

String in Data Structure - GeeksforGeeks

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Courses Tutorials Practice Jobs DSA Tutorial Interview Questions Quizzes Must Do Advanced DSA System Design Aptitude Puzzles Interview Corner DSA Python Technical Scripter 2026 Explore DSA Fundamentals Logic Building Problems Analysis of Algorithms Data Structures Array Data Structure String in Data Structure Hashing in Data Structure Linked List Data Structure Stack Data Structure Queue Data Structure Tree Data Structure Graph Data Structure Trie Data Structure Algorithms Searching Algorithms Sorting Algorithms Introduction to Recursion Greedy Algorithms Tutorial Graph Algorithms Dynamic Programming or DP Bitwise Algorithms Advanced Segment Tree Binary Indexed Tree or Fenwick Tree Square Root (Sqrt) Decomposition Algorithm Binary Lifting Geometry Interview Preparation Interview Corner GfG160 Practice Problem GeeksforGeeks Practice - Leading Online Coding Platform Problem of The Day - Develop the Habit of Coding DSA Course 90% Refund String in Data Structure Last Updated : 31 Aug, 2025 A string is a sequence of characters. The following facts make string an interesting data structure. Small set of elements. Unlike normal array, strings typically have smaller set of items. For example, lowercase English alphabet has only 26 characters. ASCII has only 256 characters. Strings are immutable in programming languages like Java, Python, JavaScript and C#. Many String Problems can be optimized using the fact that the character set size is small. For example sorting can be done faster, counting frequencies of items is faster and many interesting interview questions are based on this. Basics Introduction to Strings In Different Languages Strings in C String Class in C++ String in Java Python String C# | String JavaScript String PHP | Strings Basic Operations Length of a String Check for Same Search a Character Insert a Character Remove a Character Remove all occurrences Concatenating Two Strings Reverse a string Generate all Substrings Easy Problems Check for Binary Camel Case Conversion Substrings with Corners as 1s Check for Panagram Check for Palindrome Check for Substring Check for Subsequence Check for Anagrams Check for K-Anagrams URLify a given string Medium Problems on String: First Repeating Character First Non-Repeating Character Check for Rotation K'th Non-repeating Character Implement atoi Validate IP Address Add n Binary Strings Multiply 2 Strings Isomorphic Strings Remove Adjacent Roman to Integer Interleaved Strings Permutations of a String Longest Palindromic Substring Anagram substrings Binary strings without consecutive 1's Lexicographically next string Split String into four distinct strings Word Break Problem Minimum Swaps for Bracket Balancing String to mobile numeric keypad sequence Shortest path to print a string on screen Hard Problems on String: Lexicographic Rank of a String Multiply Large Numbers Ways to increase LCS length of 2 strings by one Alien Dictionary Make two strings Anagram Make two Strings Anagram Without Deletion Palindrome Substring Queries Word Search - 8 Directions and Straight Movement Word Search - 4 Directions and Zig-Zag Allowed Minimum bracket reversals to make balanced Word Wrap problem Decode a string encoded with recursive substring counts Please refer String Problems Topic Wise for the list of questions on different topics like binary string, subsequence and substring, pattern searching and palindrome. Comment Article Tags: Article Tags: Strings DSA