

Find the Number of Good Pairs I - LeetCode

笔记本: leetcode

创建时间: 2024/9/26 10:16

URL: <https://leetcode.com/problems/find-the-number-of-good-pairs-i/description/>

3162. Find the Number of Good Pairs I

You are given 2 integer arrays `nums1` and `nums2` of lengths `n` and `m` respectively. You are also given a **positive** integer `k`.

A pair (i, j) is called **good** if `nums1[i]` is divisible by `nums2[j] * k` ($0 \leq i \leq n - 1$, $0 \leq j \leq m - 1$).

Return the total number of **good** pairs.

Example 1:

Input: `nums1 = [1,3,4]`, `nums2 = [1,3,4]`, `k = 1`

Output: 5

Explanation:

The 5 good pairs are $(0, 0)$, $(1, 0)$, $(1, 1)$, $(2, 0)$, and $(2, 2)$.

Example 2:

Input: `nums1 = [1,2,4,12]`, `nums2 = [2,4]`, `k = 3`

Output: 2

Explanation:

The 2 good pairs are $(3, 0)$ and $(3, 1)$.

Constraints:

- $1 \leq n, m \leq 50$
- $1 \leq \text{nums1}[i], \text{nums2}[j] \leq 50$
- $1 \leq k \leq 50$