



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🛣 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

## A. Duff and Meat

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

Duff is addicted to meat! Malek wants to keep her happy for n days. In order to be happy in i-th day, she needs to eat exactly  $a_i$  kilograms of meat.

There is a big shop uptown and Malek wants to buy meat for her from there. In i-th day, they sell meat for  $p_i$  dollars per kilogram. Malek knows all numbers  $a_1, ..., a_n$  and  $p_1, ..., p_n$ . In each day, he can buy arbitrary amount of meat, also he can keep some meat he has for the future.

Malek is a little tired from cooking meat, so he asked for your help. Help him to minimize the total money he spends to keep Duff happy for n days.

#### Input

The first line of input contains integer n ( $1 \le n \le 10^5$ ), the number of days.

In the next n lines, i-th line contains two integers  $a_i$  and  $p_i$  ( $1 \le a_i$ ,  $p_i \le 100$ ), the amount of meat Duff needs and the cost of meat in that day.

#### Output

Print the minimum money needed to keep Duff happy for n days, in one line.

# Examples

input			
3 13 22 31			
output			
10			

input	
3	
13 21 32	
output	
8	

## Note

In the first sample case: An optimal way would be to buy 1 kg on the first day, 2 kg on the second day and 3 kg on the third day.

In the second sample case: An optimal way would be to buy 1 kg on the first day and 5 kg (needed meat for the second and third day) on the second day.

### Codeforces Round #326 (Div. 2)

#### **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 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

→ Problem tags			
(greedy)			
	No tag edit access		

# Contest materials Announcement Tutorial