# STUDENT REPORT

## DETAILS

### Name

K govardhan reddy

### Roll Number

22BI24ME438-T

## 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:

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 %

```
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for i in range (0,N):
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