

Red texts: crucial failures	Gray texts: extra tests that are not implemented			Green texts: test cases passed, before or after fix. (all passed)		Black texts: normal failures		Empty blocks: test cases passed at the beginning	
Requirement	ID	Group	Group Short Name	Name	Purpose	Test Failure	Error in Code	Fix	If pass at the end
	R3T2			Privileged Withdraw	Allow privileged withdraw Allow logout after withdraw command Block withdraw after logout	Failed because messages in code changed: Pattern did not match "logout" not valid input during account prompt	Nothing	Fix in the expected output file: Changed "Account #" to simpler pattern "#" Some outputs were non-deterministic, removing unnecessary patterns from the expected output prevented this error Added 0000000 cancel to expect script to cancel transaction then logout	passed
	R3T3			Privileged Deposit	Allow privileged deposit Allow logout after deposit command Block deposit after logout	Failed because messages in code changed: Pattern did not match "logout" not valid input during account prompt	Nothing	Fix in the expected output file: Changed "Account #" to simpler pattern "#" Some outputs were non-deterministic, removing unnecessary patterns from the expected output prevented this error Added 0000000 cancel to expect script to cancel transaction then logout	passed
	R3T4			Privileged Transfer	Allow privileged transfer Allow logout after transfer command Block transfer after logout	Failed because messages in code changed: Pattern did not match "logout" not valid input during account prompt	Nothing	Fix in the expected output file: Changed "Account #" to simpler pattern "#" Some outputs were non-deterministic, removing unnecessary patterns from the expected output prevented this error Added 0000000 cancel to expect script to cancel transaction then logout	passed
	R3T5			Privileged Createacct	Allow privileged creating account Allow logout after createacct command Block createacct after logout	Failed because messages in code changed: Pattern did not match "logout" not valid input during account prompt	Nothing	Fix in the expected output file: Changed "Account #" to simpler pattern "#" Some outputs were non-deterministic, removing unnecessary patterns from the expected output prevented this error Added 0000000 cancel to expect script to cancel transaction then logout	passed
	R3T6			Privileged Deleteacct	Allow privileged deleting account Allow logout after deleteacct command Block deleteacct after logout	Failed because messages in code changed: Pattern did not match "logout" not valid input during account prompt	Nothing	Fix in the expected output file: Changed "Account #" to simpler pattern "#" Some outputs were non-deterministic, removing unnecessary patterns from the expected output prevented this error Added 0000000 cancel to expect script to cancel transaction then logout	passed
	R3T7			Privileged Login-login	Forbid logging in again after privileged login	Failed because messages in code changed: Pattern did not match "logout" not valid input during account prompt	Nothing	Fix in the expected output file: Changed "Account #" to simpler pattern "#" Some outputs were non-deterministic, removing unnecessary patterns from the expected output prevented this error Added 0000000 cancel to expect script to cancel transaction then logout	passed
	R3T8			Privileged Logout-login	Allow logging in after privileged login	Failed because messages in code changed: Pattern did not match "logout" not valid input during account prompt	Nothing	Fix in the expected output file: Changed "Account #" to simpler pattern "#" Some outputs were non-deterministic, removing unnecessary patterns from the expected output prevented this error Added 0000000 cancel to expect script to cancel transaction then logout	passed
	R3T9			Privileged Invalid Input	Block invalid inputs	Failed because messages in code changed: Pattern did not match "logout" not valid input during account prompt	Nothing	Fix in the expected output file: Changed "Account #" to simpler pattern "#" Some outputs were non-deterministic, removing unnecessary patterns from the expected output prevented this error Added 0000000 cancel to expect script to cancel transaction then logout	passed
Logout									
No transaction other than login should be accepted after logging out	R4T1			Logout	Can log out during logging in				passed
	R4T2			Logout Blocking	Cannot logout after logged out				passed
	R4T3			Allow Login	Able to log in again after logged out				passed
									passed
Create Account									
Privileged transaction, only accepted in agent mode	R5T1			Logout	Allow login	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed

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	R5T2			Login	Aloow logout	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R5T3			Deleteacct Blocking	Cannot delete account before create account	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R5T4			Deposit Blocking	Cannot deposit before create account	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R5T5			Withdraw Blocking	Cannot withdraw before create account	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R5T6			Transfer Blocking	Cannot transfer before create account	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R5T7			Invalid Account Number	Cannot use alphabte as account number	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R5T8			Invalid Account Number	cannot create an account number that starts with ezro	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R5T9			