## Problem L. Fibonacci Equation

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

$$
A x^{2}+B x+C=0
$$

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 $k\left(0 \leq i, j, k \leq 10^{9}\right)$ - 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 | 0 |
| 1 | 0 | 2 |  |  |

## Note

Rules to build Fibonacci sequence:

$$
\begin{gathered}
F_{0}=0 \\
F_{1}=1 \\
F_{i}=F_{i-1}+F_{i-2}, \text { where } i>1
\end{gathered}
$$

