6015. Count Array Pairs Divisible by K

My Submissions (/contest/weekly-contest-281/problems/count-array-pairs-divisible-by-k/submissions/) Back to Contest (/contest/weekly-contest-281/) Given a **0-indexed** integer array nums of length n and an integer k , return the number of pairs (i, j) such that: User Accepted: 0 • $0 \le i \le j \le n - 1$ and User Tried: 0 • nums[i] * nums[j] is divisible by k . **Total Accepted:** 0 Example 1: **Total Submissions:** 0 **Input:** nums = [1,2,3,4,5], k = 2 Difficulty: (Hard) Output: 7 **Explanation:** The 7 pairs of indices whose corresponding products are divisible by 2 are (0, 1), (0, 3), (1, 2), (1, 3), (1, 4), (2, 3), and (3, 4). Their products are 2, 4, 6, 8, 10, 12, and 20 respectively. Other pairs such as (0, 2) and (2, 4) have products 3 and 15 respectively, which are not div

Example 2:

```
Input: nums = [1,2,3,4], k = 5
Output: 0
Explanation: There does not exist any pair of indices whose corresponding product is divisible by 5.
```

Constraints:

- 1 <= nums.length <= 10^5
- 1 <= nums[i], $k <= 10^5$

```
JavaScript
    const gcd = (a, b) \Rightarrow b == 0 ? a : gcd(b, a % b);
2
3 •
    const coutPairs = (a, k) \Rightarrow \{
 4
        let n = a.length, f = Array(1e5 + 1).fill(0), gcdData = [], res = 0;
5 •
        for (const x of a) {
6
             let g = gcd(x, k);
7 ,
             for (const y of gcdData) {
8
                 if (g * y % k == 0) res += f[y];
9
10
             if (f[g] == 0) gcdData.push(g);
11
             f[g]++;
12
13
        return res;
14
    };
```

☐ Custom Testcase

Shortcut: Command + '





Use Example Testcases

Submission Result: Accepted (/submissions/detail/645044002/) @

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