

C++ Advanced – Exam

The following tasks should be submitted to the SoftUni Judge system.

1. Products and Cities

By given a number of Cities, price per product and quantity of products, write a program that calculates the Total price (product * pricePerProduct). The first number is the number of cities we want to input. The second is the CITY. The third is the price per product. The fourth is the quantity of products.

Input

On the first line you will receive the **number of cities**.

On the next lines you will receive the **cities**, followed by the **price per product** and **quantity of products**.

Output

Print the **City** followed by the **result number**.

Examples

Input	Output
2 sofia 5 1 plovdiv 3 2	plovdiv 6 sofia 5
3 Sofia 5 10 Plovdiv 6 2 Sofia 1 5 Plovdiv 4 2 Varna 3 2	Plovdiv 20 Sofia 55 Varna 6

