



Problem: Week 7 - Analyze sales order of an e-commerce company

Description

Data about sales in an e-commerce company (the e-commerce company has several shops) consists a sequence of lines, each line (represents an order) has the following information:

<CustomerID> <ProductID> <Price> <ShopID> <TimePoint>

in which the customer <CustomerID> buys a product <ProductID> with price <Price> at the shop <ShopID> at the time-point <TimePoint>

- <CustomerID>: string of length from 3 to 10
- <ProductID>: string of length from 3 to 10
- <Price>: a positive integer from 1 to 1000
- <ShopID>: string of length from 3 to 10
- <TimePoint>: string representing time-point with the format HH:MM:SS (for example, 09:45:20 means the time-point 9 hour 45 minutes 20 seconds)

Perform a sequence of queries of following types:

- ?total_number_orders: return the total number of orders

- ?total_revenue: return the total revenue the e-commerce company gets
- ?revenue_of_shop <ShopID>: return the total revenue the shop <ShopID> gets
- ?total_consume_of_customer_shop <CustomerID> <ShopID>: return the total revenue the shop <ShopID> sells products to customer <CustomerID>
- ?total_revenue_in_period <from_time> <to_time>: return the total revenue the e-commerce gets of the period from <from_time> to <to_time> (inclusive)

Input

The input consists of two blocks of data:

The first block is the operational data, which is a sequence of lines (number of lines can be upto 100000), each line contains the information of a submission with above format

The first block is terminated with a line containing the character #

The second block is the query block, which is a sequence of lines (number of lines can be upto 100000), each line is a query described above

The second block is terminated with a line containing the character #

Output

Write in each line, the result of the corresponding query

Example

Input

C001 P001 10 SHOP001 10:30:10

C001 P002 30 SHOP001 12:30:10

C003 P001 40 SHOP002 10:15:20

C001 P001 80 SHOP002 08:40:10

C002 P001 130 SHOP001 10:30:10

C002 P001 160 SHOP003 11:30:20

#

?total_number_orders

?total_revenue

?revenue_of_shop SHOP001

?total_consume_of_customer_shop C001 SHOP001

?total_revenue_in_period 10:00:00 18:40:45

#

Output

6

450

170

40

370

Sample TestCase

C 17



1 Write your Source code here

Source code

C 17



```
1 //C
2 #include <stdio.h>
3
4 int main()
5 {
6
7 }
```

SUBMIT CODE

Currently, this contest problem is not open for submissions

Or

C 17

Select file


SUBMIT

Q Tìm kiếm

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ID	Bài tập	Trạng thái	Message
4564a2	ANALYZE_SALES_ORDER_E_COMMERCE	Accept	<div>i</div>
b5410b	ANALYZE_SALES_ORDER_E_COMMERCE	Partial	<div>i</div>

ID	Bài tập	Trạng thái	Message
a82006	ANALYZE_SALES_ORDER_E_COMMERCE	Partial	
5 hàng ▾ < < 1-3 của 3 > >			