| Logo STUDENT REPORT AND | |
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| THE STUDENT REPORT | |
| DETAILS Name Preetham Preetham | JBV JBV |
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| TUE Roll Number 101 823CT 14 CSET LUBY (101 23CT 14) | 0. |
| KUB23CSE107 | 1478 |
| KUB23CSE107 EXPERIMENT, 13 CSEL 10 LUB 13 CSEL 10 | acsk. |
| NUMBER OF COMBINATIONS LEADING TO A PRODUCT | ,23 |
| NUMBER OF COMBINATIONS LEADING TO A PRODUCT Description Problem Statement: | £101 K |
| 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: | C |
| Input Format: | N8230 |
| The first line contains the integer, n The second line contains space congreted integers of the array array. | csE101 |
| The input will be read from the STDIN by the candidate | S |
| Output Format: | |
| The output consists of a single integer, i.e. the count of unique triplets having product m. | 1 FUBS |
| The output will be matched to the candidate's output printed on the STDOUT | 5/ |
| Example: Input: | <u>_</u> ^ |
| Input: | 323051 |
| 7 √ | , |
| 5 3 20 10 1 4 2 60 | K. |
| S 60 | Freik |
| Output: | , î |
| File Joseph 3 | 232 |
| Explanation: | 730 |
| Product m:60 | |
| Possible triplets for product m: (5,4,3),(20,3,1), (10,3,2) | CF 783 |
| The count of unique triplets is 3. | Ša, |
| Source Code: LUBD 3C5E101 LUBD 3C5 E101 LUBD | 118 1 8 E |

```
def count_triplets(arr, n, m):
       unique_triplets = set()
       for i in range(n):
           for j in range(i + 1, n):
               for k in range(j + 1, n):
                    if arr[i] * arr[j] * arr[k] == m:
                       triplet = tuple(sorted([arr[i], arr[j], arr[k]]))
                       unique_triplets.add(triplet)
       return len(unique_triplets)
   # Input Reading
   n = int(input())
   arr = list(map(int, input().split()))
   m = int(input())
   result = count_triplets(arr, n, m)
   print(result)
RESULT
 6 / 6 Test Cases Passed | 100 %
```

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