You have been called upon to write a program which performs one of the initial steps in posting transactions to a general ledger. The central principle of double-entry bookkeeping is that the sum of all debits must equal the sum of all credits. This is true for each transaction. For the purposes of your program, positive numbers represent debits and negative numbers represent credits. That is, 2.00 is a two dollar debit, and -2.00 is a two dollar credit. The purpose of your program is to check that each transaction balances, and to report it if it doesn't.

## Input

Input data to your program will come in two sections. The first section is a list of up to 100 accounts in the general ledger. It consists of lines in the format:

The second section of the input data consists of 15-character records, one per line in the format

sssnnnxxxxxxxxx

where sss is a three-digit sequence number, nnn is a three-digit account number, and xxxxxxxxx is a nine-digit amount in dollars and cents (without the decimal point). Each of these records is one entry of a transaction. A transaction consists of between two and ten entries with identical sequence numbers. Each transaction will be contiguous within the input data. This section of input data is terminated by a record which has a sequence number of '000'.

## Output

Nothing is to be printed for transactions which balance. For transactions which do not balance, an exception report is to be printed in the form:

## Sample Input

111Cash

```
121Accounts Receivable
211Accounts Payable
241Sales Tax Payable
401Sales
5550ffice Supplies
000No such account
100111
         11795
100121
         -11795
101121
           105
             -7
101241
101401
          -100
102211
        -70000
         40000
102555
103111
         -40000
103555
          40000
000000
              0
```

## Sample Output

```
*** Transaction 101 is out of balance ***

121 Accounts Receivable 1.05

241 Sales Tax Payable -0.07

401 Sales -1.00

999 Out of Balance 0.02

*** Transaction 102 is out of balance ***

211 Accounts Payable -700.00

555 Office Supplies 400.00

999 Out of Balance 300.00
```