



# STUDENT REPORT

## DETAILS

Name

NITIN NARENDRA GHANMODE

Roll Number

3BR23ME014

## 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 %