

Problem Statement

Do you believe in ghosts? Citizens of Byteland do. They want to estimate the population size of ghosts in their country.

There are A towns in Byteland. Every town consists of B streets. Each street has C houses. Finally, there are D apartments in each house. All the towns, streets, houses and apartments are numbered starting from 1. So, every apartment has a corresponding address described by 4 numbers.

A ghost lives in a particular apartment only if all the conditions below are true:

- The difference between the town number and the street number is divisible by 3.
- The sum of the street number and the house number is divisible by 5.
- The product of the city number and the house number is divisible by 4.
- The greatest common divisor of the city number and the apartment number is 1.

You are given the numbers A , B , C , and D . How many ghosts live in Byteland?

Input Format

The first line contains 4 space-separated integers: A , B , C , D .

Constraints

$$1 \leq A, B, C, D \leq 60$$

Output Format

Output the answer to the problem on the first line.

Sample Input

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4 4 4 4
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Sample Output

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8
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Explanation

Here are the addresses of all the ghosts:

- 1 1 4 1
- 1 1 4 2
- 1 1 4 3
- 1 1 4 4
- 4 1 4 1
- 4 1 4 3

- 4 4 1 1

- 4 4 1 3