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DETAILS

Name

MANASA K

Roll Number

3BR23EC090

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:

https://practice.reinprep.com/student/get-report/df278011-7b5c-11ef-ae9a-0e411ed3c76b

```
def count_triples(arr,n,m):
        unique_triples=set()
        for i in range(n):
            for j in range(i+1,n):
                for k in range(j+1,n):
                    if arr[i]*arr[j]*arr[k]==m:
                        triples=tuple(sorted([arr[i],arr[j],arr[k]]))
                        unique_triples.add(triples)
        return len(unique_triples)
    n=int(input())
    arr=list(map(int,input().split()))
    m=int(input())
    result=count_triples(arr,n,m)
    print(result)
RESULT
 6 / 6 Test Cases Passed | 100 %
```