



# STUDENT REPORT

## DETAILS

### Name

G.V.Varun

### Roll Number

3BR23ME005

## 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 separated 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:

```
n=int(input())

l=list(map(int,input().split()))

p=int(input())
c=0
for i in range(0,n):
    for j in range(i+1,n):
        for k in range(j+1,n):
            if l[i]*l[j]*l[k]==p:
                c+=1
print(c)
```

## RESULT

6 / 6 Test Cases Passed | 100 %