



TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP CALENDAR HOME

PROBLEMS SURMIT CODE MY SURMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

#### B. Welfare State

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

There is a country with n citizens. The i-th of them initially has  $a_i$  money. The government strictly controls the wealth of its citizens. Whenever a citizen makes a purchase or earns some money, they must send a receipt to the social services mentioning the amount of money they currently have.

Sometimes the government makes payouts to the poor: all citizens who have strictly less money than x are paid accordingly so that after the payout they have exactly x money. In this case the citizens don't send a receipt.

You know the initial wealth of every citizen and the log of all events: receipts and payouts. Restore the amount of money each citizen has after all events.

#### Input

The first line contains a single integer n ( $1 \le n \le 2 \cdot 10^5$ ) — the numer of citizens.

The next line contains n integers  $a_1, a_2, ..., a_n$  ( $0 \le a_i \le 10^9$ ) — the initial balances of citizens.

The next line contains a single integer q ( $1 \le q \le 2 \cdot 10^5$ ) — the number of events.

Each of the next q lines contains a single event. The events are given in chronological order.

Each event is described as either 1 p x  $(1 \le p \le n, 0 \le x \le 10^9)$ , or 2 x (  $0 \le x \le 10^9$ ). In the first case we have a receipt that the balance of the p-th person becomes equal to x. In the second case we have a payoff with parameter x.

Print n integers — the balances of all citizens after all events.

## **Examples**

input	Сору
4	
1 2 3 4	
3	
2 3	
1 2 2	
2 1	
output	Сору
3 2 3 4	



### **Note**

In the first example the balances change as follows: 1 2 3 4  $\rightarrow$  3 3 3 4  $\rightarrow$  3 2 3 4  $\rightarrow$  3 2 3 4

# Codeforces Round #576 (Div. 1)

## **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

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

Submit

## → Last submissions

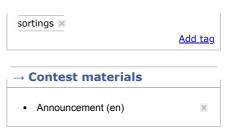
Submission	Time	Verdict
<u>58057870</u>	Jul/31/2019 09:12	Accepted

## → Problem tags

data structures × binary search 🗵

2019/7/31 Problem - B - Codeforces

In the second example the balances change as follows: 3 50 2 1 10  $\rightarrow$  3 0 2 1 10  $\rightarrow$  8 8 8 8 10  $\rightarrow$  8 8 20 8 10



Codeforces (c) Copyright 2010-2019 Mike Mirzayanov The only programming contests Web 2.0 platform Server time: Jul/31/2019 14:14:00<sup>UTC+8</sup> (e3).

Desktop version, switch to mobile version.

Privacy Policy

Supported by



