Logo STUDENT REPORT DETAILS J JAYALAKSHMI 2300 .003 SP 2'5 Roll Number 3BR23CD030 EXPERIMENT Title NUMBER OF COMBUNATIONS 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 38R23CO 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: 38273 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 3B223CO Example: 2230003 Input: 7 5 3 20 10 1 4 2 60 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. Source Code:

```
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 %
              .0030
  38R,
```