

# 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

**SB Merriam**



## **Algorithms For Interviews:**

## **Algorithms For Interviews** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Algorithms For Interviews**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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