

HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP CALENDAR PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS STANDINGS CUSTOM INVOCATION

# F. Remainder Problem

time limit per test: 4 seconds memory limit per test: 512 megabytes input: standard input output: standard output

You are given an array a consisting of 500000 integers (numbered from 1 to 500000). Initially all elements of a are zero.

You have to process two types of queries to this array:

- 1 x y increase  $a_x$  by y;
- 2~x~y compute  $~\sum~a_i$ , where R(x,y) is the set of all integers from 1 to 500000

which have remainder y modulo x.

Can you process all the queries?

#### Input

The first line contains one integer q (1  $\leq q \leq$  500000) — the number of queries.

Then q lines follow, each describing a query. The i-th line contains three integers  $t_i,\,x_i$  and  $y_i$  $(1 \le t_i \le 2)$ . If  $t_i = 1$ , then it is a query of the first type,  $1 \le x_i \le 500000$ , and  $-1000 \le y_i \le 1000$ . If  $t_i = 2$ , then it it a query of the second type,  $1 \le x_i \le 500000$ , and  $0 \leq y_i < x_i$ .

It is guaranteed that there will be at least one query of type 2.

For each query of type 2 print one integer — the answer to it.

#### Example

input	Сору
5	
1 3 4	
2 3 0	
2 4 3	
1 4 -4	
2 1 0	
output	Сору
4	
4	
0	

## **Educational Codeforces Round 71** (Rated for Div. 2)

#### **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 ACM-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

#### → Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

# → Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

## → Submit?

Language: GNU G++11 5.1.0

Choose file:

选择文件 未选择任何文件

Submit

# → Problem tags

brute force data structures implementation \*2100

No tag edit access

×

×

### → Contest materials

- Announcement #1 (en)
- Announcement #2 (ru) ×
  - Tutorial #1 (en)
- Tutorial #2 (en)

<u>Codeforces</u> (c) Copyright 2010-2019 Mike Mirzayanov The only programming contests Web 2.0 platform Server time: Aug/29/2019 10:38:11<sup>UTC+8</sup> (e2).

Desktop version, switch to mobile version.

<u>Privacy Policy</u>

Supported by



