TIB,

407



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# DETAILS

B BASAVARAJA REDDY

# Roll Number 👇

KUB23CSE015

# **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.

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:

7

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:**

https://practice.reinprep.com/student/get-report/ffe61ef5-7bf4-11ef-ae9a-0e411ed3c76b

```
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
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
                                                                                                           ~ (SEO) 5 KUB23 1
print(count_triplets_with_product(arr, n, m))
```

**RESULT** 

6 / 6 Test Cases Passed | 100 %

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