## Member card management

After demonstrating the function of calculating the discount

(https://www.spoj.com/EIUDISC2/problems/EIMEMCARD/ for a member. You are requested to complete the discount calculation program for all customers of the company. The company's data is a list of transactions, including customer id and product price customers bought. Transactions have been arranged in chronological order.

## Input

The first line contains the number n, which is the number of transactions ( $n \le 10^5$ )

The next n lines contain the transaction data, including a 10-character string that is the customer id, and an integer that is the price of the product the customer purchased.

## Output

Print out the total amount of discount money.

## Example

Input:

5 KH00000001 3000000 KH00000002 12000000 KH00000001 30000000 KH00000002 80000000 KH00000002 80000000

Output: 3160000