

cover all the main resources like neetcode striver leetcode apna love bubbler in internet cover main resources then give me the patterns of "strings"

Here's a complete guide to **main string DSA resources** on the internet, highlighting core guides by NeetCode, Striver (takeUforward), LeetCode official, Apna College (Shradha Khapra), and Love Babbar. After that, you'll find a categorized, interview-focused **list of string patterns**.

Main DSA String Resources (By Top Educators)

Resource	Platform/Medium	String Guide/Sheet/Playlist	Features/Highlights
NeetCode	[Website] ^[1] , [YouTube] ^[2]	Leetcode 150 (String), Video Solutions	Concise patterns, Blind 75, decode/encode ^[3] ^[4] ^[5] ^[6]
Striver (takeUforward)	[takeuforward.org] ^[7] ^[8] ^[9]	A2Z DSA Sheet, Tutorials on String Matching	Wildcard, DP, Pattern Search, String algos
LeetCode	[LeetCode Practice] ^[10]	String Problem List	250+ real company interview Qs
Apna College	[YouTube Playlist] ^[11] ^[12] , [Notes] ^[13]	DSA Placement Series: Strings, Notes	Hindi/English, string basics to advanced
Love Babbar	[DSA Sheet] ^[14] , [YouTube] ^[15] ^[16]	450 DSA Sheet, Full String Series	C++, Python focus, string tricks & edge
AlgoMaster, Educative, ByteByteGo	Blogs, video series not in big 5	"15 Patterns", "Top Interview Strings"	Extra—help connect related problems

Essential String Patterns for Interview Prep

Mastering these **patterns covers 90% of string-based LeetCode/interview problems**.

1. Two Pointers/Sliding Window

- Reverse a String, Remove Duplicates
- Check/Build Palindrome
- Move/Remove Characters, Substrings
- Example: Valid Palindrome, [Remove All Occurrences] ^[15]

2. Hash Map/Set for Frequencies or Uniqueness

- Longest Substring Without Repeating
- All Anagrams/Permutations in String
- Group Anagrams
- Example: [Permutation in String]^[15], [Longest Substring...]^[17]

3. Dynamic Programming on Strings

- Edit Distance (Levenshtein)
- Wildcard/Regular Expression Matching
- Longest Common Subsequence/Substring
- Example: [Wildcard Matching]^[8] ^[16], [Regular Expression]^[4]

4. String Construction/Compression

- Encode & Decode Strings (Custom Rules)
- String Compression/Decompression
- Example: [Encode & Decode]^[3], [String Compression]^[15]

5. Pattern Finding (KMP, Rabin-Karp, Naive)

- Substring Match/Search
- Pattern vs. Text Find
- Example: [Pattern Searching Intro]^[9], [Substring Matching]^[18] ^[5]

6. Stack-Based Approaches

- Remove Adjacent Duplicates
- Balanced Parentheses
- Example: [Remove Adjacent Duplicates]^[15]

7. Sorting & Custom Order

- Grouping By Anagram/Characters
- Sort by Frequency/Occurrence
- Example: [Maximum Occurring Character]^[15]

Problem Mapping Example Table

Pattern	Core Interview Problems
Two Pointers/Window	Reverse string, palindrome check, remove adjacent, substring window
Map/Set & Frequency	Anagrams, longest substring w/o repeat, permutation-in-string
DP, Pattern Match	Edit distance, wildcard, regex, subsequence
Construction/Compression	Encode/decode, string compression
Stack	Remove adjacent duplicates, valid parentheses
Sort/Custom	Max/first/last occurring char, group anagrams

- **Best Method:** Pick one pattern, solve 3-5 problems each from these official/YouTube sheets, then move to the next pattern. This gives you full "pattern chain" mastery (i.e., how a tweak in one leads to another).
- Check each educator's sheet/video notes for code templates and problem ladders for chaining interview questions [\[11\]](#) [\[15\]](#) [\[12\]](#) [\[16\]](#) [\[13\]](#) [\[14\]](#).
- For every pattern try relevant problems on LeetCode's dedicated [string page] [\[10\]](#).

These resources and patterns are the backbone for string mastery in interviews and real-world coding.

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1. <https://neetcode.io>
2. <https://www.youtube.com/@NeetCode/videos>
3. <https://neetcode.io/problems/string-encode-and-decode>
4. <https://neetcode.io/problems/regular-expression-matching>
5. <https://www.youtube.com/watch?v=7K2BjgCFDo>
6. <https://neetcode.io/practice?tab=neetcode150>
7. <https://takeuforward.org/strivers-a2z-dsa-course/must-do-pattern-problems-before-starting-dsa/>
8. <https://takeuforward.org/data-structure/wildcard-matching-dp-34/>
9. <https://takeuforward.org/string/introduction-to-pattern-searching-strings/>
10. <https://leetcode.com/problem-list/string/>
11. <https://www.youtube.com/watch?v=MOSjYaVymcU>
12. <https://www.youtube.com/watch?v=VXewy91POS4>
13. <https://www.apnacollege.in/notes>
14. <https://www.geeksforgeeks.org/dsa/dsa-sheet-by-love-babbar/>
15. <https://www.youtube.com/watch?v=Wdjr6uoZ0e0>
16. <https://www.youtube.com/watch?v=OgovJ9CB0hl>
17. <https://blog.algomaster.io/p/15-leetcode-patterns>

18. <https://leetcode.com/problems/substring-matching-pattern/>