



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

# 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

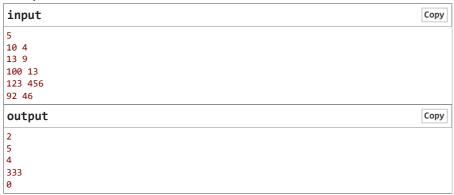
The first line of the input contains one integer t ( $1 \le t \le 10^4$ ) — the number of test cases. Then t test cases follow.

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



# Codeforces Round 629 (Div. 3)

#### **Finished**

#### Practice



### → Virtual participation

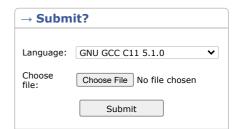
Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

# → Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest



→ Last submissions		
Submission	Time	Verdict
224694571	Sep/23/2023 07:53	Accepted
224694486	Sep/23/2023 07:51	Compilation error
224694306	Sep/23/2023 07:49	Runtime error on test 1
224692606	Sep/23/2023 07:24	Runtime error on test 1
224692538	Sep/23/2023 07:23	Compilation error





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Desktop version, switch to mobile version.

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