**Snail**

Consider a snail travels up a tree a feet each day. Then snail slides down b feet each night. Height of the tree is h feet.

Please, proceed to Snail class and write a program that prints number of days for the snail to reach the top of the tree.

Program reads a, b, h line by line. Input values are guaranteed to be positive integers.

If the snail cannot reach the top of the tree, print the message Impossible.

Examples

Input:

4

2

14

Output:

6

Input:

4

3

10

Output:

7

Input:

4

4

10

Output:

Impossible

Input:

4

4

1

Output:

1

**Some test cases are failed**

import java.util.\*;

public class Snail

{

public static void main(String[] args)

{

Scanner userInput = new Scanner (System.in);

int a = userInput.nextInt();

int b = userInput.nextInt();

int h = userInput.nextInt();

int diff = a-b ;

if(h <= a){

System.out.println(1);

}else{

if(diff <= 0){

System.out.println("Impossible");

}else{

int temp = h/diff ;

if(h%diff != 0){

temp+=1 ;

}

System.out.println(temp);

}

}

}

}