QUIZ 1

File format: Class_NIM_NAMA.C (Ex: LA05_2702200000_Dature.C)

Money Tracker System

XYZ, a leading financial application, wants to upgrade its system to provide enhanced services to its customers. As part of the upgrade, XYZ can add transactions, view transaction histories, and delete transactions when necessary. The XYZ hires you to do the job. You want to leverages **double linked lists** data structures to optimize data storage and retrieval operations.

Input:

1. The first input will be:

В

Where:

- **B** is an integer for the balance in the account.
- 2. The second input will be:

Ν

Where:

- **N** is an integer for the number of expense transactions in an account.
- 3. The third input will be:

 $C_1D_1A_1$

 $C_2D_2A_2$

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 $C_N D_N A_N$

Where:

- C is a string for categories of transactions (food / house / entertainment / other),
- **D** is a string for detail of the transactions
- **A** is an integer for amount spends money for that transaction.
- 4. The fourth input will be:

T

Where:

- **T** is a string for the detail of the history transactions that want to be deleted from the list

Output:

- 1. Print the balance in the account.
- 2. Print the expense of each category.
- Print all the transactions.

Examples:

Sample input	Sample output
3500000	Account Balance: 850000
5	food: 600000
house rent 1800000	house: 1800000
food meal 450000	entertainment: 0
other skincare 250000	other: 250000
entertainment ott 450000	rent (house): 1800000
food grocery 150000	meal (food): 450000
ott	skincare (other): 250000
	grocery (food): 150000

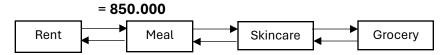
Explain:

- The initial account balance: 3.500.000
- There are 5 transactions:

Category	Detail	Amount	Balance
house	rent	1.800.000	1.700.000
food	meal	450.000	1.250.000
other	skincare	250.000	1.000.000
entertainment	ott	450.000	550.000
food	grocery	150.000	400.000



- Users want to delete "ott" from the transaction history list
 - Account balance = last balance + ott

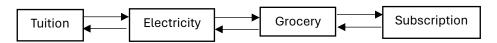


Sample input	Sample output
7000000	Account Balance: 3750000
4	food: 750000
other tuition 1500000	house: 1000000
house electricity 1000000	entertainment: 0
food grocery 750000	other: 1500000
entertainment subscription 1250000	tuition (other): 1500000
subscription	electricity (house): 1000000
	grocery (food): 750000

Explain:

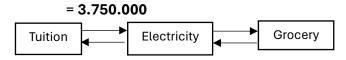
- The initial account balance: 7.000.000
- There are 4 transactions:

Category	Detail	Amount	Balance
Other	Tuition	1.500.000	5.500.000
House	Electricity	1.000.000	4.500.000
Food	Grocery	750.000	3.750.000
entertainment	subscription	1.250.000	2.500.000



- Users want to delete "subscription" from the transaction history list
 - o Account balance = last balance + subscription

= 2.500.000 + 1.250.000



Sample input	Sample output
1000000	Account Balance: 450000
3	food: 300000
entertainment movies 150000	house: 0
food meal 300000	entertainment: 0
other book 250000	other: 250000
movies	meal (food): 300000
	book (other): 250000

Explain:

- The initial account balance: 1.000.000
- There are 4 transactions:

Category	Detail	Amount	Balance
Entertainment	Movies	150.000	850.000
Food	Meal	300.000	550.000
Other	Book	250.000	300.000



- Users want to delete "movies" from the transaction history list
 - Account balance = last balance + movies

= 450.000

