Shifting Letters

Medium

We have a string S of lowercase letters, and an integer array shifts.

Call the *shift* of a letter, the next letter in the alphabet, (wrapping around so that 'z' becomes 'a').

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For example, shift('a') = 'b', shift('t') = 'u', and shift('z') = 'a'.
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Now for each shifts[i] = x, we want to shift the first i+1 letters of s, x times.

Return the final string after all such shifts to S are applied.

Example 1:

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Input: S = "abc", shifts = [3,5,9]
Output: "rpl"
Explanation:
We start with "abc".
After shifting the first 1 letters of S by 3, we have "dbc".
After shifting the first 2 letters of S by 5, we have "igc".
After shifting the first 3 letters of S by 9, we have "rpl", the answer.
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Note:

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1. 1 <= S.length = shifts.length <= 20000
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2. 0 <= shifts[i] <= 10 ^ 9
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