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ONLINE EDITOR (A)

Distribute Candies

+ Problem Description

Charles has few candies with him, say X , which he wants to distribute equally among m , n and k number of students in a peculiar fashion. He wants I_1 candies to remain with him, when the candies are divided equally among m students. He wants I_2 candies to remain with him, when there are n students and I_3 when there are k students. Now given m , n , k and I_1, I_2 and I_3 , Charles needs to find minimum possible value of X

+ Constraints

 $0 \leq m, n, k, I_1, I_2, I_3 \leq 10^{10}$

+ Input Format

First line contains three space-separated integers, denoting values of m , n and k respectively

Second line contains three space-separated integers, denoting values of I_1 , I_2 , and I_3 respectively

+ Output

One Line containing minimum value of X , if possible else print -1

+ Test Case

+ Explanation

Example 1

Input

7 13 12
3 3 0

Output

276

Explanation

Here, 3, 3 and 0 candies should be left after distributing equal number of candies to group of 7, 13 and 12 respectively, 276 is the minimum number of candies required to satisfy the given condition.

Upload Solution [Question : A]

☐ I, **Christian** confirm that the answer submitted is my own.

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