# Q Remove the forbidden strings

Last Updated : 01 Mar, 2023

Given a string W, change the string in such a way that it does not contain any of the “forbidden” strings S1 to Sn as one of its substrings. The rules that govern this change are as follows:

1. Case of the characters does not matter i.e “XyZ” is the same as “xYZ”.
2. Change all the characters that are covered by the substrings in the original string **W** such that a particular letter **lt** occurs a maximum number of times in the changed string and the changed string is lexicographically the smallest string that can be obtained from all possible combinations.
3. Characters that are not within the forbidden substrings are not allowed to change.
4. The case of the changed character must be the same as the case of the original character at that position in string **W**.
5. If the letter **lt** is part of the substring then it must be changed to some other character according to the above rules.

Q[**151. Reverse Words in a String**](https://leetcode.com/problems/reverse-words-in-a-string/)

Medium

Topics

Companies

Given an input string s, reverse the order of the **words**.

A **word** is defined as a sequence of non-space characters. The **words** in s will be separated by at least one space.

Return *a string of the words in reverse order concatenated by a single space.*

**Note** that s may contain leading or trailing spaces or multiple spaces between two words. The returned string should only have a single space separating the words. Do not include any extra spaces.

**Example 1:**

**Input:** s = "the sky is blue"

**Output:** "blue is sky the"

# Q Puzzle 21 | (3 Ants and Triangle)

Last Updated : 19 Jan, 2023

There are 3 ants sitting on three corners of a triangle. All ants randomly pick a direction and start moving along edge of the triangle. What is the probability that any two ants collide?

**Hint:** Every ant has two choices (pick either of two edges going through the corner on which ant is initially sitting).

QLast Updated : 19 Jan, 2023

**Puzzle:** There are 4 persons (A, B, C and D) who want to cross a bridge in night.

1. A takes 1 minute to cross the bridge.
2. B takes 2 minutes to cross the bridge.
3. C takes 5 minutes to cross the bridge.
4. D takes 8 minutes to cross the bridge.

There is only one torch with them and the bridge cannot be crossed without the torch. There cannot be more than two persons on the bridge at any time, and when two people cross the bridge together, they must move at the slower person’s pace.

Q.Given an input array , output an array such that it consist of count of elements for each element in the input array such that it can move to its right . An element in input array can only move to its right if and only if it is smaller than that element. Eg: I/P ARRAY: 1,4,3,2,7 O/P ARRAY: 0,2,1,0,0