Problem

You are given two arrays $a_1, a_2, \ldots, a_n$ and $b_1, b_2, \ldots, b_n$. In each step, you can set $a_i = a_i - b_i$ if $a_i \geq b_i$. Determine the minimum number of steps that are required to make all a's equal.

Input format

- First line: n
- Second line: $a_1, a_2, \ldots, a_n$
- Third line: $b_1, b_2, \ldots, b_n$

Output format

Print the minimum number of steps that are required to make all a's equal. If it is not possible, then print **-1**.

Constraints

$0 \leq n, a_i, b_i \leq 5000$

Sample input

25 64 3

Sample output

-1

Sample Input	Sample Output
5 5 7 10 5 15 2 2 1 3 5	8

Time Limit: 1

Memory Limit: 256

Source Limit: