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Data Structures & Algorithms for interviews Course Content

Algorithm Analysis (1hr)

Big O notation Theta notation Omega notation

Stacks (2hrs)

Array implementation Linked list implementation

implementation of 6 problems

Recursion (1 hr)

Recursion analysis using stack frames Recursion analysis using recursion tree

implementation of 3 problems

Queues (2hrs)

Array implementation Linked list implementation

implementation of 6 problems

Linked List (7hrs)

node structure linked list implementation Implement following routines getnode(), insertFront(), insertAfter(), insertEnd(), , delFirst(), DelEnd() DeleAfter()

implementation of 35+ problems

Circular linked list (2 hr)

node structure circular linked list implementation Implement following routines insert(), remove(), stack as CLL, queue as CLL

implementation of 4 problems

Doubly linked list (2 hr)

node structure Doubly linked list implementation Implement following routines setLeft(), setRight(), remove(), removeLeft(), RemoveRight()

implementation of 6 problems

Sorting (3 hrs)

Bubble sort Insertion sort Quick sort Merge sort Heap sort Priority queue

Searching (1 hr)

Linear Search Binary search

Hash Table (1hr)

open hashing closed hashing implementation of hash table

> Arrays (1hr) 12 problems

Strings (1 hr) 6 problems

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Data Structures & Algorithms for interviews Course Content

Trees (7 hrs)

Tree terminology Binary Tree Binary Search Tree Implement following routines PreTraversal(), postTraversal(), inorderTrav() createtree(), setleft(), setRight(), createTree(), disposeTree(), FindKey() findMin(), findMax(), delete() operation

implementation of 35+ problems

AVL Tree (1hr)

Rotations LR, RL, LL, RR

B Tree (1hr)

node structure insert() search() delete()

Divide and Conquer (2hrs)

Merge Sort() Quick Sort() Binary Search()

Tries (4hrs)

node structure Implement following routines insert() search()

implementation of 3 problems

Suffix Trees (1hr)

Ternary Search Tree (1hr)

node structure Implement following routines insert() search()

Dynamic Programming (4hrs)

Introduction to dynamic programming memorization (top down) tabulation (Bottom up) optimal sub structure

implementation of 1 Longest common sub sequence 2 Min cost path Matrix 3 Knapsack problem 4 Coin change problem 5 factorial of a numer 6 fibanacci series

GRAPHS (4hrs)

node structure Implement following routines Adjacency matrix Adjacency list BFS() DFS() Spanning tree implementation of 6 problems

Greedy (2hrs)

Kruskals spanning tre Primes spanning tree Disjaskra shortest path Knapsack problem Min cost path Matrix Coin change problem Longest common sub sequence Huffman Coding

Backtracking (1hr)

print permutations of a String rat in amaze problem



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