Problem 599: Minimum Index Sum of Two Lists

Problem Information

Difficulty: Easy
Acceptance Rate: 58.94%
Paid Only: No
Tags: Array, Hash Table, String

Problem Description

Given two arrays of strings `list1` and `list2`, find the **common strings with the least index sum**.

A **common string** is a string that appeared in both `list1` and `list2`.

A **common string with the least index sum** is a common string such that if it appeared at `list1[i]` and `list2[j]` then `i + j` should be the minimum value among all the other **common strings**.

Return _all the**common strings with the least index sum**_. Return the answer in **any order**.

Example 1:

Input: list1 = ["Shogun","Tapioca Express","Burger King","KFC"], list2 = ["Piatti","The Grill at Torrey Pines","Hungry Hunter Steakhouse","Shogun"] **Output:** ["Shogun"] **Explanation:** The only common string is "Shogun".

Example 2:

Input: list1 = ["Shogun","Tapioca Express","Burger King","KFC"], list2 = ["KFC","Shogun","Burger King"] **Output:** ["Shogun"] **Explanation:** The common string with the least index sum is "Shogun" with index sum = (0 + 1) = 1.

Example 3:

Input: list1 = ["happy","sad","good"], list2 = ["sad","happy","good"] **Output:** ["sad","happy"] **Explanation:** There are three common strings: "happy" with index sum = (0 + 1) = 1. "sad" with index sum = (1 + 0) = 1. "good" with index sum = (2 + 2) = 4. The strings with the least index sum are "sad" and "happy".

Constraints:

* `1 <= list1.length, list2.length <= 1000` * `1 <= list1[i].length, list2[i].length <= 30` * `list1[i]` and `list2[i]` consist of spaces `' '` and English letters. * All the strings of `list1` are **unique**. * All the strings of `list2` are **unique**. * There is at least a common string between `list1` and `list2`.

Code Snippets

C++:

```
class Solution {
public:
vector<string> findRestaurant(vector<string>& list1, vector<string>& list2) {

}
};
```

Java:

```
class Solution {
public String[] findRestaurant(String[] list1, String[] list2) {

}
}
```

Python3:

```
class Solution:
def findRestaurant(self, list1: List[str], list2: List[str]) -> List[str]:
```