

STUDENT REPORT

DETAILS

Name ~

RUHI NAZ N S

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:

5 3 20 10 1 4 2

60

3CA085 38R235 3

Explanation:

Product m:60

3CA0853BR23CA08553BR23CA0855BR23CA085BR23CA0855BR23CA0855BR23CA0855BR23CA0855BR23CA0855BR23CA0855BR23CA0855BR23CA0855BR23CA0855BR23CA0855BR23CA0855BR23CA0855BR23CA085 Possible triplets for product m: (5,4,3),(20,3,1), (10,3,2)

The count of unique triplets is 3.

Roll Number

3BR23CA085

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Source Code:
def count_triplets(arr,n,m):
    unique_triplets=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:
                    triplet=tuple(sorted([arr[i],arr
[j],arr[k]]))
                    unique_triplets.add(triplet)
    return len(unique_triplets)
n=int(input())
arr=list(map(int,input().split()))
m=int(input())
result=count_triplets(arr,n,m)
print(result)
```

A085 3BR23CA085 3BR23C

538R23CA0853BR23CA085BR23CA08

882³CA08⁵ 382³CA08⁵ 382³ CA08⁵ C

RESULT

6 / 6 Test Cases Passed | 100 %

BRIL.

3 BRV

BB Say

3233 A.V.