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100077. Longest Unequal Adjacent Groups Subsequence II

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You are given an integer n, a **0-indexed** string array words, and a **0-indexed** array groups, both arrays having length n.

The **hamming distance** between two strings of equal length is the number of positions at which the corresponding characters are **different**.

You need to select the **longest subsequence** from an array of indices [0, 1, ..., n-1], such that for the subsequence denoted as $[i_0, i_1, ..., i_{k-1}]$ having length k, the following holds:

- For adjacent indices in the subsequence, their corresponding groups are unequal, i.e., groups $[i_j]$!= groups $[i_j]$, for each j where 0 < j + 1 < k.
- words [i_j] and words [i_{j+1}] are equal in length, and the hamming distance between them is 1, where 0 < j + 1 < k, for all indices in the subsequence.

Difficulty:	(Medium)
Total Submissions:	135
Total Accepted:	37
User Tried:	107
User Accepted:	37

Return a string array containing the words corresponding to the indices (in order) in the selected subsequence. If there are multiple answers, return any of them.

A **subsequence** of an array is a new array that is formed from the original array by deleting some (possibly none) of the elements without disturbing the relative positions of the remaining elements.

Note: strings in words may be unequal in length.

Example 1:

```
Input: n = 3, words = ["bab","dab","cab"], groups = [1,2,2]
Output: ["bab","cab"]
Explanation: A subsequence that can be selected is [0,2].
- groups[0] != groups[2]
- words[0].length == words[2].length, and the hamming distance between them is 1.
So, a valid answer is [words[0],words[2]] = ["bab","cab"].
Another subsequence that can be selected is [0,1].
- groups[0] != groups[1]
- words[0].length == words[1].length, and the hamming distance between them is 1.
So, another valid answer is [words[0],words[1]] = ["bab","dab"].
It can be shown that the length of the longest subsequence of indices that satisfies the conditions is 2.
```

Example 2:

```
Input: n = 4, words = ["a","b","c","d"], groups = [1,2,3,4]
Output: ["a","b","c","d"]
Explanation: We can select the subsequence [0,1,2,3].
It satisfies both conditions.
Hence, the answer is [words[0],words[1],words[2],words[3]] = ["a","b","c","d"].
It has the longest length among all subsequences of indices that satisfy the conditions.
Hence, it is the only answer.
```

Constraints:

- 1 <= n == words.length == groups.length <= 1000
- 1 <= words[i].length <= 10
- 1 <= groups[i] <= n
- words consists of distinct strings.
- words[i] consists of lowercase English letters.

```
dp[i] = dp[j] + 1;
 8
                      from[i] = j;
9
                 }
10
11
             longest = Math.max(longest, dp[i]);
12
13 ▼
         for (let i = 0; i < n; i++) {
14 ▼
             if (dp[i] == longest) {
15
                 let cur = i;
16 ▼
                  while (cur >= 0) {
                      res.push(a[cur]);
17
18
                      cur = from[cur];
19
20
                 break;
             }
21
22
23
         return res.reverse();
24
    };
25
26
    const ok = (s, t) \Rightarrow s.length == t.length && ham(s, t) == 1
27
28 v const ham = (s, t) => {

let n = s.length, res = 0;
30 ▼
         for (let i = 0; i < n; i++) {
31
             if (s[i] != t[i]) res++;
32
33
         return res;
34
    };
```

☐ Custom Testcase

Use Example Testcases

○ Run



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