



03 Hr **19** Min **42** Sec

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ONLINE EDITOR (F)

Array Product

+ Problem Description

You are given a list of N integers and another positive integer K. Write a program to compute the number of ways in which the product P of the given N integers can be expressed as a product of K positive integers (not necessarily distinct). The order of the factors in the expression is not important. For example, $1 \times 2 \times 3$ and $2 \times 3 \times 1$ are not counted as different ways of expressing 6 as a product of three integers.

+ Constraints

The product of the N integers <= 10^9

Each of the N integers <= 5000

+ Input Format

First line contains two space separated integers, N and K

The next line contains N space separated integers

+ Output

One line containing the number of ways in which the product of the N integers can be expressed as a product of K positive integers

+

+ Explanation

Example 1

Input

24

23

Output

2

Explanation

The product of the given integers is 6. This can be expressed as a product of 4 integers in 2 ways: 1x1x1x6, 1x1x2x3

Example 2

Input

23

416

Output

7

Explanation

The product is 64. This can be expressed as a product of three integers in the following ways:

1 x 1 x 64

1 x 2 x 32

1 x 4 x 16

1 x 8 x 8

2 x 2 x 16

2 x 4 x 8

4 x 4 x 4

Upload Solution [Question : F]

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