

# Problem 3400: Maximum Number of Matching Indices After Right Shifts

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 84.22%

**Paid Only:** Yes

**Tags:** Array, Two Pointers, Simulation

## Problem Description

You are given two integer arrays, `nums1` and `nums2`, of the same length.

An index `i` is considered \*\*matching\*\* if `nums1[i] == nums2[i]`.

Return the \*\*maximum\*\* number of \*\*matching\*\* indices after performing any number of \*\*right shifts\*\* on `nums1`.

A \*\*right shift\*\* is defined as shifting the element at index `i` to index `(i + 1) % n`, for all indices.

**Example 1:**

**Input:** nums1 = [3,1,2,3,1,2], nums2 = [1,2,3,1,2,3]

**Output:** 6

**Explanation:**

If we right shift `nums1` 2 times, it becomes `[1, 2, 3, 1, 2, 3]`. Every index matches, so the output is 6.

**Example 2:**

**Input:** nums1 = [1,4,2,5,3,1], nums2 = [2,3,1,2,4,6]

**\*\*Output:\*\*** 3

**\*\*Explanation:\*\***

If we right shift `nums1` 3 times, it becomes `[5, 3, 1, 1, 4, 2]`. Indices 1, 2, and 4 match, so the output is 3.

**\*\*Constraints:\*\***

\* `nums1.length == nums2.length` \* `1 <= nums1.length, nums2.length <= 3000` \* `1 <= nums1[i], nums2[i] <= 10^9`

## Code Snippets

**C++:**

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

**Java:**

```
class Solution {  
public int maximumMatchingIndices(int[] nums1, int[] nums2) {  
  
}  
}
```

**Python3:**

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