What is space complex city

It is related to number of calls on the stack, and memory usage

<https://stackoverflow.com/questions/18686121/differences-between-time-complexity-and-space-complexity>

For example when the algorithm has **space** complexity of:

* O(1) - constant - the algorithm uses a fixed (small) amount of space which doesn't depend on the input. For every size of the input the algorithm will take the same (constant) amount of space. This is the case in your example as the input is not taken into account and what matters is the time/space of the print command.
* O(n), O(n^2), O(log(n))... - these indicate that you create additional objects based on the length of your input. For example creating a copy of each object of v storing it in an array and printing it after that takes O(n) space as you create n additional objects

Q 1 If all character in string are unique. CCI 1

Ans is use Set or array of character

If there is space limitation then this need to be done by bit manipulation

Q2 if two strings are permutation of each other

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1. Sort them and their length will be equal
2. Count the number of characters in each of them.

Q3 If a give string is permutation of palindrome

Simple approach is count the character – all should repeat of atleast 2 times , except one

Can be simply as we have to maintain a array of character where we need to store the count

We can do away with it by maintaining a set and add element on 1st occurrence and delete on 2nd occurrence.

Q4 One character away

Q5 String compression

Q6 rotoate the matrix by 90 degree