1726. Tuple with Same Product

Solved ●

Medium Topics Companies Hint

Given an array `nums` of **distinct** positive integers, return *the number of tuples* `(a, b, c, d)` *such that* `a * b = c * d` *where* `a`, `b`, `c`, *and* `d` *are elements of* `nums`, *and* `a != b != c != d`.

Example 1:

> **Input:** nums = [2,3,4,6]
> **Output:** 8
> **Explanation:** There are 8 valid tuples:
> (2,6,3,4) , (2,6,4,3) , (6,2,3,4) , (6,2,4,3)
> (3,4,2,6) , (4,3,2,6) , (3,4,6,2) , (4,3,6,2)

Example 2:

> **Input:** nums = [1,2,4,5,10]
> **Output:** 16
> **Explanation:** There are 16 valid tuples:
> (1,10,2,5) , (1,10,5,2) , (10,1,2,5) , (10,1,5,2)
> (2,5,1,10) , (2,5,10,1) , (5,2,1,10) , (5,2,10,1)
> (2,10,4,5) , (2,10,5,4) , (10,2,4,5) , (10,2,5,4)
> (4,5,2,10) , (4,5,10,2) , (5,4,2,10) , (5,4,10,2)

Constraints:

- `1 <= nums.length <= 1000`
- `1 <= nums[i] <= 10^4`
- All elements in `nums` are **distinct**.

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

Yes No

Accepted 180.1K Submissions 256.5K Acceptance Rate 70.2%

Topics

Companies

Hint 1

Hint 2

Discussion (224)