银行模拟程序

- 客户可以开立账户
- 客户可以从账户存入/取出资金
- 客户可以请求显示其每个帐户的交易和总计的报表
- 不同的账户以不同的方式计算利息
- 支票账户的固定利率为 0.1％
- 储蓄账户的前 1000 美元的利率为 0.1％，然后为 0.2％
- Maxi-Savings 账户的前 1000 美元的费率为 2％，接下来的 1,000 美元的费率为 5％，然后是 10％
- 银行经理可以获得一份报告，显示客户列表以及他们拥有的帐户数量
- 银行经理可以获得一份报告，显示银行在所有账户上支付的利息总额
- getStatement 不需要考虑 MAXI_SAVINGS 类型账户

0为支票账户
1 为储蓄账户
2 为 Maxi-Savings 账户

输入命令说明

createAccount type	type 取值 0,1,2 创建对应类型的银行账号
createCustomer name	name 是字符串，创建户名为 name 的银行用户
addToCustomer index name	index 是根据 account 的创建次序索引到银行账号，将对应的银行账号挂在名为 name 的用户名下
accountDeposit index amount	在指定的银行账号下存入 amount 数量的钱
accountWithdraw index amount	在指定的银行账号下去除 amount 数量的钱
sumTransactions index	获取指定银行账号的余额
numberOfAccount name	获取指定用户名下的账号数量
totalInterestEarned name	获取指定用户的利息收入
getStatement name	获取指定用户的所有交易信息
banktotalInserstPaid	获取银行需要支付的利息总额
customsum	获取用户统计
end	输入结束标志

1_account
createCustomer Bill createAccount 0 addToCustomer 0 Bill accountWithdraw 0 -100.0 end
amount must be greater than zero

2_account
createCustomer Bill createAccount 0 addToCustomer 0 Bill

accountWithdraw 0 100.0
end

sumTransactions must be greater than zero

3_account
createCustomer Bill
createAccount 0
addToCustomer 0 Bill
accountDeposit 0 -100.0
end

amount must be greater than zero

4_account
createCustomer Bill
createAccount 2
addToCustomer 0 Bill
accountDeposit 0 1400.0
accountWithdraw 0 700.0
sumTransactions 0
end

700.0

5_bank
createCustomer John
createAccount 0
addToCustomer 0 John
customsum
end

Customer Summary   - John (1 account)

6_bank
createAccount 0
createAccount 1
createCustomer Bill
createCustomer Tim

addToCustomer 0 Bill
addToCustomer 1 Tim
accountDeposit 0 100.0
accountDeposit 0 1000.0
banktotalInserstPaid
end

1.1

7_bank
createAccount 1
createCustomer Bill
addToCustomer 0 Bill
accountDeposit 0 1500.0
banktotalInserstPaid
end

2.0

8_bank
createAccount 2
createCustomer Bill
addToCustomer 0 Bill
accountDeposit 0 3000.0
banktotalInserstPaid
end

170.0

9_bank
createCustomer John
createCustomer Jack
createAccount 0
createAccount 1
addToCustomer 0 John
addToCustomer 1 John
createAccount 2
addToCustomer 2 Jack
customsum
end

Customer Summary
  - John (2 accounts)
  - Jack (1 account)

10_customer

createAccount 0
createAccount 1
createCustomer Henry
addToCustomer 0 Henry
addToCustomer 1 Henry
accountDeposit 0 100.0
accountDeposit 1 4000.0
accountWithdraw 1 200.0
getStatement Henry
end

Statement for Henry

Checking Account
    deposit $100.00
Total $100.00

Savings Account
    deposit $4000.00
    withdrawal $200.00
Total $3800.00

Total In All Accounts $3900.00

11_customer

createAccount 2
createAccount 1
createCustomer Bill
addToCustomer 0 Bill
addToCustomer 1 Bill
accountDeposit 0 3000.0
accountDeposit 1 1000.0
totalInterestEarned Bill
end

171.0