**Requirements Problems**

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- The bank transactions is 41 characters and not 40 characters. We used 41.

- We used 00000 as a reserved account number if the account number isn't needed in a transaction.

- Accounts will not complete more than 9999 transactions each day.

- An Admin can delete an account that has been disabled.

- Truncate account names if necessary during creation.

- Everyone can add an extra flag to the end of the current and master bank accounts files, NNNNN\_AAAAAAAAAAAAAAAAAAAA\_S\_PPPPPPPP\_Q, where Q is S for student plans and N for non-student plans.

- By default, accounts should be non-student plans.

- Yes, it should allow changes in the other direction for student plans to non-student plans and vice versa.

- Users should not be allowed to access the end\_of\_file account.

- Wait unless your text file told it to terminate during execution.

- Money will always be in the format #####.## where # is a number from 0-9. No dollar signs. Values that don't fit in this format aren't allowed.

- Admins can perform any action when they've logged into an account, unless the account is disabled. Reject log ins for non-matching name/accounts, even if they are an admin.

- Let's go with the front end deducting the 5-10 cent transaction fee every time a transaction is made. Do this first, so that if someone tries to withdraw 400$ from a 400$ account, it is rejected since the 5-10 cents will be removed before the withdraw happens.

- Disabled accounts can log in, but can't do any transactions. Admins can re-enable accounts; I'll make a separate message for the details.

- Transaction Code 09  
enable – enable a bank account

• should ask for the bank account holder’s name (as a text line)  
• should ask for the account number (as a text line)  
• should change the bank account from disabled (D) to active (A)  
• should save this information for the bank account transaction file  
• Constraints:  
o privileged transaction - only accepted when logged in admin  
mode  
o Account holder’s name must be the name of an existing  
account holder  
o Account number must be the number of the account holder  
specified

- No further transactions can be made in that session to a disabled account. The front end should keep track of whether or not an account has been disabled.

- Withdraw, Deposit, Transfer, and Paybill transactions are the only ones that incur fees. They are not charged when an admin is logged in.

- The front end should keep track of whether the current logged in user is standard or admin.

- Use the transaction code 10 for login. For the Miscellaneous information, use " A" for admin and " S" for standard logins.

- You can assume no two users have the exact same name.

- No coins but yes all paper currency is allowed. $5, $10, $20, $50, $100

- Canadian only currency

- Paper currency only applies to withdrawals

- If you run enable on a disabled account you can immediately run transactions with it again.

- If an account is changed to a student account half way through the day do all subsequent transactions for that session/day get charged the student rate

- Someone can withdraw 500 twice if they have two accounts and take once from each.

- If the user tries something like withdrawing 1000000, it should take the user back to the place where they can try another transaction

- Transfers are > $0

- The maximum amount of money that can be paid to a bill holder in current session and current day is $2000.

- You need to keep track of balances.

- A new account holder would have a new name.

- Can not transfer funds to a disabled account.

- Responsibility of the back end to manage the passing of days.

- Fail gracefully on no input

- If you enable an account, you can immediately start changing the balance. If you disable an account, you immediately can't start changing the balance.

- When an admin logs in, they don't need an account holder name or account number

- Left align all strings

- Only 5.00 is acceptable (with the right number of 0s to the left)

- $0.05 for students and $0.10 for non-students

- Account number is unique when creation happens and front end will generate one. Also can't be used in the same day as creation

- No more than $2000 per company for paybill

- No errors in the accounts' file