1639. Number of Ways to Form a Target String Given a Dictionary

Description

You are given a list of strings of the same length words and a string target.

Your task is to form target using the given words under the following rules:

- target should be formed from left to right.
- To form the i th character (0-indexed) of target, you can choose the k th character of the j th string in words if target[i] = words[j][k].
- Once you use the kth character of the jth string of words, you can no longer use the xth character of any string in words where x <= k. In other words, all characters to the left of or at index k become unusuable for every string.
- Repeat the process until you form the string target.

Notice that you can use **multiple characters** from the **same string** in words provided the conditions above are met.

Return the number of ways to form target from words. Since the answer may be too large, return it modulo 109 + 7.

Example 1:

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Input: words = ["acca","bbbb","caca"], target = "aba"
Output: 6
Explanation: There are 6 ways to form target.
"aba" -> index 0 ("acca"), index 1 ("b b bb"), index 3 ("cac a")
"aba" -> index 0 ("acca"), index 2 ("bb b b"), index 3 ("cac a")
"aba" -> index 0 ("acca"), index 1 ("b b bb"), index 3 ("acc a")
"aba" -> index 0 ("acca"), index 2 ("bb b b"), index 3 ("acc a")
"aba" -> index 1 ("c aca"), index 2 ("bb b b"), index 3 ("acc a")
"aba" -> index 1 ("c aca"), index 2 ("bb b b"), index 3 ("acc a")
```

Example 2:

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Input: words = ["abba","baab"], target = "bab"
Output: 4
Explanation: There are 4 ways to form target.
"bab" -> index 0 (" baab"), index 1 ("baab"), index 2 ("ab ba")
"bab" -> index 0 (" baab"), index 1 ("baab"), index 3 ("baab")
"bab" -> index 0 (" baab"), index 2 ("baab"), index 3 ("baab")
"bab" -> index 1 ("abab"), index 2 ("baab"), index 3 ("baab")
```

Constraints:

- 1 <= words.length <= 1000
- 1 <= words[i].length <= 1000
- All strings in words have the same length.
- 1 <= target.length <= 1000
- words[i] and target contain only lowercase English letters.