

Problem 2215: Find the Difference of Two Arrays

Problem Information

Difficulty: Easy

Acceptance Rate: 81.14%

Paid Only: No

Tags: Array, Hash Table

Problem Description

Given two **0-indexed** integer arrays `nums1` and `nums2`, return _a list_ `answer` _of size_ `2` _where:_

* `answer[0]` _is a list of all**distinct** integers in_ `nums1` _which are**not** present in_ `nums2` _._ * `answer[1]` _is a list of all**distinct** integers in_ `nums2` _which are**not** present in_ `nums1` .

Note that the integers in the lists may be returned in **any** order.

Example 1:

Input: nums1 = [1,2,3], nums2 = [2,4,6] **Output:** [[1,3],[4,6]] **Explanation:** For nums1, nums1[1] = 2 is present at index 0 of nums2, whereas nums1[0] = 1 and nums1[2] = 3 are not present in nums2. Therefore, answer[0] = [1,3]. For nums2, nums2[0] = 2 is present at index 1 of nums1, whereas nums2[1] = 4 and nums2[2] = 6 are not present in nums1. Therefore, answer[1] = [4,6].

Example 2:

Input: nums1 = [1,2,3,3], nums2 = [1,1,2,2] **Output:** [[3],[]] **Explanation:** For nums1, nums1[2] and nums1[3] are not present in nums2. Since nums1[2] == nums1[3], their value is only included once and answer[0] = [3]. Every integer in nums2 is present in nums1. Therefore, answer[1] = [].

Constraints:

```
* `1 <= nums1.length, nums2.length <= 1000` * `-1000 <= nums1[i], nums2[i] <= 1000`
```

Code Snippets

C++:

```
class Solution {  
public:  
    vector<vector<int>> findDifference(vector<int>& nums1, vector<int>& nums2) {  
  
    }  
};
```

Java:

```
class Solution {  
    public List<List<Integer>> findDifference(int[] nums1, int[] nums2) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def findDifference(self, nums1: List[int], nums2: List[int]) ->  
        List[List[int]]:
```