1726. Tuple with Same Product

Description

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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 .
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Example 1:

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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.