

819. Minimum Swaps To Make Sequences Increasing

Difficulty : Hard

<https://leetcode.com/problems/minimum-swaps-to-make-sequences-increasing>

You are given two integer arrays of the same length `nums1` and `nums2`. In one operation, you are allowed to swap `nums1[i]` with `nums2[i]`.

- For example, if `nums1 = [1,2,3,8]`, and `nums2 = [5,6,7,4]`, you can swap the element at `i = 3` to obtain `nums1 = [1,2,3,4]` and `nums2 = [5,6,7,8]`.

Return *the minimum number of needed operations to make* `nums1` *and* `nums2` **strictly increasing**. The test cases are generated so that the given input always makes it possible.

An array `arr` is **strictly increasing** if and only if `arr[0] < arr[1] < arr[2] < ... < arr[arr.length - 1]`.

Example 1:

Input: `nums1 = [1,3,5,4]`, `nums2 = [1,2,3,7]`

Output: 1

Explanation:

Swap `nums1[3]` and `nums2[3]`. Then the sequences are:

`nums1 = [1, 3, 5, 7]` and `nums2 = [1, 2, 3, 4]`

which are both strictly increasing.

Example 2:

Input: `nums1 = [0,3,5,8,9]`, `nums2 = [2,1,4,6,9]`

Output: 1

Constraints:

- $2 \leq \text{nums1.length} \leq 10^5$
- `nums2.length == nums1.length`
- $0 \leq \text{nums1}[i], \text{nums2}[i] \leq 2 * 10^5$