

Function	Description	Parameters	Return
parse_to_summary_file	Parses the contents of the merged transaction summary file. Reads through the file, building a TransactionSummary object called <i>summary</i> . For each line, a new row is added to <i>summary</i> , detailing one complete transaction, until the empty account line (end of file) is reached. <i>summary</i> is then returned.	String: filename	Returns a TransactionSummary instance containing the information for all the transactions in the merged transaction summary file.
parse_master_accounts_file	Parses the contents of the old master accounts file. Reads through the file, making a dictionary of accounts. For each line, the contents are added as a new element in the dictionary, with the account number as the key and tuple (account balance, account name) as the value.	String: filename	Returns the accounts dictionary.
write_new_valid_accounts_file	Writes the contents of the accounts dictionary (parameter) to the filename passed in (corresponds to the new master accounts file). For each item in the dictionary, a line in the file is written containing the account number, and the file ends with the EOF account number 0000000.	String: filename Dictionary of accounts: with account number as the key and a tuple (balance, name) as the value	None
write_master_accounts_file	Writes the contents of the accounts dictionary (parameter) to the filename passed in (corresponds to the new valid accounts list file). For each item in the dictionary, a line in the file is written containing the account number, balance, and name, delimited by spaces.	Dictionary of accounts: with account number as the key and a tuple (balance, name) as the value	None
parse_backend	Calls parse_to_summary_file and parse_master_accounts_file, passing in the paths to the old master accounts file and the merged transaction summary file. Then, for each transaction (row in the transaction summary instance returned by parse_to_summary_file), the transaction type is checked to determine the action needed to appropriately update the master accounts (dictionary returned by parse_master_account_file). For example, if the transaction summary row details a deposit, the account to deposit to is searched for in master accounts, and if found, the balance is updated. Similarly for withdraw and transfer, balances are updated. For create and delete account, items in the master accounts dictionary are added/removed as needed. The 4 business constraints are checked depending on the transaction type. Finally, write_master_account_file is called, being passed the path to the old master accounts file, and the contents to be written to the new master accounts file.	String: path to old master accounts file String: path to merged transaction summary file	None
main	Calls parse_backend, passing in the paths to the merged transaction summary file and the old master accounts file.	None	None