# A. Add Odd or Subtract Even

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

You are given two positive integers a and b.

In one move, you can **change** a in the following way:

- Choose any positive **odd** integer x(x>0) and replace a with a+x;
- choose any positive **even** integer y(y>0) and replace a with a-y.

You can perform as many such operations as you want. You can choose the same numbers x and y in different moves.

Your task is to find the minimum number of moves required to obtain b from a. It is guaranteed that you can always obtain b from a.

You have to answer t independent test cases.

#### Input

The first line of the input contains one integer t  $(1 \le t \le 10^4)$  — the number of test cases.

Then t test cases follow. Each test case is given as two space-separated integers a and b ( $1 \le a, b \le 10^9$ ).

#### Output

For each test case, print the answer — the minimum number of moves required to obtain b from a if you can perform any number of moves described in the problem statement. It is guaranteed that you can always obtain b from a.

### Example

input	" YANG	24			1/2/2	Gen Della		estre //
5								
2 3								
10 10 2 4								
7 4								
9 3								
output		X	AL SIN	. N. 75		X	1 Eligin	A.74
1								
0								
2								
1								

## Note

In the first test case, you can just add 1.

In the second test case, you don't need to do anything.

In the third test case, you can add 1 two times.

In the fourth test case, you can subtract 4 and add 1.

In the fifth test case, you can just subtract 6.