How Many Steps?

Observe the diagram in $Figure\ 1$ depicting a path from the point of origin $O(0,0,0)$ to $P(2,1,2)$. This path contains five steps, namely: $(0,0,0) \rightarrow (1,0,0) \rightarrow (1,1,0) \rightarrow (2,1,0) \rightarrow (2,1,1) \rightarrow (2,1,2)$. Notice that in each step, only one value of either x, y, or z coordinate may be altered. In other words, the only allowed movement is one step along the x axis, one step along the y axis, or one step along the z axis. For example, the path in $Figure\ 1$ consists of a series of movements as follows: one step along x axis, one step along y axis, one step along x axis, one step along z axis, and one step along z axis.
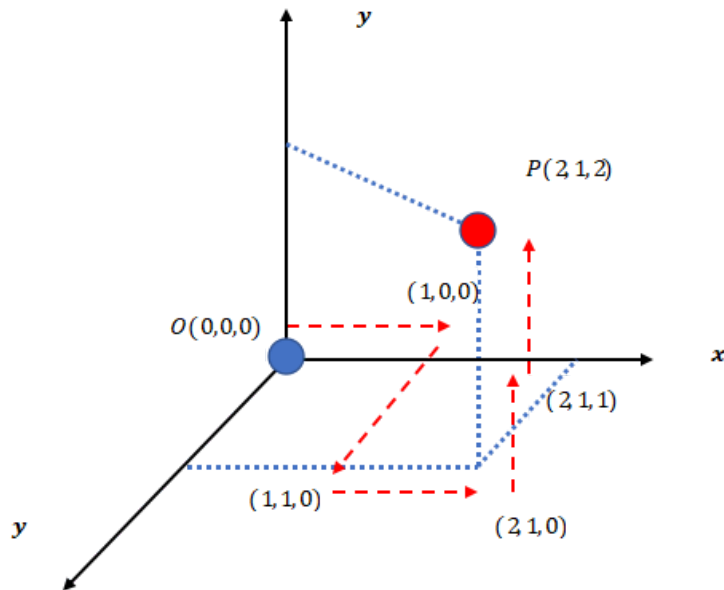

Figure 1 : The diagram depicting a path from $O(0,0,0)$ to $P(2,1,2)$.

Obviously, there are more than one possible path from $O(0,0,0)$ to $P(2,1,2)$. Three possible paths are as follows:

1. $(0,0,0) \rightarrow (1,0,0) \rightarrow (1,1,0) \rightarrow (2,1,0) \rightarrow (2,1,1) \rightarrow (2,1,2)$ (as depicted in $Figure\ 1$),

2. $(0,0,0) \rightarrow (1,0,0) \rightarrow (2,0,0) \rightarrow (2,1,0) \rightarrow (2,1,1) \rightarrow (2,1,2)$, and

3. $(0,0,0) \rightarrow (0,1,0) \rightarrow (1,1,0) \rightarrow (1,1,1) \rightarrow (1,1,2) \rightarrow (2,1,2)$.

In this problem, your task is to **determine the minimum number of steps** from the point $A(x_A, y_A, z_A)$ to point $B(x_B, y_B, z_B)$ given that $x_A, y_A, z_A, x_B, y_B, z_B$ are integers. Each step must be a movement along x axis, y axis, or z axis.

Input Format

The input consists of two lines, each line contains three integers separated by a space. The first line contains three integers x_A, y_A, and z_A depicting the coordinate for original point of the movement. The second line contains three integers x_B, y_B, and z_B describing the coordinate for the terminal point of the movement.

Constraints

$-10^6 \leq x_A, y_A, z_A, x_B, y_B, z_B \leq 10^6$

Output Format

Output is a number N depicting the minimum number of steps required from point $A(x_A, y_A, z_A)$ to $B(x_B, y_B, z_B)$.

Sample Input 0

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0 0 0
2 1 2
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Sample Output 0

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5
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Explanation 0

Based on the above problem description, the minimum number of steps required from point $A(0, 0, 0)$ to point $B(2, 1, 2)$ is 5.