Telerik Academy

PROBLEMS   SUBMISSIONS   USERS   CONTESTS   ABOUT   HELLO, **YAVORYANKOV83**.

Java May'19 DSA Linear 2 - 09:51:43

✔ Greater Number

You are given two arrays (**without duplicates**) **nums1** and **nums2** where **nums1**'s elements are subset of **nums2** (nums2 contains the elements of nums1). For each number in nums1, find the next greater number in **nums2**.

The Next Greater Number of a number **x** in **nums1** is the first greater number to its right in **nums2** (see examples for explanation). If it does not exist, output -1 for this number.

Input

- It will consist of two lines
- On the first line, there will be numbers in the array nums1, separated by comma.
- On the second line, there will be numbers in the array nums2, separated by comma.

Output

- Print the result on the standard output
- The result should be the numbers, separated by comma.

Constraints

- All elements in **nums1** and **nums2** are unique.
- The length of both **nums1** and **nums2** would not exceed 1000.

Sample tests

Input

```
4,1,2
1,3,4,2
```

Submit solution

My submissions
All submissions
Best submissions

✔ **Points:** 100 (partial)
🕐 **Time limit:** 0.5s
▤ **Memory limit:** 32M
✎ **Author:**
   donchominkov

🏷 **Tags**
Linear Data Structures
⬆ **Difficulty**
Intermediate

⌄ **Allowed languages**
   java

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```
-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.

Input

```
2,4
1,2,3,4
```

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Output

```
3,-1
```

Copy

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.

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