

16.12.21, 19:50

Maximum Distance in Arrays - LeetCode

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LeetCode Coding Challenge + GIVEAWAY!

Description

Solution

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624. Maximum Distance in Arrays

Medium

561

61

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You are given m arrays , where each array is sorted in **ascending order**.

You can pick up two integers from two different arrays (each array picks one) and calculate the distance. We define the distance between two integers a and b to be their absolute difference $|a - b|$.

Return *the maximum distance*.

Example 1:

Input: arrays = [[1,2,3],[4,5],[1,2,3]]

Output: 4

Explanation: One way to reach the maximum distance 4 is to pick 1 in the first or third array and pick 5 in the second array.

Example 2:

Input: arrays = [[1],[1]]

Output: 0

Example 3:

Input: arrays = [[1],[2]]

Output: 1

Example 4:

Input: arrays = [[1,4],[0,5]]

Output: 4

Constraints:

- $m == \text{arrays.length}$
- $2 \leq m \leq 10^5$
- $1 \leq \text{arrays}[i].\text{length} \leq 500$
- $-10^4 \leq \text{arrays}[i][j] \leq 10^4$
- $\text{arrays}[i]$ is sorted in **ascending order**.
- There will be at most 10^5 integers in all the arrays.

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Submissions 82,112

Seen this question in a real interview before?

YesNo

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class Solution {

public int maxDistance(List<List<Integer>> arrays) {

}

}

Problems

Pick One

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https://leetcode.com/problems/maximum-distance-in-arrays/

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