2381. Shifting Letters II

Description

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You are given a string s of lowercase English letters and a 2D integer array shifts where shifts[i] = [start_i, end_i, direction_i]. For every i, shift the characters in s from the index start_i to the index end_i (inclusive) forward if direction_i = 1, or shift the characters backward if direction_i = 0.
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Shifting a character forward means replacing it with the **next** letter in the alphabet (wrapping around so that 'z' becomes 'a'). Similarly, shifting a character **backward** means replacing it with the **previous** letter in the alphabet (wrapping around so that 'a' becomes 'z').

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

Example 1:

```
Input: s = "abc", shifts = [[0,1,0],[1,2,1],[0,2,1]]
Output: "ace"
Explanation: Firstly, shift the characters from index 0 to index 1 backward. Now s = "zac".
Secondly, shift the characters from index 1 to index 2 forward. Now s = "zbd".
Finally, shift the characters from index 0 to index 2 forward. Now s = "ace".
```

Example 2:

```
Input: s = "dztz", shifts = [[0,0,0],[1,1,1]]
Output: "catz"
Explanation: Firstly, shift the characters from index 0 to index 0 backward. Now s = "cztz".
Finally, shift the characters from index 1 to index 1 forward. Now s = "catz".
```

Constraints:

- 1 <= s.length, shifts.length <= 5 * 10 4
- shifts[i].length == 3
- $\emptyset \leftarrow \text{start}_i \leftarrow \text{end}_i \leftarrow \text{s.length}$
- 0 <= direction i <= 1
- s consists of lowercase English letters.