Problem: Steps

One steps through integer points of the straight line. The length of a
step must be nonnegative and can be by one bigger than, equal to, or by
one smaller than the length of the previous step.

What is the minimum number of steps in order to get from x to y? The
length of the first and the last step must be 1.

Input and Output

Input consists of an arbitrary number of test cases, each on a separate
line. Each test case (i.e., input line) contains two integers x and y:
$0 <= x <= y < 2^{31}$. For each test case, print a line giving the minimum
number of steps to get from x to y.

Sample Input

45 48
45 49
45 50

Sample Output

3
3
4