

# 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

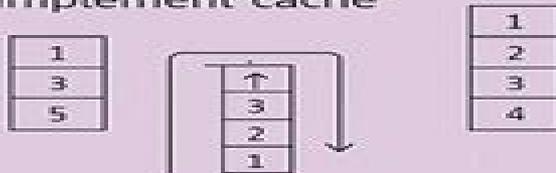
- Reverse a linked list
- Detect a cycle
- Merge lists



### Stacks & Queues

Algorithms are LIFO and FIFO

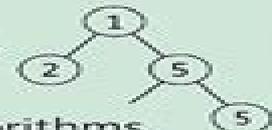
- Evaluate RPN
- Parentheses validation
- Implement cache



### 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

**American Mathematical Society**

A red circular graphic with a gradient, appearing as a semi-circle on the right side of the slide, partially overlapping the grey bar.

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