

3093. Longest Common Suffix Queries

Solved ●

Hard Topics Companies Hint

You are given two arrays of strings `wordsContainer` and `wordsQuery`.

For each `wordsQuery[i]`, you need to find a string from `wordsContainer` that has the **longest common suffix** with `wordsQuery[i]`. If there are two or more strings in `wordsContainer` that share the longest common suffix, find the string that is the **smallest** in length. If there are two or more such strings that have the **same** smallest length, find the one that occurred **earlier** in `wordsContainer`.

Return an array of integers `ans`, where `ans[i]` is the index of the string in `wordsContainer` that has the **longest common suffix** with `wordsQuery[i]`.

Example 1:

Input: `wordsContainer = ["abcd","bcd","xbcd"]`, `wordsQuery = ["cd","bcd","xyz"]`

Output: `[1,1,1]`

Explanation:

Let's look at each `wordsQuery[i]` separately:

- For `wordsQuery[0] = "cd"`, strings from `wordsContainer` that share the longest common suffix `"cd"` are at indices 0, 1, and 2. Among these, the answer is the string at index 1 because it has the shortest length of 3.
- For `wordsQuery[1] = "bcd"`, strings from `wordsContainer` that share the longest common suffix `"bcd"` are at indices 0, 1, and 2. Among these, the answer is the string at index 1 because it has the shortest length of 3.
- For `wordsQuery[2] = "xyz"`, there is no string from `wordsContainer` that shares a common suffix. Hence the longest common suffix is `""`, that is shared with strings at index 0, 1, and 2. Among these, the answer is the string at index 1 because it has the shortest length of 3.

Example 2:

Input: `wordsContainer = ["abcdefgh","poiuygh","ghghgh"]`, `wordsQuery = ["gh","acbfgh","acbfegh"]`

Output: `[2,0,2]`

Explanation:

Let's look at each `wordsQuery[i]` separately:

- For `wordsQuery[0] = "gh"`, strings from `wordsContainer` that share the longest common suffix `"gh"` are at indices 0, 1, and 2. Among these, the answer is the string at index 2 because it has the shortest length of 6.
- For `wordsQuery[1] = "acbfgh"`, only the string at index 0 shares the longest common suffix `"fgh"`. Hence it is the answer, even though the string at index 2 is shorter.
- For `wordsQuery[2] = "acbfegh"`, strings from `wordsContainer` that share the longest common suffix `"gh"` are at indices 0, 1, and 2. Among these, the answer is the string at index 2 because it has the shortest length of 6.

Constraints:

- `1 <= wordsContainer.length, wordsQuery.length <= 104`
- `1 <= wordsContainer[i].length <= 5 * 103`
- `1 <= wordsQuery[i].length <= 5 * 103`
- `wordsContainer[i]` consists only of lowercase English letters.

- `wordsQuery[i]` consists only of lowercase English letters.
- Sum of `wordsContainer[i].length` is at most $5 * 10^5$.
- Sum of `wordsQuery[i].length` is at most $5 * 10^5$.

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Yes No

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