

Logo



## STUDENT REPORT

### DETAILS

**Name**

A VARUN KUMAR

**Roll Number**

22BI24ME460-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 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 14 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 %

24N

2-T

24N

2-T