## STUDENT REPORT Roll Number 23D21AC 3

## DETAILS Name SAMALA JAHNAVI EXI) Title **EXPERIMENT**

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:

5 3 20 10 1 4 2

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.

ASHA 23D2LASEHA RESULT 6 / 6 Test Cases Passed | 100 % Source Code:

2301

from itertools import combinations n= int(input()) arr = list(map(int,input().split())) m= int(input())

count = sum(1 for triplet in combinations(arr,3) if tr iplet[0]\*triplet[1]\*triplet[2] == m) print(count)