INTERVIEW PREP BOOK CLUB – DAY 4

Agenda

- **Resume Writing**
  - *https://www.techinterviewhandbook.org/resume/*
  - *https://www.youtube.com/watch?v=Tt08KmFfIYQ*
- **Behavioral interviews**
  - *https://www.techinterviewhandbook.org/behavioral-interview/*
  - *https://www.youtube.com/@DanCroitor/videos*
- **Coding interviews**
  - *https://frontendmasters.com/courses/algorithms/*
    - https://www.techinterviewhandbook.org/algorithms/study-cheatsh
  - *https://www.techinterviewhandbook.org/grind75*
  - *https://neetcode.io/* | *https://leetcode.com/problems/*
- **System design interview**
  - *https://www.youtube.com/watch?v=o-k7h2G3Gco*
  - *https://www.youtube.com/@SDFC*

The Last Algorithms Course You'll Need

ThePrimeagen

- Week 1
  - *Introduction, Basics, Search*
- Week 2
  - *Sort, Arrays*
- Week 3
  - *Recursion, Quick Sort*
- Week 4
  - *Doubly Linked Lists, Trees*
- Week 5
  - *Tree Search*
- Week 6
  - *Heap*
- Week 7
  - *Graphs and Maps & LRU*

Grind75

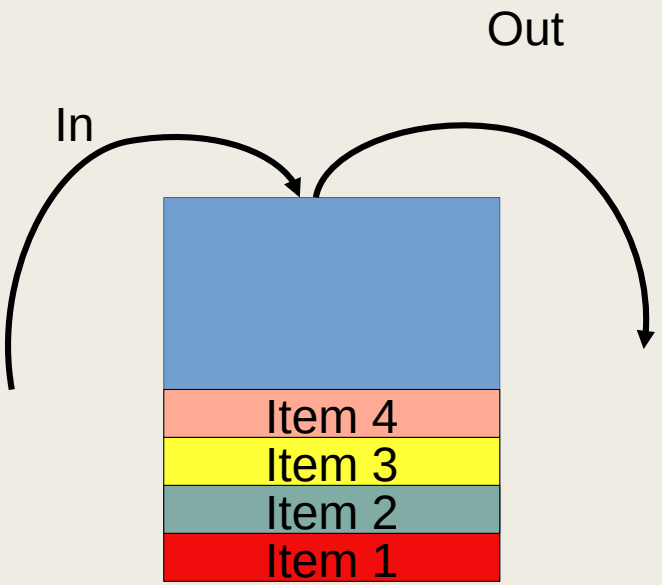
https://www.techinterviewhandbook.org/grind75?hours=4

- Book Club Week 3
  - *Week 1 List – 4 Questions*
- Book Club Week 4
  - *Week 1 List – 3 Questions*
  - *Week 2 List – 3 Questions*
- Book Club Week 5
  - *Week 2 List – 3 Questions*
  - *Week 3 List – 6 Questions*
- Book Club Week 6 - 7
  - *Week 4 List – 4 Questions*
- **… Weekly Progress**

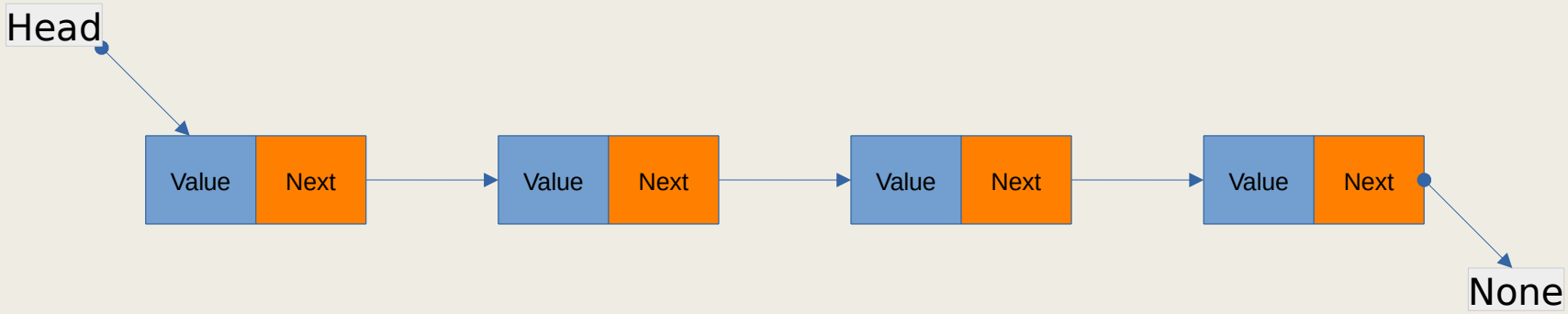
Key Data Structures / Techniques

List = [1, 2, 2, 4, 5, 6, 6] => Set {1, 2, 4, 5, 6}

Dict = {Key: Value}
Eg. {1: 2, 2:4, 3:5, 7:8}
{1:[2,3], 2:[4,6], 3:[1]}



[1, 2, 2, 4, 5, 6, 6, 10]



Example Exercises

https://leetcode.com/problems/two-sum/description/

https://leetcode.com/problems/valid-parentheses/description/

https://leetcode.com/problems/merge-two-sorted-lists/description/

https://leetcode.com/problems/best-time-to-buy-and-sell-stock/description/

Data Structures

- Array
- Linked List
- Stack
- Queue
- Binary Tree
- Binary Search Tree
- Heap
- Hashing
- Graph
- Matrix

Valuable Resources

- https://visualgo.net/en
- https://hackernoon.com/14-patterns-to-ace-any-coding-interview-question-c5bb3357f6ed

Suggested books

- **Grokking Algorithms**
- **System Design Interview**
- **The Phoenix Project**
- **Designing Data-Intensive Applications** *