
New times

P69424_en

Setè Concurs de Programacio de la UPC - Semifinal (2009-06-29)

Remember the old days when Informatics was a boring discipline, when bloody algorithms and maths were considered important, and when the fundamentals of computer science were thought in faculties? (What an heresy ...) Fortunately, those days are over, my friend!

What is very important today is to be prepared for entering into the fascinating world of consulting: Keeping the balance of thousands of accounts updated, producing beautifully formatted outputs, wearing neckties the whole day, ... Yes, that's the way!

Are you prepared for the new times? Let's check it! In this problem you will have to keep the balance of several accounts, and produce nicely written output reports. (It is up to you to wear a necktie or not.)

Input

Input begins with the number of cases. Every case has five kinds of operations:

- To create a new account with 0 money: `NEW <account name>`
Prints an error message if the account already exists.
- To transfer money: `TRANSFER <account name 1> <account name 2> <quantity>`
Prints an error message for each non-existing account.
- To print the current money of an account: `QUERY <account name>`
Prints an error message if the account does not exist.
- To remove an account: `DELETE <account name>`
Prints an error message if the account does not exist.
- To end a case: `END`

The names of the accounts are made up only of lower-case letters and digits. The given quantities and the current money of every account will always fit into a C++ integer variable.

Output

Begin the output for each case with a line with its number starting at 1. Afterwards, print a line for every correct query and every error message, in the same order in which they happen. To make the problem even more interesting (if possible), every line of the same case must have the same length, which should be chosen as short as possible. If needed, add asterisks to the left of error messages, and spaces to the left of the current money of the accounts. Finish every case with a line with the appropriate number of dashes. Every given case will have at least one line of output.

Sample input

```
4

QUERY corleone
NEW corleone
QUERY corleone
NEW corleone
NEW fanucci
TRANSFER corleone fanucci 100
QUERY corleone
QUERY fanucci
END

QUERY leia
DELETE chewbacca
TRANSFER r2d2 c3po 1000
END

NEW c3po
TRANSFER r2d2 c3po 4000000
NEW r2d2
TRANSFER r2d2 c3po 4000000
NEW chewbacca
QUERY c3po
QUERY leia
TRANSFER r2d2 chewbacca 60000000
QUERY r2d2
TRANSFER r2d2 leia 1000
NEW r2d2
QUERY r2d2
DELETE r2d2
QUERY r2d2
END

NEW r2d2
QUERY r2d2
END
```

Sample output

```
Case #1
*****Account corleone not found.
Money of corleone:           0.
Account corleone already exists.
Money of corleone:          -100.
Money of fanucci:           100.
-----
Case #2
*****Account leia not found.
Account chewbacca not found.
*****Account r2d2 not found.
*****Account c3po not found.
-----
Case #3
*****Account r2d2 not found.
Money of c3po:              4000000.
*****Account leia not found.
Money of r2d2:             -64000000.
*****Account leia not found.
Account r2d2 already exists.
Money of r2d2:             -64000000.
*****Account r2d2 not found.
-----
Case #4
Money of r2d2: 0.
-----
```

Problem information

Author : Salvador Roura
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