

Run Length Encoding

Easy Accuracy: 33.12% Submissions: 27020 Points: 2

Given a string, Your task is to complete the function **encode** that returns the **run length encoded** string for the given string.

eg if the input string is "wwwaaadexxxxxx", then the function should return "w4a3d1e1x6".

You are required to complete the function **encode** that takes only one argument the string which is to be encoded and returns the encoded string.

Example 1:

Input:

str = aaaabbbccc

Output: a4b3c3

Explanation: a repeated 4 times
consecutively b 3 times, c also 3
times.

Example 2:

Input:

str = abbbcdddd

Output: a1b3c1d4

Your Task:

Complete the function **encode()** which takes a character array as a input parameter and returns the encoded string.

Expected Time Complexity: $O(N)$, N = length of given string.

Expected Auxiliary Space: $O(1)$

Constraints:

$1 \leq \text{length of str} \leq 100$

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