2657. Find the Prefix Common Array of Two Arrays

Solved ●

Medium   🏷 Topics   🏢 Companies   💡 Hint

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.

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.

Seen this question in a real interview before?   1/5

Yes   No

Accepted **201.5K**   Submissions **229.8K**   Acceptance Rate **87.7%**

Topics   ⌄

Companies   ⌄

Hint 1   ⌄

Hint 2   ⌄

Discussion (236)   ⌄