

DETAILS

B VASUDEVA REDDY

Roll Number

KUB23CSE019

EXPERIMEN

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.

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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.

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

Example:

Input:

5 3 20 10 1 4 2

60

Output:

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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```
def count_triplets_with_product(arr, n, m):
        count = 0
        # Check every combination of triplets
        for i in range(n):
            for j in range(i + 1, n):
                for k in range(j + 1, n):
                    \# If the product of triplet is equal to m
                    if arr[i] * arr[j] * arr[k] == m:
                        count += 1
        return count
    # Reading input
    n = int(input()) # Read the size of the array
    arr = list(map(int, input().split())) # Read the array elements
    m = int(input()) # Read the target product
    # Output the result
    print(count_triplets_with_product(arr, n, m))
RESULT ?
  6 / 6 Test Cases Passed | 100 \%
```