









Problem: Week 3 - WATER JUGS

Description

There are two jugs, a-litres jug and b-litres jug (a, b are positive integers). There is a pump with unlimited water. Given a positive integer c, how to get exactly c litres.

Input

Line 1: contains positive integers a, b, c $(1 \le a, b, c \le 900)$

Output

write the number of steps or write -1 (if no solution found)

Example

Input

6 8 4

Output

4

Sample TestCase

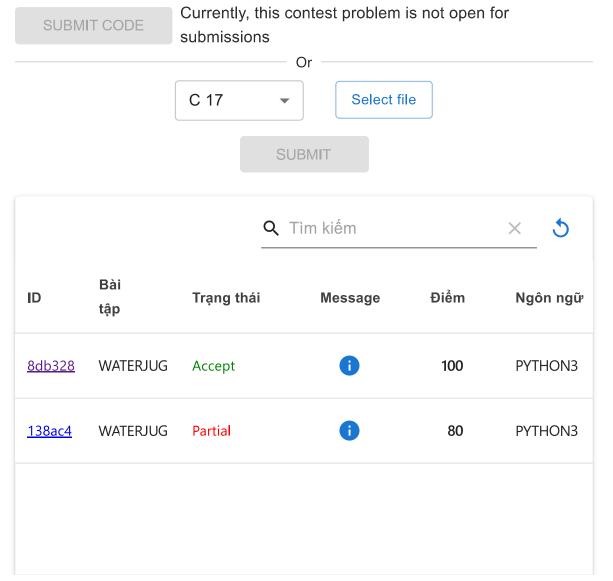
1 Write your Source code here

C 17

Source code

C 17

```
1 //C
2 #include <stdio.h>
3
4 int main()
5 {
6
7 }
```



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