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## 2657. Find the Prefix Common Array of Two Arrays

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You are given two **0-indexed** integer permutations A and B of length n.

A prefix common array of A and B is an array C such that C[i] is equal to the count of numbers that are present at or before the index  $\,i\,$  in both  $\,A\,$  and  $\,B\,$ .

Return the prefix common array of A and B.

A sequence of n integers is called a **permutation** if it contains all integers from 1 to n exactly once.

User Accepted:	9127
User Tried:	9520
Total Accepted:	9347
Total Submissions:	12227
Difficulty:	Medium

## Example 1:

```
Input: A = [1,3,2,4], B = [3,1,2,4]
Output: [0,2,3,4]
Explanation: At i = 0: no number is common, so C[0] = 0.
At i = 1: 1 and 3 are common in A and B, so C[1] = 2.
At i = 2: 1, 2, and 3 are common in A and B, so C[2] = 3.
At i = 3: 1, 2, 3, and 4 are common in A and B, so C[3] = 4.
```

## Example 2:

```
Input: A = [2,3,1], B = [3,1,2]
Output: [0,1,3]
Explanation: At i = 0: no number is common, so C[0] = 0.
At i = 1: only 3 is common in A and B, so C[1] = 1.
At i = 2: 1, 2, and 3 are common in A and B, so C[2] = 3.
```

## **Constraints:**

- 1 <= A.length == B.length == n <= 50
- 1 <= A[i], B[i] <= n
- It is guaranteed that A and B are both a permutation of n integers.

Discuss (https://leetcode.com/problems/find-the-prefix-common-array-of-two-arrays/discuss)

```
JavaScript
                                                                                                                              क
                                                                                                                                    \mathfrak{C}
1 ▼ const findThePrefixCommonArray = (a, b) => {
2
        let sa = new Set(), sb = new Set(), used = new Set(), cnt = 0, res = [];
        a.map((x, i) \Rightarrow {
3 ,
 4
             sa.add(x);
 5
             sb.add(b[i]);
 6
             if (sa.has(b[i]) && !used.has(b[i])) {
 7
                  used.add(b[i]);
 8
 9
10 ▼
             if (sb.has(x) \&\& !used.has(x)) {
11
                  cnt++:
12
                  used.add(x);
13
14
             res.push(cnt);
15
        });
16
        return res;
17
    };
```

Custom Testcase Use Example Testcases

Submission Result: Accepted (/submissions/detail/948645777/) More Details ➤ (/submissions/detail/948645777/)

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