Function	Type	Initial System State	Description	How to Reproduce Bug	Expected Output	Actual Output	Program Version	Status
Deposit Money	EXP	System is requesting that customer insert an envelope	When a user deposits money into the system, 10 dollars are subtracted from the total balance after the deposite has been made	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter the PIN 42 for the card Choose the "Deposit" transaction option Choose "Savings" account Enter deposit value of $20.00 Insert Envelope Look at the receipt	Total Balance = $1020.00 Available = $1000.00	Total Balance = $1010.00 Available = $1000.00	1.0 1.1	In-Progress Defect still exists in version 1.1, except the value lost is now $0.10 instead of $10.00
Withdraw Money	EXP	System is asking to select an option for the amount to withdraw	When a user selects one of the 5 options to withdraw, the next option is selected automatically, causing an incorrect withdrawal	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter the PIN 42 for the card Choose the "Withdraw" transaction option Choose "Checkings" account Select option 1: "1) $20" Look at the receipt	Total Balance = $80.00 Available = $80.00	Total Balance = $60.00 Available = $60.00	1.0	Resolved
Print Receipt	EXP	System performs a legitimate transaction properly (any transaction type)	When the user performes any transaction, withdrawal, deposit, transfer, or balance Inquiry the card number is incorrectly displayed on the receipt. The receipt shows the original card number plus one. So if the card number is 2, the receipt shows a card number of 3.	Turn on ATM Enter amount of $20 bills, (Entered 20) Click to insert card Enter card number 1 Enter PIN 42 for card 1 Select Withdraw by hitting 1 on the numpad Select Checking by hitting 1 on the numpad Select option 1, by hitting 1 on the numpad Wait for the receipt to display Look at the receipt's card number	First National Bank of Podunk ATM #42 Gordon College CARD 1 TRANS #1 WITHDRAWAL FROM: CHKG AMOUNT: $40.00 TOTAL BAL: $60.00 AVAILABLE: $60.00	First National Bank of Podunk ATM #42 Gordon College CARD 2 TRANS #1 WITHDRAWAL FROM: CHKG AMOUNT: $40.00 TOTAL BAL: $60.00 AVAILABLE: $60.00	1.0 1.1	In-Progress Defect still exists version 1.1
Another Transaction	EXP	System is requesting that the user choose whether they want to perform another transaction or leave. System performs a legitimate transaction properly (any transaction type)	Infinite money glitch. Do any transaction, then get to the screen that says would you like to do another transaction, then if you hit any number other than 1 or 2, you will receive 20$	Turn on ATM Enter amount of $20 bills, (Entered 20) Click to insert card Enter card number 1 Enter PIN 42 for card 1 Select Balance Inquiry by pressing 4 on the numpad Select Checking by pressing 1 on the numpad Wait for the system to finish displaying receipt After the system displays "Wood you like to do another transaction", hit the number 3 on the numpad $20 will be dispensed	Nothing should happen	$20 dollars are dispensed	1.0 1.1	In-Progress Defect is partly fixed, when number 4-9 are pressed nothing happens but if number 3 is pressed the bug still exists
Transfer Money	EXP	System is asking users to choose the accounts the transfer is going to occur between.	When you transfer money from one account to another, the atm conducts the transfer in the opposite order. For example, if you transfer money from your savings account to your checkings account, the atm will say that it transfers money from checkings to savings.	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter the PIN 42 for the card Choose the "Transfer" transaction option Choose "Savings" as the account to transfer from Choose "Checking" as the account to transfer from Enter transfer value of $50.00 Focus on receipt	TRANSFER FROM: SVGS TO: CHKG	TRANSFER FROM: CHKG TO: SVGS	1.0 1.1	In-Progress Defect still exists in version 1.1
Transfer Money	EXP	System is asking users to choose the accounts the transfer is going to occur between.	When you transfer money from one account to another, there is a 50 cent loss in the amount that is being transferred, even though there is no transfer fee specified.	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter the PIN 42 for the card Choose the "Transfer" transaction option Choose "Savings" as the account to transfer from Choose "Checking" as the account to transfer from Enter transfer value of $50.00 Look at the receipt	AMOUNT: $50.00 TOTAL BAL: $150.00 AVAILABLE: $150.00	AMOUNT: $49.50 TOTAL BAL: $149.50 AVAILABLE: $149.50	1.0	Resolved
