

# 50

## Strings Practice Questions

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# EASY (10 Questions)

(Beginner-friendly, direct string inputs)

1. Reverse the string "Amazon".
  2. Count the number of vowels in "JavaScript".
  3. Check if "Madam" is a palindrome (ignore case).
  4. Return the first and last characters of "Hello World".
  5. Trim the extra spaces from " Welcome to DSA ".
  6. Convert "hello-world" to camelCase.
  7. Convert "apple,banana,grape" into an array, then join it back with " | ".
  8. Replace the first occurrence of "cat" with "dog" in "The cat sat on the cat.".
  9. Find the index of "abc" in "xyzabc123".
  10. Check if "https://google.com" starts with "https" and ends with ".com".
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## MEDIUM (15 Questions)

(More logic, multiple operations, combinations)

11. Reverse the words in "I am a tech Jashwanth Subscriber".
  12. Count occurrences of each character in "banana".
  13. Check if "listen" and "silent" are anagrams (ignore case & spaces).
  14. Remove duplicate characters from "programming" (keep order).
  15. Find the longest word in "Hard work beats talent".
  16. Capitalize each word in "welcome to javascript".
  17. Check if "erbottlewat" is a rotation of "waterbottle".
  18. Find all starting indices of "aba" in "abaabaabab" (return an array of indices).
  19. Truncate "JavaScriptDeveloper" to **10 characters** and add "....".
  20. Check if "ace" is a subsequence of "abcde".
  21. Remove all vowels from "Beautiful Day".
  22. Find the longest common prefix between "flower", "flow", "flight".
  23. Convert "I love coding" into "I love coding" (remove extra spaces).
  24. Find the most frequent word in "This is a test. This test is simple."
  25. Pad "42" to become "000042" using padStart (total length = 6).
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# DIFFICULT (25 Questions)

(Advanced string logic, DP, sliding window, pattern matching)

26. Find the length of the longest substring without repeating characters in "abcabcbb".
27. Find the longest palindromic substring in "babad".
28. Count all **distinct substrings** of "aaa".
29. Compress "aaabbccccc" → return "a3b2c4d1" (or original if not shorter).
30. Implement substring search and find the first index of "needle" in "findtheneedleinahaystack".
31. Find the shortest substring of "aabcbcdcbca" that contains all distinct characters of the string.
32. Given string = "ADOBECODEBANC" and pattern = "ABC", find the minimum window containing all characters.
33. Remove the minimum number of parentheses to make "a)b(c)d" valid; return a valid result.
34. Check if "great" and "rgeat" are scramble strings.
35. Return all palindromic partitions of "aab" (e.g., [ "a" , "a" , "b" ] , [ "aa" , "b" ] ).
36. Match text "adceb" with pattern "\*a\*b" where \* = any sequence and ? = any single char.
37. Restore all valid sentences from "catsanddog" using dictionary [ "cat" , "cats" , "and" , "sand" , "dog" ].
38. Convert "MCMXCIV" to integer (Roman to number).
39. Given "abcd", find its **next lexicographical permutation**.
40. Given string "AABABBA" and k = 1, find the longest substring where you can replace at most 1 character to make all characters same.

41. Check if "abca" can become a palindrome by removing at most one character.
42. Count how many anagrams of "abc" exist inside "cbadbac" (sliding window).
43. Stream of characters: "a", "a", "b", "c", "a", "b", "d" — return the first non-repeating character at each step.
44. Compute the edit distance between "horse" and "ros".
45. Validate if " -42.50 " is a valid number (integers & decimals allowed).
46. Normalize email addresses in [ "test.email+alex@gmail.com", "test.e.mail+bob@gmail.com" ] and return count of unique ones.
47. Form the shortest palindrome by adding characters **in front** of "abcd".
48. Find the **longest common substring** between "abcdef" and "zcdemf".
49. Given "applepenapple" and dictionary [ "apple", "pen" ], check if it can be segmented (word break).
50. Evaluate the expression "3+5\*2-9/3" (build an expression evaluator).