

Bank

Objective

The objective of this problem is to test the understanding of Object-Oriented Programming (OOP) concepts, in particular, on encapsulation.

Problem Description

SuperBank is opening a new branch in Singapore. Bob, the manager of SuperBank, asks your help to create a program for managing customer's bank accounts.

A bank customer can do the following operations:

1. Create a new bank account with an initial balance.
2. Deposit money into his/her account.
3. Withdraw money from his/her account.

For this operation, you need to output "Transaction successful" if the intended amount of money can be withdrawn, otherwise output "Transaction unsuccessful" and no money will be withdrawn from his/her account.

Input

The input contains several operations and is terminated by "0". The operations will be "Create *name amount*", "Deposit *name amount*", or "Withdraw *name amount*", where *name* is the customer's name and *amount* is an integer indicating the amount of money. There will be at most 100 bank accounts and they are all created on the first month when the bank is opening. You may assume that all account holders have unique names and the names consist of only a single word.

Output

The output contains the transaction result of withdrawal operations and the final balance of all customers after some withdrawal and deposit operations (same order as the input).

Sample Input

```
Create Billy 2500
Create Charlie 1000
Create John 100
Withdraw Charlie 500
Deposit John 899
Withdraw Charlie 1000
0
```

Sample Output

```
Transaction successful
Transaction unsuccessful
Billy 2500
Charlie 500
John 999
```

Note

The main Java class must be called **Bank**, and be in the source file **Bank.java**.