Invalid Account Number	cannot create an account number that digits are less than seven or more than seven	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R5T10			Invalid Account Number	cannot create an account number that is the same as existing number	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R5T11			Invalid account name	cannot create an account name that the beginning or the end or both with space	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R5T12			Invalid account name	cannot create an account name that length is less than 3 or more than 30 alphanumeric characters	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R5T13			Invalid account name	cannot create an account that all characters are alphabte or number	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R5T14			vaild account name	check account name if vaild	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
Delete Account									
Privileged transction, only accepted in agent mode	R6T1			create blocking	Cannot deleteacct account before createacct	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R6T2			deposit blocking	Cannot deposit after delete account	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R6T3			withdraw blocking	Cannot withdraw after delete account	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R6T4			transfer blocking	Cannot transfer after delete account	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
	R6T5			delete account permitted	Allow delete account	Failed - Did not know when to input data	Did not provide "#" prompt	Adding "Account #" prompt to CreateAcctScript prompted test script to input next line in sequence, fixing both issues at once.	passed
									passed
Deposit									
Check that the Account # is valid	R7T1	Deposit Account Format Validation	account_format	reject_invalid	Reject invalid account # format	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
	R7T2			reject_alpha	Reject alphabetical account input	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
	R7T3	Deposit Account Existence Validation	account_existence	reject_nonexistent	Reject non-existent account #	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
No further transactions should be accepted on a deleted account	R7T4			reject_deleted	Reject deleted account	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed

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0000000 is a special account and cannot be used. Decision to let users use account 0000000 to cancel a transaction	R7T5	Deposit Account Cancel Verification	transaction_cancel	transaction_cancel	Cancel deposit	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
Agent: Reject deposits above 999,999.99\$	R8T1	Agent Deposit Limit Validation	transaction_limits (agent)	upper	Agent: Test deposit limit upper bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
	R8T2			lower	Agent: Test deposit limit lower bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
	R8T3			violate_upper	Agent: Violate limit upper bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
	R8T4			violate_lower	Agent: Violate limit lower bound	Failed - IllegalArgumentException Failed - Expect Script Interpreting -1 as a command	TransactionScript.getAmount() did not reject negative numbers from being input. The child scripts did not perform a negation check (since it was supposedly implied by getAmount()) and passed the illegal argument to the Transaction class constructor where the illegal value was detected.	Added check for negative values in the getAmount() function and prints specific error to screen when encountered Added escape characters to expect script to ensure strings read from files were treated as string literals or string patterns rather than expect commands	passed
ATM: Reject deposits above 2000\$	R8T5	Machine Deposit Limit Validation	transaction_limits (machine)	upper	ATM: Test deposit limit upper bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
	R8T6			lower	ATM: Test deposit limit lower bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
	R8T7			violate_upper	ATM: Violate limit upper bound	Pattern did not matc	Message did not match "violated" instead of "exceeded"	Changed "violated" to "exceeded" Fix in the expected output file: Changed Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matchingstring to "exceeded"	passed
	R8T8			violate_lower	ATM: Violate limit lower bound	Failed - IllegalArgumentException Failed - Expect Script Interpreting -1 as a command	TransactionScript.getAmount() did not reject negative numbers from being input. The child scripts did not perform a negation check (since it was supposedly implied by getAmount()) and passed the illegal argument to the Transaction class constructor where the illegal value was detected.	Added check for negative values in the getAmount() function and prints specific error to screen when encountered Added escape characters to expect script to ensure strings read from files were treated as string literals or string patterns rather than expect commands	passed
ATM: Daily total cannot exceed 5000\$ for any given account	R8T9	Machine Daily Account Deposit Limit Validation		violate_daily	ATM: Violate 5000\$ account limit	Pattern did not match	Message did not match "violated" instead of "exceeded"	Changed "violated" to "exceeded" Fix in the expected output file: Changed Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matchingstring to "exceeded"	passed
Withdraw									
