## Problem E. Grid Triangle

Input file:
Output file:
Time limit:
Memory limit:
standard input
standard output
1 second
1024 mebibytes

A grid triangle in the 3-dimensional grid system is a triangle of three integral points including the origin $(0,0,0)$ that satisfy the following property:

There exist three different positive integers $X, Y, Z$ such that for every pair of the three points of the triangle, you can rotate and translate the cuboid of size $X \times Y \times Z$ in parallel with the grid system so that the pair are diagonally opposite (and so the farthest way) vertices of the cuboid.

For instance, the triangle of the three points $(0,0,0),(1,2,3),(-2,3,1)$ is a grid triangle with the cuboid of size $1 \times 2 \times 3$. More specifically, the two points $(1,2,3),(-2,3,1)$ are the diagonally opposite vertices of the cuboid $\{(x, y, z) \mid-2 \leq x \leq 1,2 \leq y \leq 3,1 z \leq 3\}$ of size $3 \times 1 \times 2$; the two points $(0,0,0)$, $(1,2,3)$ are the diagonally opposite vertices of the cuboid $\{(x, y, z) \mid 0 \leq x \leq 1,0 \leq y \leq 2,0 \leq z \leq 3\}$ of size $1 \leq 2 \leq 3$; and the two points $(0,0,0),(-2,3,1)$ are the diagonally opposite vertices of the cuboid $\{(x, y, z) \mid-2 \leq x \leq 0,0 \leq y \leq 3,0 \leq z \leq 1\}$ of size $2 \times 3 \times 1$. Further, all three cuboids are parallel with the grid system.

Write a program to output the number of grid triangles within a bounded 3 -dimenional grid system. The grid system is bounded by three given positive integers, $A, B, C$, in such a way that all points of grid triangles should be within $\{(x, y, z) \mid-A \leq x \leq A,-B \leq y \leq B,-C \leq z \leq C\}$.

## Input

Your program is to read from standard input. The input is exactly one line containing three integers, $A$, $B, C\left(1 \leq A, B, C \leq 10^{7}\right)$.

## Output

Your program is to write to standard output. Print exactly one line. The line should contain the number of grid triangles in the 3 -dimensional grid system bounded by $A, B, C$.

## Examples

| standard input | standard output |  |
| :--- | :--- | :--- |
| 333 | 48 |  |
| 332 | 16 | 0 |
| 3 | 2 | 16 |

