

Set of Problems with strings:

SET 1: (EASY)

- 1) Left rotation K times (normal loop and substring method)
- 2) Right rotation k times (normal loop and substring method)
- 3) Count number of upper and lower cases
- 4) find the mismatch character in the sequence
- 5) convert it to upper case and lower case
- 6) consider two string(S1 and S2 □ compare ignoring the cases, concatenate two strings, find the common characters in two string, find the count of characters that are common, count of characters that are not common in both strings, sort the string,)
- 7) insert a word in a sentence and sort in lexicographic order
- 8) check if two strings are anagram to each other
- 9) print duplicates in two strings
- 10) remove duplicates and print non repeating elements in a string S1
- 11) check if palindrome or not
- 12) check if two strings are anagram or not
- 13) reverse a string (iterative and recursion methods)
- 14) interlace vowels and consonants
- 15) find the digits sum in the string
- 16) count number of digits present in the string
- 17) convert numeric string into integer
- 18) insert a character at Kth index
- 19) remove characters to form valid string
- 20) frequency of characters present in the string (use MAP, it could be more easier)
- 21) reverse words in a sentence
- 22) swap the adjacent words of the given word in the sentence
- 23) toggle case of consonants that have vowels on its adjacent sides
- 24) swap case of alternate words in a sentence
- 25) count words in a sentence
- 26) find whether S2 is contains in S1
- 27) find whether the string S1 starts-with "S2", end-with "S2".
- 28) Find the first occurring vowel present in the string
- 29) Find the extra character in the sequence

- 30) Inverted U pattern
- 31) Zig-zag pattern of string
- 32) Remove all special characters from the string
- 33) Replace special characters by space, vowels by consonants, digits by vowels

SET 2: (AVERAGE)

- 1) minimum deletion to form a palindrome
- 2) minimum deletions to form anagram
- 3) longest common subsequence
- 4) longest Palindromic substring and its length
- 5) Longest increasing subsequence
- 6) maximum possible insertions to form a palindrome
- 7) String 2-edits, multiple edits
- 8) find whether the given is a shuffle of two string
- 9) find the original strings from the given shuffled string
- 10) find whether third string is a valid mix or not of two given string
- 11) find all possible permutations of the given string
- 12) sort the possible permutations in lexicographic order
- 13) find total number of combinations that can be formed from the given string
- 14) number of possible deletion to form the string alternate(eg: 010100110)□ possible deletions to be made is 3 so that it becomes 010101
- 15) sort k length substrings in the given string
- 16) find the maximum occurring character from the last, from the beginning
- 17) find the longest possible substring that can be formed from the given string
- 18) maximum anagram length from the given string
- 19) find the missing lowercase alphabet in the given string
- 20) sort characters at given position and replace them in the string
- 21) sentence sorted or not- based on word length
- 22) sort the sentence based on the count of consonants
- 23) find maximum distance between repeated characters in a string
- 24) minimum insertions to make the string alternate
- 25) minimum operations to be done to make the string sorted

- 26) longest possible string with same repeated characters.
- 27) longest possible anagram substring
- 28) String comparator programs
- 29) fun with anagrams
- 30) break a Palindrome
- 31) minimum operations to convert a string to palindrome, anagram
- 32) Palindromic substrings
- 33) minimum insertion, deletion to make a string palindrome
- 34) Fibonary number-> a number with non-consecutive 1's in its binary representation.
- 35) Shuffle 2 strings
- 36) print vowels alternately from first and last
- 37) sort K length substrings
- 38) String rotation – based on queries
- 39) insert a string in lexicographic order
- 40) count common characters in 2 strings
- 41) interlaced digits printing in reverse order
- 42) sort the characters at given position and replace in the string
- 43) sort numbers based on consonant count
- 44) find missing lowercase alphabets in 2 strings
- 45) find whether the string is formed exactly using the same row characters in a American keyboard
- 46) words sorted or not – based on length
- 47) find the mismatch character in the sequence
- 48) count characters of string1 not present in string2
- 49) find strings in a row-wise matrix
- 50) find string in a column-wise matrix
- 51) top scoring batsman
- 52) top scoring student
- 53) longest possible palindrome formed by shuffling or deleting characters
- 54) replace all non-overlapping occurrences by given character in the pattern
- 55) print the character from last in increasing order sequence
- 56) string repeating elements in-place sorting

- 57) next immediate greater number than y
- 58) find the abbreviation in the given pattern
- 59) count number of sub-palindromes in a string
- 60) count articles in the string
- 61) word breaks
- 62) next number palindrome
- 63) non palindromic words in a string
- 64) longest capitalized substring
- 64) run length encoding
- 66) run length decoding
- 67) Toggle case of characters at Nth index ignoring spaces with adjacent vowels
- 68) append words at last which match the previous word last character
- 69) print alternate characters in unequal string
- 70) sort vowels in a string
- 71) count of players
- 72) vowel count in sliding window
- 73) 4 digit OTP – INFYTO question
- 74) find the major ruling party in election based on the occupied zones – TCS codevita question
- 75) Integer sum with constraints
- 76) reverse every word in a sentence
- 77) possible permutations using swap
- 75) possible permutations using recursion
- 76) sort string values – first and last
- 77) count words repeated exactly n times
- 78) Morse code conversion
- 79) find the correct operator for the expression
- 80) CODED MESSAGE – ajeera sample test question
- 81) String 2 contained in Strign1 at exact order.
- 82) Longest common substring length (with less time and auxiliary space complexity)
- 83) remove prefix and suffix in a string
- 84) print upper and lower case based on count

- 85) String – words form based on the length of words
- 86) message shift encryption – INFYTO question
- 87) upper case – all alphabets present or not
- 88) lower case – all alphabets present or not
- 89) connection words or not
- 90) number of groups formed with same alphabets Strings
- 91) String password check – using regex and normal methods
- 92) count number of consecutive repeated pairs with same alphabets
- 93) longest consecutive 1's
- 94) lexicographic sorted or not
- 95) Pangram check
- 96) words repeated x times
- 97) isomorphic strings
- 98) String shifting
- 99) find missing words in the sentence
- 100) longest common prefix in N strings
- 101) find alphabet count using hashing
- 102) reverse both half of the string
- 103) remove trailing and leading zeros of a number
- 104) sort strings based on frequency
- 105) file and extension
- 106) same sequence of distinct characters
- 107) String rotation algorithm – TCS CODEVITA program
- 108) Patients and Tokens issue system based on arrival time
- 109) check if a string is valid mix of two strings
- 110) possible palindromes in permutations
- 111) check if a reverse string is valid mix
- 112) shuffle and merge based on indexes
- 113) remove characters of next word in the current words
- 114) fill the underscore – count of strings matching the slot

- 115) maximum possible sequence starts and ends with given characters
- 116) maximum possible sequence starts and ends with vowels
- 117) longest substring with k unique characters, length
- 118) repeated characters left shift
- 119) source and destination routes
- 120) Longest common substring in 3 strings
- 121) sort string – even or odd
- 122) convert string to matrix
- 123) reverse alphabetic order - matrix diagonals
- 124) find longest continuous elements length
- 125) Replace consecutive character as a single occurrence
- 126) Binary Equivalent – TCS CODEVITA program
- 127) String Pairs – TCS CODEVITA program.

- **Prepared by:**
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