



Problem: Telco data check & query

Description

Write a C program to perform some queries on a telco data (comming from stdin) with the following format:

The first block of data consists of lines (terminated by a line containing #), each line (number of lines can be up to 100000) is under the form:

call <from_number> <to_number> <date> <from_time> <end_time>

which is a call from the phone number <from_number> to a phone number <to_number> on <date>, and starting at time-point <from_time>, terminating at time-point <end_time>

- <from_number> and <to_number> are string of 10 characters (a phone number is correct if it contains only digits 0,1,...,9, otherwise, the phone number is incorrect)
- <date> is under the form YYYY-MM-DD (for example 2022-10-21)
- <from_time> and <to_time> are under the form hh:mm:ss (for example, 10:07:23)

The second block consists of queries (terminated by a line containing #), each query in a line (number of lines can be up to 100000) and belongs to one of the following types:

- ?check_phone_number: print to stdout (in a new line) value 1 if no phone number is incorrect
- ?number_calls_from <phone_number>: print to stdout (in a new line) the number of times a call is made from <phone_number>

- ?number_total_calls: print to stdout (in a new line) the total number of calls of the data
- ?count_time_calls_from <phone_number>: print to stdout (in a new line) the total time duration (in seconds) the calls are made from <phone_number>

Example

Input

call 0912345678 0132465789 2022-07-12 10:30:23 10:32:00

call 0912345678 0945324545 2022-07-13 11:30:10 11:35:11

call 0132465789 0945324545 2022-07-13 11:30:23 11:32:23

call 0945324545 0912345678 2022-07-13 07:30:23 07:48:30

#

?check_phone_number

?number_calls_from 0912345678

?number_total_calls

?count_time_calls_from 0912345678

?count_time_calls_from 0132465789

#

Output

1

2

4

398

120

Sample TestCase

C 17



1 Write your Source code here

Source code

C 17



```
1 //C
2 #include <stdio.h>
3
4 int main()
```

```
4  int main()  
5  {  
6  
7  }
```

SUBMIT CODE

Or

C 17 ▼

Select file

SUBMIT

🔍 Tìm kiếm



ID	Bài tập	Trạng thái	Message	Điểm	Ngôn ngữ
Không có bản ghi nào để hiển thị					
5 hàng ▼ < < 0-0 của 0 > >					