2451. Odd String Difference

Description

You are given an array of equal-length strings words. Assume that the length of each string is n.

Each string words[i] can be converted into a **difference integer array** difference[i] of length [n-1] where difference[i][j] = words[i][j+1] - words[i][j] where [0 <= j <= n-2]. Note that the difference between two letters is the difference between their **positions** in the alphabet i.e. the position of [a] is [a], [a] is [a], and [a] is [a].

• For example, for the string "acb", the difference integer array is [2 - 0, 1 - 2] = [2, -1].

All the strings in words have the same difference integer array, except one. You should find that string.

Return the string in words that has different difference integer array.

Example 1:

```
Input: words = ["adc","wzy","abc"]
Output: "abc"
Explanation:
- The difference integer array of "adc" is [3 - 0, 2 - 3] = [3, -1].
- The difference integer array of "wzy" is [25 - 22, 24 - 25]= [3, -1].
- The difference integer array of "abc" is [1 - 0, 2 - 1] = [1, 1].
The odd array out is [1, 1], so we return the corresponding string, "abc".
```

Example 2:

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Input: words = ["aaa","bob","ccc","ddd"]
Output: "bob"
Explanation: All the integer arrays are [0, 0] except for "bob", which corresponds to [13, −13].
```

Constraints:

- 3 <= words.length <= 100
- n == words[i].length
- 2 <= n <= 20
- words[i] consists of lowercase English letters.