Problem F. Flowering plants

Time Limit 1 second

Problem

I love plants. I love them so much that I raise exactly three plants in my garden. These plants have a regular pattern: the flowering of the i-th plant has a period of f_i . So this plant will flower on day f_i , day $2f_i$, day 3 f_i day, ..., and so on. I want to see all three plants flowered at once. So I would like to know the fastest date that all plants are flowered. Could you please make a program that calculates that for me?

For example:

PLANT	1	2	3	4	5	6	7	8	9	10	11	12	13
1			O			O			O			O	
2				O				O				O	
3						O						O	

The first plant flowers every 3 days, the second plant flowers every 4 days, and the third plant flowers every 6 days. The 12^{th} day is the fastest day that all plants are flowered.

Input

Your input consists of an arbitrary number of line, but no more than 10,000.
Each line consists of three integers f_1 , f_2 f_3 $(1 \le f_i \le 10^6)$, each separated by a space.
The end of input is indicated by a line containing only the value −1.

Output

For each input line, print the fastest date that all plants are flowered.

Sample Input 1	Sample Output 1
3 4 6 10 11 12 -1	12 660