

Digital Wallet Management System

A Digital Wallet Management System is a software platform that allows users to manage their financial transactions digitally. It enables transferring and receiving funds, and viewing account balances. This system ensures secure, fast, and convenient transactions, streamlining financial management for users.

Requirements :

- List of users with their initial balances
- List of transactions including adding funds.

Results :

- For each transaction, provide a confirmation of success or failure.
- After completing all transactions, sort and display users based on leftover balance.

Input Format

The first line contains an integer **N**, the number of users.

The next N lines each contain two integers: `userID` and `balance`, where `userID` is the user's identifier, and `balance` is the user's current balance

The next line contains an integer **T** , the number of transactions.

The next T lines each contain three integers: `from_userID`, `to_userID`, `amount`, where `from_userID` and `to_userID` are the identifiers of the users involved in the transaction, `amount` is the amount transferred

Constraints

- $1 \leq \mathbf{N} \leq 10^2$
- $1 \leq \mathbf{userID} \leq 10^2$
- $0 \leq \mathbf{balance} \leq 10^4$
- $1 \leq \mathbf{T} \leq 10^3$
- $0 \leq \mathbf{amount} \leq 10^4$

Output Format

For each transaction:

Print "Success" if the transaction was completed successfully.

Print "Failure" if the transaction failed

Print all users in sorted order based on their leftover balance.

Sample Input 0

```
4
1 9000
2 3000
3 7500
4 2000

5
1 2 1000
3 4 3000
2 3 500
4 1 7500
1 4 1500
```

Sample Output 0

```
Success
Success
Success
Failure
Success

2 3500
3 5000
1 6500
4 6500
```