

Problem C: Convenient Banknotes

- Time Limit: 2 sec

Problem Statement

In the Kingdom of JAG, only 1-yen banknotes have been issued so far. However, due to the increase in the circulation of banknotes, the kingdom has decided to renew its banknote system entirely. The new banknote system is represented by a sequence of positive integers $X = (X_1, X_2, \dots, X_k)$. This means that the new system uses k types of banknotes with denominations of X_1, X_2, \dots, X_k yen. You can decide the number of banknote types k and their values X_1, X_2, \dots, X_k under the following restrictions:

- k is a positive integer.
- $1 = X_1 < X_2 < \dots < X_k$.
- X_{i+1} must be a multiple of X_i ($1 \leq i \leq k - 1$).

In the Kingdom of JAG, goods are often traded at prices of A , B , or C yen. Therefore, the **inconvenience** of the new banknote system is defined as:

(The minimum number of banknotes required to represent A yen) + (The minimum number of banknotes required to represent B yen) + (The minimum number of banknotes required to represent C yen).

Your task is to find the minimum possible value of this inconvenience.

Input

The input is given in the following format:

$A \ B \ C$

- $1 \leq A < B < C \leq 10^8$
- All input values are integers.

Output

Output a single line with the minimum possible value of the inconvenience for the new banknote system.

Sample Input 1	Sample Output 1
6 11 15	6
Sample Input 2	Sample Output 2
99999959 99999971 99999989	11