Problem B: Petrol Station

Input file: standard input
Output file: standard output
Time limit: 1s
Balloon color: Indigo

Eimal is working in a petrol station. His duty is to calculate the total petrol has been sold after N customers. The price of petrol can be changed for each customer. Help Eimal with writing a program to add up the amount of soled petrol and its related price.

Input

First line contains C (1<= C <= 40) total number of customers. Second line contains the amount of petrol purchased by each customer (0 < N_1, N_2, N_3, ..., N_C < 1000), where customer 1 purchases N_1 liter of petrol, customer 2 purchases N_2 liter of petrol and so on. The third line contains corresponding price (0 < P_1, P_2, ..., P_C < 100). Where P_1 is the price per liter of petrol for customer 1, P_2 is the price per liter of petrol for customer 2 and so on.

Output

Print one line the total petrol sold and total price with a single space between them.

Example

Sample Input 1	Sample Output 1
3 20 25 40 10 20 30	85 1900