Check that the Account # is valid	R9T1	Withdrawal Account Format Validation	account_format	reject_invalid	Reject invalid account # format	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
	R9T2			reject_alpha	Reject alphabetical account input	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
	R9T3	Withdrawal Account Existence Validation	account_existence	reject_nonexistent	Reject non-existent account #	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
No further transactions should be accepted on a deleted account	R9T4	Withdrawal Account Existence Validation		reject_deleted	Reject deleted account	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
0000000 is a special account and cannot be used. Decision to let users use account 0000000 to cancel a transaction	R9T5	Withdrawal Account Cancel Verification	transaction_cancel	transaction_cancel	Cancel withdrawal	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
Agent: Reject withdrawals above 999,999.99\$	R10T1	Agent Withdrawal Limit Validation	transaction_limits (agent)	upper	Agent: Test withdraw limit upper bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
	R10T2			lower	Agent: Test withdraw limit lower bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matching	passed
	R10T3			violate_upper	Agent: Violate limit upper bound	Pattern did not match	Message did not match "violated" instead of "exceeded"	Changed "violated" to "exceeded" Fix in the expected output file: Changed Changed lines matching "Account#" to "#" and "Amount" to "c" for more general pattern matchingstring to "exceeded"	passed

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	R10T4			violate_lower	Agent: Violate limit lower bound	Failed - IllegalArgumentException Failed - Expect Script Interpreting -1 as a command	TransactionScript.getAmount() did not reject negative numbers from being input. The child scripts did not perform a negation check (since it was supposedly implied by getAmount()) and passed the illegal argument to the Transaction class constructor where the illegal value was detected.	Added check for negative values in the getAmount() function and prints specific error to screen when encountered Added escape characters to expect script to ensure strings read from files were treated as string literals or string patterns rather than expect commands	passed
ATM: Reject withdrawals above 1000\$	R10T5	Machine Withdrawal Limit Validation	transaction_limits (machine)	upper	ATM: Test withdraw limit upper bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
	R10T6			lower	ATM: Test withdraw limit lower bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
	R10T7			violate_upper	ATM: Violate limit upper bound	Pattern did not match	Message did not match "violated" instead of "exceeded"	Changed "violated" to "exceeded" Fix in the expected output file: Changed Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matchingstring to "exceeded"	passed
	R10T8			violate_lower	ATM: Violate limit lower bound	Failed - IllegalArgumentException Failed - Expect Script Interpreting -1 as a command	TransactionScript.getAmount() did not reject negative numbers from being input. The child scripts did not perform a negation check (since it was supposedly implied by getAmount()) and passed the illegal argument to the Transaction class constructor where the illegal value was detected.	Added check for negative values in the getAmount() function and prints specific error to screen when encountered Added escape characters to expect script to ensure strings read from files were treated as string literals or string patterns rather than expect commands	passed
ATM: Daily total cannot exceed 5000\$ for any given account	R10T9	Machine Daily Account Withdrawal Limit Validation		violate_daily	ATM: Violate 5000\$ account limit	Failed - Limit Violation!	A copy-paste error resulted in the daily limit for deposit being set twice and no limit being set for withdraw.	Changing the TransactionType from deposit to withdraw in the MachineConstraints class fixed this issue	passed
Transfer									
Check that bouth Account #s are valid	R11T1	Transfer Account Format Validation	account_format	reject_invalid_src	Reject invalid account # format (from)	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
	R11T2			reject_invalid_dst	Reject invalid account # format (to)	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
	R11T3			reject_alpha_srt	Reject alphabetical account input (from)	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
	R11T4			reject_alpha_dst	Reject alphabetical account input (to)	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
	R11T5	Transfer Account Existence Validation	account_existence	reject_nonexistent_src	Reject non-existent account # (from)	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
	R11T6			reject_nonexistent_dst	Reject non-existent account # (to)	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
No further transactions should be accepted on a deleted account	R11T7	Transfer Account Existence Validation		reject_deleted_src	Reject deleted account (from)	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
	R11T8			reject_deleted_dst	Reject deleted account (to)	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
Don't transfer money to same account	R11T9		account_diff	reject_same	Reject from and to being same account	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