Deposit Money	EXP	System is requesting that customer insert an envelope	When you deposit money, the available balance does not change ever, even after you give it time for the bank to process the transaction, but the total balance does change (albeit incorrectly).	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter the PIN 42 for the card Choose the "Deposit" transaction option Choose "Savings" account Enter deposit value of $20.00 Insert Envelope Choose "Yes" when asked if you would like to do another transaction Repeat the same transaction and deposit another $20.00 Look at the receipt	Total Balance = $1040.00 Available = $1020.00	Total Balance = $1020.00 Available = $1000.00	1.0 1.1	In-Progress Defect still exists in version 1.1
Deposit Money	EXP	system is requesting the user to input an amount they want to deposit	when a user tries to deposit a large amount, in our case it was $999,999,999.99, the ATM gets stuck and gives no option to insert the envelope.	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter the PIN 42 for the card Choose the "Deposit" transaction option Choose "Savings" account Enter deposit value of $999,999,999.99	Click to insert envelope	n/a	1.0 1.1	In-Progress Defect still exists in version 1.1

Transaction	Type	Description	Defect	Steps	Expected	Actual	Version	Status
Chosing Next transaction	EXP	System is requesting that the user choose whether they want to perform another transaction or leave.	When the system is asking whether the user would like to make another transaction or if they would like to leave, the word "Would" is spelt incorrectly.	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter the PIN 42 for the card Choose the "Deposit" transaction option Choose "Savings" account Enter deposit value of $20.00 Insert Envelope Wait for receipt to print Look at the ATM screen	Would you like to do another transaction? 1) Yes 2) No	Wood you like to do another transaction? 1) Yes 2) No	1.0	Resolved
Chosing Next transaction	EXP	System is requesting that the user choose a transaction type	When the system is asking the transaction type, if the user enters any number other than 1, 2, 3, or 4 they will recive $20.00 dollars from the ATM	Trun on ATM Enter amount of $20 bills, (Entered 20) Click to insert card Enter card number 1 Enter PIN 42 for card 1 Hit the number 5 on the numpad	Nothing should happen	$20 dollars are dispensed	1.0 / 1.1	In-Progress Defect is partly fixed, when number 6-9 or 0 are pressed nothing happens but if number 5 is pressed the bug still exists
Balance Inquiry	EXP	System is requesting that the user pick which account to check the balance from	When the user of card 1 goes to check their balance, and pick the money market option an error occurs which displays unknown error on the screen and also gives $500.00 dollars to the user	Turn on ATM Enter amount of $20 bills, (Entered 20) Click to insert card Enter card number 1 Enter PIN 42 for card 1 Select Balance Inquiry by hitting 4 on the numpad Select Money Market by hitting 2 on the numpad	Should display the amount of money in the account	Unknown Error is displayed and $500.00 are dispensed	1.0 / 1.1	Resolved, fixed in version 1.1
Balance Inquiry	EXP	System is requesting user to choose transaction type	When the user, using card 1, clicks Balance Inquiry to check their balance, it shows a Money Market account instead of a savings account.	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter the PIN 42 for the card Choose the "Balance inquiry" transaction option Look at the options	Account to inquire from 1) Checking 2) Savings	Account to inquire from 1) Checking 2) Money Market	1.0	Resolved Now shows "savings" as well as "Money Market"
Balance Inquiry	EXP	System is requesting the user to choose the Account they want to inquire from	When the user, using card 2, clicks "Money Market" to inquire from that account, it says that it is an "invalid account type"	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 2 Enter the PIN 1234 for the card Choose the "Balance inquiry" transaction option Choose "Money Market" account Look at the ATM screen	TOTAL BAL = $5000.00 AVAILABLE = $5000.00	Invalid account type Wood you like to do another transaction? 1) Yes 2) No	1.0	Resolved
