

496. Next Greater Element I

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Total Accepted: **3480** Total Submissions: **5776** Difficulty: **Easy** Contributors: **love_FDU_llp** (/love_fdu_llp/)

[Notes](#)

You are given two arrays (**without duplicates**) `nums1` and `nums2` where `nums1`'s elements are 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, output `-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.
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.

Note:

1. All elements in `nums1` and `nums2` are unique.
2. The length of both `nums1` and `nums2` would not exceed 1000.

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Python



```
1 class Solution(object):
2     def nextGreaterElement(self, findNums, nums):
3         """
4         :type findNums: List[int]
5         :type nums: List[int]
6         :rtype: List[int]
7         """
8         length=len(findNums)
9         pos=[-1]*length
10        for j in range(length):
11            index=nums.index(findNums[j])
12            for i in range(index+1,len(nums)):
13                if nums[i]>findNums[j]:
14                    pos[j]=nums[i]
15                    break
16        return pos
17
18
```

Notes

Custom Testcase ☐

Contribute Testcase ?

Shortcut: Ctrl + '

Run Code

Submit Solution

Run Code Status: Finished

Run Code Result:



Your input

```
[4,1,2]
[1,3,4,2]
```

Your answer

```
[-1,3,-1]
```

Expected answer

```
[-1,3,-1]
```

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