2559. Count Vowel Strings in Ranges

You are given a 0-indexed array of strings words and a 2D array of integers queries.

Each query queries[i] = [li, ri] asks us to find the number of strings present in the range li to ri (both inclusive) of words that start and end with a vowel.

Return an array ans of size queries.length, where ans[i] is the answer to the ith query.

Note that the vowel letters are 'a', 'e', 'i', 'o', and 'u'.

Example 1:

Input: words = ["aba","bcb","ece","aa","e"], queries = [[0,2],[1,4],[1,1]]

Output: [2,3,0]

Explanation:

The strings starting and ending with a vowel are "aba", "ece", "aa" and "e".

The answer to the query [0,2] is 2 (strings "aba" and "ece").

to query [1,4] is 3 (strings "ece", "aa", "e").

to query [1,1] is 0.

We return [2,3,0].

Example 2:

Input: words = ["a","e","i"], queries = [[0,2],[0,1],[2,2]]

Output: [3,2,1]

Explanation:

Every string satisfies the conditions, so we return [3,2,1].

Constraints:

1 <= words.length <= 105

1 <= words[i].length <= 40

words[i] consists only of lowercase English letters.

sum(words[i].length) <= 3 * 105

1 <= queries.length <= 105

0 <= li <= ri < words.length