CS 180 385	STUDENT REPORT	, vo.
<u>p</u> Ē	ETAILS Name STUDENT REPORT VARUN SAGAR K G	36K13651
523BR	Name of the state	1823R
-	VARUN SAGAR K G	Jes'
5R13C514	Roll Number 38 38R23CS182	
	BEDINGENT OF THE STATE OF THE S	7838K
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ľ	NUMBER OF COMBINATIONS LEADING TO A PRODUCT	BR1303
SPRING	3BR23CS182 (PERIMENT) Ie NUMBER OF COMBINATIONS LEADING TO A PRODUCT Sescription Problem Statement:	°
	Froblem Statement.	518238
5R13C519	You are given an array arr and a product m. Your task is to find the number of possible unique triplets whose product of	
3R	Input Format:	523BR23
,C5\87.38	• The first line contains the integer, n	Strange Strange
	The input will be read from the STDIN by the candidate	32236
82 3BR23	Output Format:	
87	The output consists of a single integer, i.e. the count of unique triplets having product m.	CSADAR
	The output will be matched to the candidate's output printed on the STDOUT	,5
8R13C519	Example:	0
BRIL	Input:	82.38R23
.9	7	8
CS ABD 38	5 3 20 10 1 4 2	60
,	60	
900	Output:	Er.
3BR13	3	200
	Explanation:	C430 5
	Product m:60	, ,
	Possible triplets for product m: (5,4,3),(20,3,1), (10,3,2)	283
	The count of unique triplets is 3.	338 EV
S	Source Code: 3842 Source Code:	A CAST

```
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)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REPARENCE OF THE PROPERTY OF T
RESULT
         6 / 6 Test Cases Passed | 100 %
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