

Bài tập Bank Transfer

The data about bank transactions consists of a sequence of transactions: the information of each transaction has the following format:

`<from_account> <to_account> <money> <time_point> <atm>`

In which:

- `<from_account>`: the account from which money is transferred (which is a string of length from 6 to 20)
- `<to_account>`: the account which receives money in the transaction (which is a string of length from 6 to 20)
- `<money>`: amount of money transferred in the transaction (which is an integer from 1 to 10000)
- `<time_point>`: the time point at which the transaction is performed, it is a string under the format HH:MM:SS (hour: minute: second)
- `<atm>`: the code of the ATM where the transaction is taken (a string of length from 3 to 10)

Example: T00112233445 T001234002 2000 08:36:25 BIDV (at the ATM BIDV, account T00112233445 transfers 2000\$ to account T001234002 at time point 08:36:25 (08 hour, 36 minutes, 25 seconds))

Write a program that process the following queries:

- `?total_money_transaction_from <account>`: compute the total amount of money transferred from the account `<account>`

Input (stdin)

The input consists of 2 blocks of information: the data block and the query block

- The data block consists of lines:
 - Each line contains the information about a transaction described above
 - The data is terminated by a line containing #
- The query block consists of lines:
 - Each line is a query described above
 - The query block is terminated by a line containing #

Output (stdout)

- Print to stdout (in each line) the result of each query described above

• Example

Input	Output
T000010010 T000010020 1000 10:20:30 ATM1	4500
T000010010 T000010030 2000 10:02:30 ATM2	4000
T000010010 T000010040 1500 09:23:30 ATM1	
T000010020 T000010030 3000 08:20:31 ATM1	
T000010030 T000010010 4000 12:40:00 ATM2	
T000010040 T000010010 2000 10:30:00 ATM1	
T000010020 T000010040 3000 08:20:31 ATM1	
T000010040 T000010030 2000 11:30:00 ATM1	
T000010040 T000010030 1000 18:30:00 ATM1	
#	
?total_money_transaction_from T000010010	
?total_money_transaction_from T000010030	
#	

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```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.*;
public class Main {
    public static void main(String[] args){
        try{
            BufferedReader in = new BufferedReader(new InputStreamReader(System.in));
            Map<String, Integer> map = new HashMap();
            while(true){
                String line = in.readLine();
                if(line.equals("#")) break;
                String[] s = line.split(" ");
                String fromAcc = s[0];
                int money = Integer.valueOf(s[2]);
                if(map.get(fromAcc)==null) map.put(fromAcc,money);
                else map.put(fromAcc,map.get(fromAcc) + money);
            }
        }
    }
}
```

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```
• // query processing
    while(true){
        String line = in.readLine();
        if(line.equals("#")) break;
        String[] s = line.split(" ");
        String fromAcc = s[1];
        int res = 0;
        if(map.get(fromAcc)==null) res = 0;
        else res = map.get(fromAcc);
        System.out.println(res);
    }
    in.close();
} catch (Exception e){}
}
```