

Loop StrList 2023

Write a program that can find the total price of a customer who order a set of menu items. The menu item and price data are given first and the menu item and amount are given later. For example,

Menu:

Pad Thai 30.00
Green Curry Chicken 45.50
Mango Sticky Rice 50.00
Tom Yum Soup with Shrimp 60.00
Pineapple Fried Rice 42.00

Order:

Pad Thai 2
Green Curry Chicken 1
Mango Sticky Rice 1

The output should be $(2*30.00+45.50+50.00) = 155.50$

Remark: In 80% of test cases, menu item names will not contain spaces (e.g., "PadThai" instead of "Pad Thai").

Input

1 + n + m lines.

The first line contains n and m, which are the numbers of menu items and orders, respectively. Next, n lines contain menu items, and then m lines contain order items.

Please note that n and m cannot be 0.

Output

One line contains the total price of the order.

Examples

Input	Output
3 2 Pad Thai 30.00 Green Curry Chicken 45.50 Mango Sticky Rice 50.00 Pad Thai 2 Green Curry Chicken 1	105.50
3 2 PadThai 30.00 GreenCurryChicken 45.50 MangoStickyRice 50.00 PadThai 2 GreenCurryChicken 1	Not found