2.You are given two integer arrays nums1 and nums2 of sizes n and m, respectively. Calculate the following values: answer1 : the number of indices i such that nums1[i] exists in nums2. answer2 : the number of indices i such that nums2[i] exists in nums1 Return [answer1,answer2].

Example 1:
Input: nums1 = [2,3,2], nums2 = [1,2]
Output: [2,1]
Explanation:

Example 2:
Input: nums1 = [4,3,2,3,1], nums2 = [2,2,5,2,3,6]
Output: [3,4]
Explanation:
The elements at indices 1, 2, and 3 in nums1 exist in nums2 as well. So answer1 is 3.
The elements at indices 0, 1, 3, and 4 in nums2 exist in nums1. So answer2 is 4.

A. **Program:**

```
def countIndices(nums1, nums2):
    answer1 = 0
    answer2 = 0

    set_nums1 = set(nums1)
    set_nums2 = set(nums2)

    for num in nums1:
        if num in set_nums2:
            answer1 += 1

    for num in nums2:
        if num in set_nums1:
            answer2 += 1

    return [answer1, answer2]

# Function to create a set from a list of numbers
def createSet(nums):
    return set(nums)

# Example usage:
nums1 = [2, 3, 2]
nums2 = [1, 2]
print(countIndices(nums1, nums2))  # Output: [2, 1]
```

**Output:**

```
[2, 1]

=== Code Execution Successful ===
```

**Timecomplexity**:O(n+m)