FUBIL



# **DETAILS**

SHRUSHTI ASHOK BUDIHAL

### Roll Number 🔑

KUB23CSE135

## **EXPERIMENT**

# STitle

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/9f610e3c-7c1d-11ef-ae9a-0e411ed3c76b

```
n=int(input())
    arr=list(map(int,input().split()))
    m=int(input())
    prod=0
    s=[]
    count=0
    for i in range(0,len(arr)-2):
        for j in range(i+1,len(arr)-1):
            for k in range(j+1,len(arr)):
                prod=arr[i]*arr[j]*arr[k]
                if prod==m:
                    count+=1
                    s.append(arr[i])
                    s.append(arr[j])
                    s.append(arr[k])
    print(count)
RESULT
  6 / 6 Test Cases Passed | 100 %
```