

Data Structures & Algorithms

Cheat Sheet for Tech Interviews

Arrays

Collection of elements stored in-contiguous memory

- Two pointers
- Sliding window
- Sorting



Linked Lists

A sequence of elements where each element points to the next

- Reverse a linked list
- Detect a cycle
- Merge lists



Stacks & Queues

Algorithms are LIFO and FIFO

- Evaluate RPN
- Parentheses validation
- Implement cache



Trees

Hierarchical structures with parent/child relationships

- Binary tree
- Binary search tree
- Trie



Common, tree algorithms

- Tree traversal
- Lowest common ancestor
- Diameter of a tree

Searching

- Binary search
- Depth/Breadth-first search
- A* w/ heuristics

Sorting

- Quick sort
- Merge sort
- Heap sort
- Insertion sort
- Topological sort

Algorithms For Interviews

SJ Ball



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