

Smart Coding & Interview Series

Top-20 Basic Program (1-D Array Applications)

First, understand the solution building strategies and coding for the problems in LIVE/VIDEO session and then you apply those strategies discussed in LIVE/VIDEO session to solve the following problems. Use your favourite language(C/C++/Java/C#/Python/Scala) for coding.

1) First Unique Character in a String: Given a string, find the first non-repeating character in it and return its index. If it doesn't exist, return -1. Assume that only lower case letters are allowed as part of string.

Example:

S="algorithmica"

Return 1

Source:<https://leetcode.com/problems/first-unique-character-in-a-string/description/>

2) First Repeated Character in a String: Given a string, find the first repeating character in it and return its index. If it doesn't exist, return -1. Assume that only lower case letters are allowed as part of string.

Example:

S="algorithmica"

Return: 0

3) Remove Characters in a String: Given a string, find an efficient algorithm that takes two strings as arguments and removes the characters from first string which are present in second string. Assume that only lower case letters are allowed as part of strings and relative order of characters in first string must be preserved.

Example:

S1="algorithmica" S2='aio'

Return: lgrthmc

4) Most Frequent Character in a String: Find an efficient algorithm that returns the most frequent character in a given string. In case of tie, return any character. Assume that only lower case letters are allowed as part of string.

Example:

S="algorithmica"

Return: a or i