A. Divisibility Problem

time limit per test: 1 second
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 increase a by 1 (replace a with $a+1$). Your task is to find the minimum number of moves you need to do in order to make a divisible by b. It is possible, that you have to make 0 moves, as a is already divisible by b. 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.

The only line of the test case contains two integers a and b ($1 \le a, b \le 10^9$).

Output

For each test case print the answer — the minimum number of moves you need to do in order to make a divisible by b.

Example

input
5 10 4 13 9 100 13 123 456 92 46
output
2 5 4 333 0