Let's define a function f(s) over a non-empty string s, which calculates the frequency of the smallest character in s. For example, if s = "dcce" then f(s) = 2 because the smallest character is "c" and its frequency is 2.

Now, given string arrays queries and words, return an integer array answer, where each answer[i] is the number of words such that f(queries[i]) < f(W), where W is a word in words.

**Example 1:**

**Input:** queries = ["cbd"], words = ["zaaaz"]

**Output:** [1]

**Explanation:** On the first query we have f("cbd") = 1, f("zaaaz") = 3 so f("cbd") < f("zaaaz").

**Example 2:**

**Input:** queries = ["bbb","cc"], words = ["a","aa","aaa","aaaa"]

**Output:** [1,2]

**Explanation:** On the first query only f("bbb") < f("aaaa"). On the second query both f("aaa") and f("aaaa") are both > f("cc").

**Constraints:**

* 1 <= queries.length <= 2000
* 1 <= words.length <= 2000
* 1 <= queries[i].length, words[i].length <= 10
* queries[i][j], words[i][j] are English lowercase letters.