# Problem L. Fibonacci Equation

Input file:	standard input
Output file:	standard output
Time limit:	1 second
Memory limit:	256 mebibytes

Bison Mike chose three consecutive Fibonacci numbers:  $F_n$ ,  $F_{n+1}$  and  $F_{n+2}$ , shuffled them and used as A, B and C in the quadratic equation

 $Ax^2 + Bx + C = 0$ 

Now Mike wants to know the number of different real root of this equation. Help him to find out the answer.

### Input

First line of the input consists of three integers i, j and k  $(0 \le i, j, k \le 10^9)$  — indices in the Fibonacci sequence; where  $A = F_i$ ,  $B = F_j$  and  $C = F_k$ . It is guaranteed that i, j and k are pairwise distinct and that difference between maximum and minimum of those integers is equal to 2.

## Output

Print one integer — number of different roots of the equation.

## Examples

standard input	standard output
1 2 0	2
1 0 2	0

### Note

Rules to build Fibonacci sequence:

 $F_0 = 0$  $F_1 = 1$  $F_i = F_{i-1} + F_{i-2}, \text{ where } i > 1$