

# Patterns to follow when doing DSA :

## 1. 2 Pointer Problems

<https://leetcode.com/discuss/study-guide/1688903/Solved-all-two-pointers-problems-in-100-days>

## 2. Backtracking Pattern

<https://medium.com/leetcode-patterns/leetcode-pattern-3-backtracking-5d9e5a03dc26>

## 3. Dynamic Programming Patterns

<https://leetcode.com/discuss/study-guide/458695/Dynamic-Programming-Patterns>

## 4. Dynamic Programming Patterns 2

<https://leetcode.com/discuss/study-guide/1437879/Dynamic-Programming-Patterns>

## 5. Powerful Ultimate Binary Search Template

<https://leetcode.com/discuss/study-guide/786126/Python-Powerful-Ultimate-Binary-Search-Template.-Solved-many-problems>

## 6. A general approach to backtracking questions

[https://leetcode.com/problems/permutations/solutions/18239/A-general-approach-to-backtracking-questions-in-Java-\(Subsets-Permutations-Combination-Sum-Palindrome-Partitioning\)/](https://leetcode.com/problems/permutations/solutions/18239/A-general-approach-to-backtracking-questions-in-Java-(Subsets-Permutations-Combination-Sum-Palindrome-Partitioning))

## 7. Binary Tree Traversal & Views

<https://leetcode.com/discuss/study-guide/937307/Iterative-or-Recursive-or-DFS-and-BFS-Tree-Traversal-or-In-Pre-Post-and-LevelOrder-or-Views>

## 8. Graph For Beginners [Problems | Pattern | Sample Solutions]

<https://leetcode.com/discuss/study-guide/655708/Graph-For-Beginners-Problems-or-Pattern-or-Sample-Solutions>

## 9. A comprehensive guide and template for monotonic stack based problems

<https://leetcode.com/discuss/study-guide/2347639/A-comprehensive-guide-and-template-for-monotonic-stack-based-problems>

## 10. All Types of Patterns for Bits Manipulations and How to use it

<https://leetcode.com/discuss/study-guide/4282051/all-types-of-patterns-for-bits-manipulations-and-how-to-use-it>

## 11. Collections of Important String questions Pattern

<https://leetcode.com/discuss/study-guide/2001789/Collections-of-Important-String-questions-Pattern>

## 12. Leetcode Pattern 1 | BFS + DFS == 25% of the problems

<https://medium.com/leetcode-patterns/leetcode-pattern-1-bfs-dfs-25-of-the-problems-part-1-519450a84353>

**13. template that can solve most 'substring' problems**

<https://leetcode.com/problems/minimum-window-substring/solutions/26808/Here-is-a-10-line-template-that-can-solve-most-'substring'-problems/>

**14. C++ Maximum Sliding Window Cheatsheet Template**

<https://leetcode.com/problems/frequency-of-the-most-frequent-element/solutions/1175088/C++-Maximum-Sliding-Window-Cheatsheet-Template/>