

AXSOS ACADEMY

Problem Solving Patterns



Why to learn Problem Solving Patterns?

- Build an understanding of the pattern so that we can apply that pattern to solve coding problems.
- Help developers to know the area of thinking through keywords and question ideas.
- Optimal solutions
- Those patterns are becoming trending and recommended by popular international tech companies.

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What is Problem Solving Patterns?

- Each pattern will consist of data structures, algorithms, and analysis techniques to solve a specific category of problems.
- Interview coding problems can be categorized into **16 patterns**.

16 Pattern

- Sliding Window
- Two Pointers
- Fast Slow Pointers
- Merge Intervals
- Cycle Sort
- In-place reversal of a LinkedList
- Tree Breadth-First Search
- Tree Depth First Search
- Two Heaps
- Subsets
- Modified Binary Search
- Bitwise XOR
- Top K elements
- K-way merge
- Knapsack
- Topological Sort



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