Chessboard Distance

The Chessboard Distance for any two points (X_1, Y_1) and (X_2, Y_2) on a Cartesian plane is defined as $max(|X_1 - X_2|, |Y_1 - Y_2|)$.

You are given two points (X_1, Y_1) and (X_2, Y_2). Output their Chessboard Distance.

Note that, $|P|$ denotes the absolute value of integer P. For example, $|-4| = 4$ and $|7| = 7$.

Input Format

- First line will contain T, the number of test cases. Then the test cases follow.
- Each test case consists of a single line of input containing 4 space separated integers - X_1, Y_1, X_2, Y_2 - as defined in the problem statement.

Output Format

For each test case, output in a single line the chessboard distance between (X_1, Y_1) and (X_2, Y_2)

Constraints

- $1 \le T \le 1000$
- $1 \le X_1, Y_1, X_2, Y_2 \le 10^5$

Subtasks

Subtask #1 (100 points): original constraints

Sample 1:

Input	
Output	
3 2 4 5 1 5 5 5 3 1 4 3 3	3 2 2

Explanation:

- In the first case, the distance between $(2, 4)$ and $(5, 1)$ is $max(|2 - 5|, |4 - 1|) = max(|-3|, |3|) = 3$.

- In the second case, the distance between $(5, 5)$ and $(5, 3)$ is $max(|5 - 5|, |5 - 3|) = max(|0|, |2|) = 2$.

- In the third case, the distance between $(1, 4)$ and $(3, 3)$ is $max(|1 - 3|, |4 - 3|) = max(|-2|, |1|) = 2$.