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PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

# C. K-th Not Divisible by n

time limit per test: 1 second memory limit per test: 256 megabytes

You are given two positive integers n and k. Print the k-th positive integer that is not divisible by n.

For example, if n=3, and k=7, then all numbers that are not divisible by 3 are: 1,2,4,5,7,8,10,11,13... The 7-th number among them is 10.

### Input

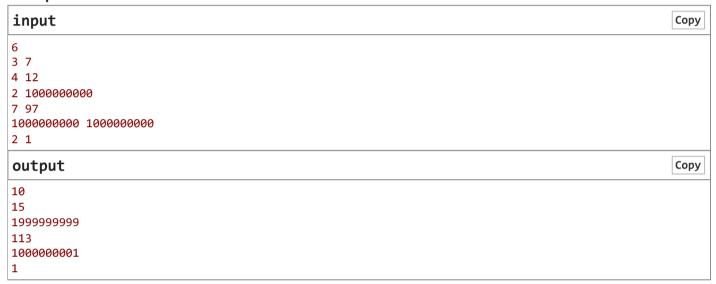
The first line contains an integer t ( $1 \le t \le 1000$ ) — the number of test cases in the input. Next, t test cases are given, one per line.

Each test case is two positive integers n ( $2 \le n \le 10^9$ ) and k ( $1 \le k \le 10^9$ ).

#### Output

For each test case print the k-th positive integer that is not divisible by n.

### Example



## Codeforces Round 640 (Div. 4)

#### **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

### → Submit?

Language: GNU G++20 13.2 (64 bit, win ➤

Choose

Choose File No file chosen

Submit

## → Last submissions

	Submission	Time	Verdict
	229939347	Oct/27/2023 02:09	Accepted

## → **Problem tags**

binary search math \*1200

No tag edit access

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## → Contest materials

- Announcement (en)
- Tutorial (en)

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