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## Minimum Moves

Accuracy: 27.0% Submissions: 8154 Points: 15

You are given two positive integers, **A** and **B**.

In one move, you can perform any of the following operations

1. Add 1 to **A**, i.e. update **A = A + 1**
2. Add 1 to **B**, i.e. update **B = B + 1**
3. Pick any non-negative integer **X** and update **A = A | X**  
Here "|" represents the **Bitwise Or**  
([https://en.wikipedia.org/wiki/Bitwise\\_operation#OR](https://en.wikipedia.org/wiki/Bitwise_operation#OR)) operator.

**Note:** You can choose different **X** in different moves.

Print the minimum number of moves required to make **A** and **B** equal.

### Input Format:

The first line of the input contains a single integer **T** denoting the number of test cases. The description of **T** test cases is as follows:

- The first and only line of each test case contains two space-separated positive integers, **A** and **B**.

### Output Format:

For each testcase, print the minimum number of moves required to make **A** and **B** equal followed by a newline character.

**Note:** Generated output is white space sensitive, do not add any extra spaces on unnecessary new line characters.

### Constraints:

$$1 \leq T \leq 10^5$$

$$1 \leq A, B \leq 10^{18}$$

### Example: