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Count Triplets ☆

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You are given an array and you need to find number of tripets of indices $(\pmb{i},\pmb{j},\pmb{k})$ such that the elements at those indices are in geometric progression for a given common ratio $m{r}$ and $m{i} < m{j} < m{k}$.

For example, arr=[1,4,16,64]. If r=4, we have [1,4,16] and [4,16,64] at indices (0,1,2) and (1,2,3).

Function Description

Complete the countTriplets function in the editor below. It should return the number of triplets forming a geometric progression for a given r as an integer. countTriplets has the following parameter(s):

- arr: an array of integers
- r: an integer, the common ratio

Input Format

The first line contains two space-separated integers n and r, the size of arr and the common ratio.

The next line contains $m{n}$ space-seperated integers $m{arr}[m{i}]$.

Constraints

- $1 \le n \le 10^5$
- $1 \le r \le 10^9$
- $1 \le arr[i] \le 10^9$

Output Format

Return the count of triplets that form a geometric progression.

Sample Input 0

4 2

1 2 2 4

Sample Output 0

2

Explanation 0

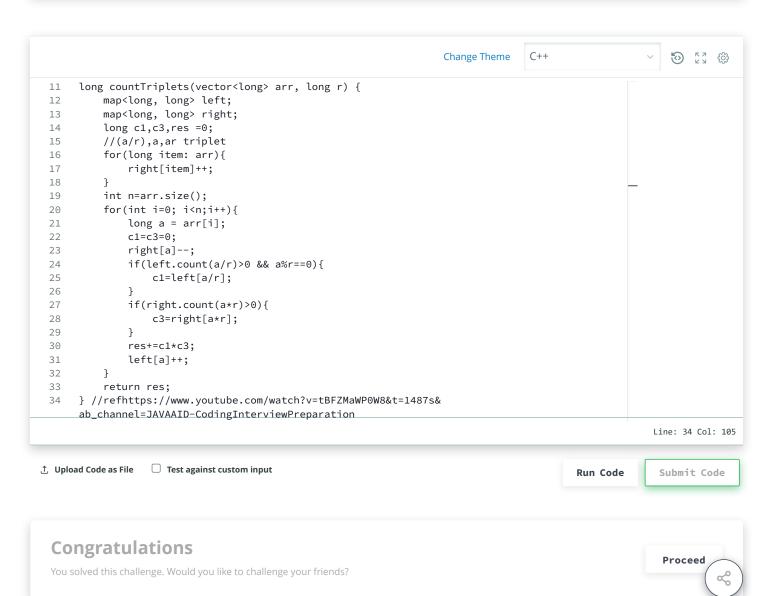
There are $oldsymbol{2}$ triplets in satisfying our criteria, whose indices are $oldsymbol{(0,1,3)}$ and $oldsymbol{(0,2,3)}$

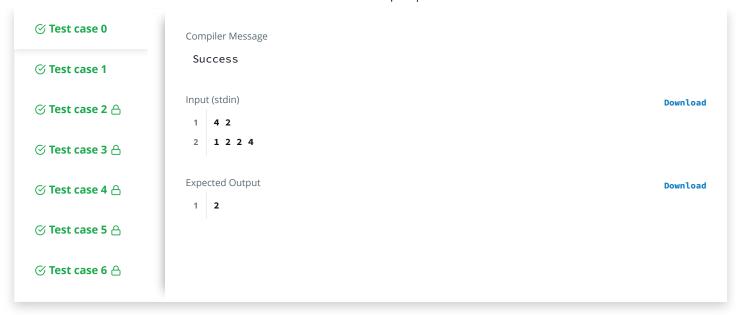
Sample Input 1

1 3 9 9 27 81



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Sample Output 1
  6
Explanation 1
The triplets satisfying are index (0,1,2), (0,1,3), (1,2,4), (1,3,4), (2,4,5) and (3,4,5).
Sample Input 2
  5 5
  1 5 5 25 125
Sample Output 2
  4
Explanation 2
The triplets satisfying are index (0,1,3), (0,2,3), (1,3,4), (2,3,4).
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