

100229. Find the Length of the Longest Common Prefix

[My Submissions \(/contest/weekly-contest-385/problems/find-the-length-of-the-longest-common-prefix/submissions/\)](#)

[Back to Contest \(/contest/weekly-contest-385/\)](#)

You are given two arrays with **positive** integers `arr1` and `arr2`.

A **prefix** of a positive integer is an integer formed by one or more of its digits, starting from its **leftmost** digit. For example, `123` is a prefix of the integer `12345`, while `234` is **not**.

A **common prefix** of two integers `a` and `b` is an integer `c`, such that `c` is a prefix of both `a` and `b`. For example, `5655359` and `56554` have a common prefix `565` while `1223` and `43456` **do not** have a common prefix.

You need to find the length of the **longest common prefix** between all pairs of integers (x, y) such that `x` belongs to `arr1` and `y` belongs to `arr2`.

Return the length of the **longest** common prefix among all pairs. If no common prefix exists among them, return `0`.

User Accepted:	3193
User Tried:	7744
Total Accepted:	3236
Total Submissions:	14763
Difficulty:	Medium

Example 1:

Input: `arr1 = [1,10,100]`, `arr2 = [1000]`
Output: `3`
Explanation: There are 3 pairs $(arr1[i], arr2[j])$:
- The longest common prefix of $(1, 1000)$ is `1`.
- The longest common prefix of $(10, 1000)$ is `10`.
- The longest common prefix of $(100, 1000)$ is `100`.
The longest common prefix is `100` with a length of `3`.

Example 2:

Input: `arr1 = [1,2,3]`, `arr2 = [4,4,4]`
Output: `0`
Explanation: There exists no common prefix for any pair $(arr1[i], arr2[j])$, hence we return `0`.
Note that common prefixes between elements of the same array do not count.

Constraints:

- `1 <= arr1.length, arr2.length <= 5 * 104`
- `1 <= arr1[i], arr2[i] <= 108`

Java

```
1 class Solution {
2     public int longestCommonPrefix(int[] arr1, int[] arr2) {
3
4     }
5 }
```

☐ Custom Testcase


Use Example Testcases

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