

# 249. Group Shifted Strings Premium

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Perform the following shift operations on a string:

- **Right shift:** Replace every letter with the **successive** letter of the English alphabet, where 'z' is replaced by 'a'. For example, "abc" can be right-shifted to "bcd" or "xyz" can be right-shifted to "yza".
- **Left shift:** Replace every letter with the **preceding** letter of the English alphabet, where 'a' is replaced by 'z'. For example, "bcd" can be left-shifted to "abc" or "yza" can be left-shifted to "xyz".

We can keep shifting the string in both directions to form an **endless shifting sequence**.

- For example, shift "abc" to form the sequence: ... <-> "abc" <-> "bcd" <-> ... <-> "xyz" <-> "yza" <-> ... <-> "zab" <-> "abc" <-> ...

You are given an array of strings `strings`, group together all `strings[i]` that belong to the

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  - **Left shift:** Replace every letter with the **preceding** letter of the English alphabet, where 'a' is replaced by 'z'. For example, "bcd" can be left-shifted to "abc" or "yza" can be left-shifted to "xyz".
- Input:** `strings = ["abc","bcd","acef","xyz","az","ba","a","z"]`
- Output:** `[["acef"],["a","z"],["abc","bcd","xyz"],["az","ba"]]`

## Example 2:

**Input:** `strings = ["a"]`

**Output:** `[["a"]]`

## Constraints:

- `1 <= strings.length <= 200`
- `1 <= strings[i].length <= 50`
- `strings[i]` consists of lowercase English letters.

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