

# 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] <= 109`

## 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:
```