



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP CALENDAR

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

C. Book Reading

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

Polycarp is reading a book consisting of n pages numbered from 1 to n. Every time he finishes the page with the number divisible by m, he writes down the last digit of this page number. For example, if n=15 and m=5, pages divisible by m are 5,10,15. Their last digits are 5,0,5 correspondingly, their sum is 10.

Your task is to calculate the sum of all digits Polycarp has written down.

You have to answer q independent queries.

Input

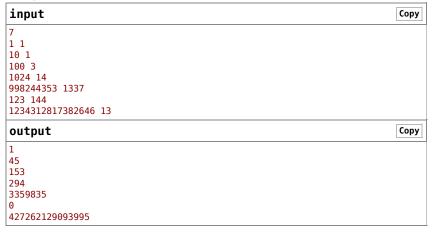
The first line of the input contains one integer q ($1 \le q \le 1000$) — the number of queries.

The following q lines contain queries, one per line. Each query is given as two integers n and m ($1 \le n, m \le 10^{16}$) — the number of pages in the book and required divisor, respectively.

Output

For each query print the answer for it — the sum of digits written down by Polycarp.

Example



Codeforces Round #582 (Div. 3)

Finished

→ 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

→ Problem tags		
math	*1200	
		No tag edit access



Codeforces (c) Copyright 2010-2019 Mike Mirzayanov
The only programming contests Web 2.0 platform
Server time: Nov/28/2019 12:21:59^{∪TC-5} (f3).
Desktop version, switch to mobile version.
Privacy Policy

Supported by

1 of 2 11/28/19, 12:23 PM



2 of 2 11/28/19, 12:23 PM