linked lists Store unique elements with hash tables dictionaries and sets Explore the use of binary trees and binary search trees Sort data structures using algorithms such as bubble sort selection sort insertion sort merge sort and quick sort Search elements in data structures using sequential sort and binary search In Detail A data structure is a particular way of organizing data in a computer to utilize resources efficiently Data structures and algorithms are the base of every solution to any programming problem With this book you will learn to write complex and powerful code using the latest ES 2017 features Learning JavaScript Data Structures and Algorithms begins by covering the basics of JavaScript and introduces you to ECMAScript 2017 before

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