Withdrawal	MFT	System asks customer to choose a dollar amount to withdraw	When the system shows a menu of possible widhrawal amounts the third option says 60, should be $60	Turn on ATM Enter amount of $20 bills (Entered 20) Insert card and enter card number 1 Enter the PIN 42 for the card Choose the Withdrawal option by hitting 1 on the numpad Choose checking account by hitting 1 on the numpad Look at the menu of possible withdrawal amounts	Amount of cash to withdraw 1) $20 2) $40 3) $60 4) $100 5) $200	Amount of cash to withdraw 1) $20 2) $40 3) 60 4) $100 5) $200	1.0 / 1.1	Dose not exist in version 1.0 Bug occurs in version 1.1
Deposit	MFT	System is requesting that customer insert an envelope	After the user inserts the envelope, a receipt is printed. The receipt shows that 10 dollars are subtracted from the total balance after the deposit has been made.	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter the PIN 42 for the card Choose the "Deposit" transaction option Choose "Savings" account Enter deposit value of $20.00 Insert Envelope Look at the receipt	AMOUNT: $20.00 TOTAL BAL: $1020.00 AVAILABLE: $1000.00	AMOUNT: $20.00 TOTAL BAL: $1010.00 AVAILABLE: $1000.00	1.0 / 1.1	In-Progress Defect still exists in version 1.1. It now subtracts $0.10 instead of $10.00
Transfer	MFT	System is displaying a request for the customer to type a dollar amount	When money is transferred from savings to checkings, the reciept shows that it transfers from checkings to savings instead. $0.50 is also lost when money is transferred between accounts.	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter the PIN 42 for the card Choose the "Transfer" transaction option Choose "Savings" as the account to transfer to Choose "Checking" as the account to transfer from Enter transfer value of $20.00 Focus on receipt	TRANSFER FROM: SVGS TO: CHKG AMOUNT: $20.00 TOTAL BAL: $120.00 AVAILABLE: $120.00	TRANSFER FROM: CHKG TO: SVGS AMOUNT: $19.50 TOTAL BAL: $119.50 AVAILABLE: $119.50	1.0 / 1.1	In-Progress Defect still exists in version 1.1. It transfers the correct amount, however, it still says that it transfers from checking to savings instead of savings to checking
Invalid PIN Extension	MFT	Request to re-enter PIN number is being displayed	After the user enters an incorrect PIN the first time a message to re-enter the PIN is displayed, but if the user now enters the correct PIN the original transaction is not completed, and instead the user is told to enter the correct PIN number again	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter incorrect PIN number 56 You should now be at the screen the displays the message to re-enter the PIN number Enter the correct PIN number 42	Original transaction should be completed and the user should be let into their account	User is not let into their account and is instead made to re-enter the correct PIN number	1.0 / 1.1	In-Progress Defect still exists in version 1.1

Invalid PIN Extension	MFT	Request to re-enter PIN number is being displayed	After the user enters an incorrect PIN the first time a message to re-enter the PIN is displayed. After they re-enter an incorrect PIN a second time, they are shown the same re-entry message. But now, if the user enters the correct PIN the original transaction is not completed, and instead the user is told to enter the correct PIN number again.	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter incorrect PIN number 56 You should now be at the screen the displays the message to re-enter the PIN number Enter the correct PIN number 42	Original transaction should be completed and the user should be let into their account	User is not let into their account and is instead made to re-enter the correct PIN number	1.0 1.1	In-Progress Defect still exists in version 1.1
Invalid PIN Extension	MFT	Request to re-enter PIN number is being displayed	After the user enters an incorrect PIN the first time a message to re-enter the PIN is displayed, but if the user now enters the correct PIN the original transaction is not completed, and instead the user is told to enter the correct PIN number again	Turn on ATM. Enter amount of $20 bills (i.e. 50) Insert Card and enter card number 1 Enter incorrect PIN number 56 You should now be at the screen the displays the message to re-enter the PIN number Again enter incorrect PIN number 56 You should now be at the screen the displays the message to re-enter the PIN number Enter the correct PIN number 42	Original transaction should be completed and the user should be let into their account	User is not let into their account and is instead made to re-enter the correct PIN number	1.0 1.1	In-Progress Defect still exists in version 1.1