Problem Link:

<https://leetcode.com/problems/shifting-letters-ii/?envType=daily-question&envId=2025-06-01>

Solution:

class Solution {

public:

string shiftingLetters(string s, vector<vector<int>>& shifts) {

int n = s.size();

vector<int> v(n + 1, 0);

for(const auto& shift : shifts)

{

int start = shift[0], end = shift[1], dir = shift[2];

int val = (dir == 1) ? 1 : -1;

v[start] += val;

if(end + 1 < n)

v[end + 1] -= val;

}

int r = 0;

for(int i = 0; i < n; ++i)

{

r += v[i];

int n = ((r % 26) + 26) % 26;

s[i] = 'a' + (s[i] - 'a' + n) % 26;

}

return s;

}

};