Problem B. Minimize!

Time limit 1000 ms
Mem limit 262144 kB

You are given two integers a and b ($a \le b$). Over all possible integer values of c ($a \le c \le b$), find the minimum value of $(c - a) + (b - c)$.

Input

The first line contains t ($1 \le t \le 55$) — the number of test cases.

Each test case contains two integers a and b ($1 \le a \le b \le 10$).

Output

For each test case, output the minimum possible value of $(c - a) + (b - c)$ on a new line.

Examples

Input	Output
3 1 2 3 10 5 5	1 7 0

Note

In the first test case, you can choose $c = 1$ and obtain an answer of $(1 - 1) + (2 - 1) = 1$. It can be shown this is the minimum value possible.

In the second test case, you can choose $c = 6$ and obtain an answer of $(6 - 3) + (10 - 6) = 7$. It can be shown this is the minimum value possible.