0000000 is a special account and cannot be used. Decision to let users use account 0000000 to cancel a transaction	R11T10	Transfer Account Cancel Verification	transaction_cancel	transaction_cancel_src	Cancel transfer (from)	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
	R11T11			transaction_cancel_dst	Cancel transfer (to)	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
Agent: Reject withdrawals above 999,999.99\$	R12T1	Agent Transfer Limit Validation	transaction_limits (agent)	upper	Agent: Test transfer limit upper bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed
	R12T2			lower	Agent: Test withdraw limit lower bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amounte" to "c" for more general pattern matching	passed

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	R12T3			violate_upper	Agent: Violate limit upper bound	Pattern did not match	Message did not match "violated" instead of "exceeded"	Changed "violated" to "exceeded" Fix in the expected output file: Changed Changed lines matching "Account#" to "#" and "Amount\$" to "e" for more general pattern matchingstring to "exceeded"	passed
	R12T4			violate_lower	Agent: Violate limit lower bound	Failed - IllegalArgumentException Failed - Expect Script Interpreting -1 as a command	TransactionScript.getAmount() did not reject negative numbers from being input. The child scripts did not perform a negation check (since it was supposedly implied by getAmount()) and passed the illegal argument to the Transaction class constructor where the illegal value was detected.	Added check for negative values in the getAmount() function and prints specific error to screen when encountered Added escape characters to expect script to ensure strings read from files were treated as string literals or string patterns rather than expect commands	passed
ATM: Reject transfers above 10,000\$	R12T5	Machine Transfer Limit Validation	transaction_limits (machine)	upper	ATM: Test transfer limit upper bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount\$" to "e" for more general pattern matching	passed
	R12T6			lower	ATM: Test withdraw limit lower bound	Minor pattern matching error	Nothing	Fix in the expected output file: Changed lines matching "Account#" to "#" and "Amount\$" to "e" for more general pattern matching	passed
	R12T7			violate_upper	ATM: Violate limit upper bound	Pattern did not match	Message did not match "violated" instead of "exceeded"	Changed "violated" to "exceeded" Fix in the expected output file: Changed Changed lines matching "Account#" to "#" and "Amount\$" to "e" for more general pattern matchingstring to "exceeded"	passed
	R12T8			violate_lower	ATM: Violate limit lower bound	Failed - IllegalArgumentException Failed - Expect Script Interpreting -1 as a command	TransactionScript.getAmount() did not reject negative numbers from being input. The child scripts did not perform a negation check (since it was supposedly implied by getAmount()) and passed the illegal argument to the Transaction class constructor where the illegal value was detected.	Added check for negative values in the getAmount() function and prints specific error to screen when encountered Added escape characters to expect script to ensure strings read from files were treated as string literals or string patterns rather than expect commands	passed
ATM: Daily total cannot exceed 5000\$ for any given account	R12T9	Machine Daily Account Transfer Limit Validation		violate_daily	ATM: Violate 10000\$ account transfer limit	Pattern did not match	Message did not match "violated" instead of "exceeded"	Changed "violated" to "exceeded" Fix in the expected output file: Changed Changed lines matching "Account#" to "#" and "Amount\$" to "e" for more general pattern matchingstring to "exceeded"	passed
Account List Login (Extra checks, not implemented)									
Each line is exactly 7 numbers	R13T1	Invalid Accounts Login	invalid_list	reject_invalid	Reject list with invalid account number	n/a	n/a	n/a	n/a
No accounts can start with 0	R13T2	Invalid Accounts Login		reject_zero_prefix	Reject list with invalid account number	n/a	n/a	n/a	n/a
The list ends w/ special account 0000000	R13T3	Invalid Accounts Login		reject_missing	Reject list with invalid file terminator	n/a	n/a	n/a	n/a
Read account list on login	R13T4	Empty Accounts Login	empty_list	login	Reject non-existent account file	n/a	n/a	n/a	n/a
Issue! If there are no accounts to complete transactions with, don't ask for an account and return to main menu	R13T5	Empty Accounts Withdraw		withdraw	Reject withdraw if no accounts available	n/a	n/a	n/a	n/a
	R13T6	Empty Accounts Deposit		deposit	Reject deposit if no accounts available	n/a	n/a	n/a	n/a
	R13T7	Empty Accounts Transfer		transfer	Reject transfer if no accounts available	n/a	n/a	n/a	n/a
	R13T8	Empty Accounts Delete		deleteacct	Reject deleteacct if no accounts to delete	n/a	n/a	n/a	n/a
	R13T9	Empty Accounts Create		createacct	Accept createacct if no accounts in list	n/a	n/a	n/a	n/a
Transaction Output Test (Extra checks, not implemented)									
Transaction codes must be one of NEW, DEL, WDR, DEP, XFR, EOS	R14T1	Transaction Code Verification	codes	validate	Verify all codes in output files are valid	n/a	n/a	n/a	n/a
Transaction file must end with EOS line	R14T2	Transaction End Code Verification		eos	Ensure the last code is EOS	n/a	n/a	n/a	n/a
Unused fields must be filled with placeholder strings	R13T3	Transaction Placeholder Verification	placeholders	Transaction Placeholder Verification	Verify all placeholder values in the transaction file are either 000000 for accounts, 000 for amounts, and "" for names	n/a	n/a	n/a	n/a