

Basic

- ☐ Hello World
- ☐ Adding Two Numbers
- ☐ String Concatenation
- ☐ Basic I/O

I/O

- ☐ Save to File

Iterators

- ☐ (Do) While Loop
- ☐ For Loop
- ☐ Recursive

Data Structures

- ☐ Array
- ☐ Linked List
- ☐ Binary Tree
- ☐ Heaps
- ☐ Queue
- ☐ Stack
- ☐ Hash Table
- ☐ Graph
- ☐ Matrix
- ☐ Trie

Algorithms

- ☐ Binary Search
- ☐ Linear Search
- ☐ BFS
- ☐ DFS
- ☐ Merge Sort
- ☐ Selection Sort
- ☐ Quick Sort
- ☐ Bubble Sort
- ☐ Inplace Swap

- ☐ Radix Sort

- ☐ Insertion Sort

- ☐ Bucket Sort

- ☐ A*

Math

- ☐ Factorials

- ☐ GCD & LCD

- ☐ Fibonacci

- ☐ Large Numbers

Popular Problems

- ☐ Tower of Hanoi

- ☐ Tic-Tac-Toe

- ☐ Eight Queens

- ☐ Sudoku

Linear Algebra

- ☐ Adjacency Lists

- ☐ Graph Matrices

- ☐ Matrix Multiplication

- ☐ Determinant

Dynamic Programming

- ☐ Bottom-Up

- ☐ Top-Down