FIBL

4033



STUDENT REPORT

DETAILS

Name

D M ISAQ

Roll Number

KUB23CSE033

EXPERIMENT

Title

NUMBER OF COMBINATIONS (FADING 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:

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1/2

```
def count_unique_triplets(arr, m):
   n = len(arr)
   triplets = set()
   arr.sort()
   for i in range(n):
       for j in range(i + 1, n):
           for k in range(j + 1, n):
               product = arr[i] * arr[j] * arr[k]
               if product == m:
                   triplet = tuple(sorted((arr[i], arr[j], arr[k])))
                   triplets.add(triplet)
    return len(triplets)
import sys
input = sys.stdin.read
data = input().splitlines()
n = int(data[0])
arr = list(map(int, data[1].split()))
m = int(data[2])
result = count_unique_triplets(arr, m)
print(result)
```

6 / 6 Test Cases Passed | 100 %