

Imp. ✓ Topic Understanding 3 high

Lecture 1. ✓ 1 O , Θ , Ω notations

2 Master theorem

3 Divide & Conquer

2 Binary search

1 Merge sort

2 { sequence of statements
if then else statements
Loops

Nested Loops

3 Complexity analysis

Lecture 2 1 median & order statistics 3

3 Quick Sort 2

2 Randomized Partition 2

3 Complexity of Randomized Select 1

1 ~~Insertion sort~~ 1

Lecture 3 1 Definition of Heuristic 2

1 Problem Types 3

1 Greedy Algo Definition 3

2 Activity Selection Problem 2

2 Huffman Codes 2

2 Memory Caching 1

1 Scheduling to Minimizing Lateness

- Greedy Temple 0
- CD Burners Problem 0
- Min # of platforms 0
- Row of seats 0

Lecture 4 3 Shortest Path Problems

3 Dijkstras algorithm 2

2 Correctness 1

1 Example of BFS 2

③ * 3 Minimum Spanning Trees 2 (prim's)

3 Maximum Flow Problem 2

(Folk Fulkerson method)

Lecture 5 2 Assembly-Line Scheduling 1

2 knapsack Problem 2

④ * 3 Shortes Path(s) - Dijkstras 2

1 Longest Common Subseq 2

Lecture 6 1 Aggregating method

2 Amortized Complexity

2 Multipop

3 Binary counter

⑤

3 Accounting Method

3 Potential Method

* 3 Dynamic Table

DFS-BFS 3 Visitation Problem

will be on the midterm

likely be on the midterm

already asked in the past quizzes