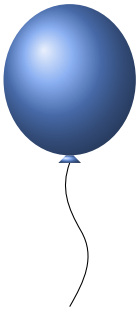
B Digit Driven Power



Time limit: 1.0s
Memory limit: 256MB

You are given two integers N and X ($N \leq X$).

Your task is to find a non-negative integer V such that:

$N + V \leq X$

The number of zeros in the decimal representation of $(N + V)$ is minimized.

If there are multiple such values of V, find the smallest one.

Input

The first line of input contains a single integer T ($1 \leq T \leq 10^5$), the number of test cases.

The only line of input in each test case consists of two integers N and X ($0 \leq N \leq X \leq 10^{18}$).

Output

Print a single integer for each test case T, V — the value to be added to N.

Samples

Sample input 1	Sample output 1
3 109 150 11 12 1000 2000	2 0 111