Logo

STUDENT REPORT

DETAILS

Name

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Roll Number

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EXPERIMENT

Title

NUMBER OF COMBINATIONS LEADING TO A PRODUCT

Description

Problem Statement:

You are given an array arr and a product m. Your task is to find the number of possible unique triplets whose product of elements is m.

Input Format:

- The first line contains the integer, n
- The second line contains space seperated integers of the array, arr
- The third line contains the product m.

The input will be read from the STDIN by the candidate

Output Format:

The output consists of a single integer, i.e. the count of unique triplets having product m.

The output will be matched to the candidate's output printed on the STDOUT

Example:

Input:

7

5 3 20 10 1 4 2

60

Output:

3

Explanation:

Product m:60

Possible triplets for product m: (5,4,3),(20,3,1), (10,3,2)

The count of unique triplets is 3.

Source Code:

```
def count_triplets_with_product(arr,n,m):
    count=0

    for i n range(n):
        for j in range(i+1,n):
            for k in range(j+1,n):
                if arr[i]*arr[j]*arr[k]==m:
                    count+=1
    return count

n=int(input())
arr=list(map(int,input().split()))
m=int(input())
print(count_triplets_with_product(arr,n,m))
```

RESULT

0 / 6 Test Cases Passed | 0 %