

496. Next Greater Element I

Easy

👍 2620

💬 3029

♡ Add to List

🔗 Share

You are given two integer arrays `nums1` and `nums2` both of **unique** elements, where `nums1` is a subset of `nums2`.

Find all the next greater numbers for `nums1`'s elements in the corresponding places of `nums2`.

The Next Greater Number of a number `x` in `nums1` is the first greater number to its right in `nums2`. If it does not exist, return `-1` for this number.

Example 1:

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

Output: `[-1,3,-1]`

Explanation:

For number 4 in the first array, you cannot find the next greater number for it in the second array, so output -1.

For number 1 in the first array, the next greater number for it in the second array is 3.

For number 2 in the first array, there is no next greater number for it in the second array, so output -1.

Example 2:

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

Output: `[3,-1]`

Explanation:

For number 2 in the first array, the next greater number for it in the second array is 3.

For number 4 in the first array, there is no next greater number for it in the second array, so output -1.

Constraints:

- `1 <= nums1.length <= nums2.length <= 1000`
- `0 <= nums1[i], nums2[i] <= 104`
- All integers in `nums1` and `nums2` are **unique**.
- All the integers of `nums1` also appear in `nums2`.

Follow up: Could you find an `O(nums1.length + nums2.length)` solution?

Related Topics



Stack

Similar Questions



Next Greater Element II

Medium

Next Greater Element III

Medium

Daily Temperatures

Medium