

| Transaction | Observed Test Failure | Test Name | What It Was Testing | How Its Output Was Wrong | What The Error In The Code Was | How You Changed The Program Or Test Input |
|-------------|--|-----------|---|--|---|---|
| login | Test failed because of an end of file error | r1t1 | Check that you cannot logout before logging in | End of file error should not have occurred, since it made the test fail | The error was in the test case, because program was expecting more inputs and the only input I provided was 'logout' | Changed the terminal_input variable from 'logout' to ['logout', 'login', 'atm', 'logout'] |
| login | Test failed because it was expecting 'EOS', not 'NONE' | r1t1 | Check that you cannot logout before logging in | Output of program itself was not wrong; it was not same as what was written in the test | There was no error in code, since it did write 'EOS' to file as it was supposed to | Changed expected_output_transactions from 'None' to 'EOS' |
| withdraw | ValueError | R6T4 | Checking that user cannot withdraw with an empty account field | The output of the program was a ValueError whereas the test case expected "Transaction 2 - Please enter type of transaction: Your session has ended" | The program did not handle a ValueError that occurs when the user presses the 'Enter' key instead of an appropriate value | Added a check in the program to confirm that the user input is a numeric value via the method isdigit() |
| withdraw | ValueError | R6T5 | Checking that the user cannot withdraw with an empty amount field | The output of the program was a ValueError whereas the test case expected "Transaction 2 - Please enter type of transaction: Your session has ended" | The program did not handle a ValueError that occurs when the user presses the 'Enter' key instead of an appropriate value | Added a check in the program to confirm that the user input is a numeric value via the method isdigit() |
| createacct | Program did not handle a case correctly | R3T7 | Checking that the user can create an account with a valid account name and number | The output of the program was an error statement saying that the user did not enter a valid account name whereas the test case expected "Transaction 2 - Please enter type of transaction: Your session has ended" | Program did not handle the case where a user enters first name and last name for the account name (e.g. "John Doe") as it detected the space in the middle as an error | Added a check in the program to confirm that the account name entered is alphanumeric (via accountName.isalnum()) or has a space (via accountName.isspace()) and does not begin or end with a space |
| deleteacct | Terminal output did not show the right error | R4T1 | Cannot delete an account with an empty account number field | Terminal output was not as expected | Did not take into account for empty account number field | Added an if statement, to check if the input statement is left empty |
| deleteacct | Only EOS file was written into | R4T5 | Check that account name and account number is valid | Displayed only the EOS transaction when it is supposed to display the 'DEL' transaction of the deleted account also. | No error in the code, but modifications were made since a constraint was left out. Now after the deleteacct transaction the user will be automatically logout and not allowed to perform any further transaction on that deleted account. [This modification will also remove a few test cases created earlier] | The account number was inputted first and then the account name in the test input |
| Deposit | Test failed since it was also expecting 'DEP 1234567 13000 0000000 ****' in the transaction summary file | R5T3 | Check if the deposit transaction runs as it should with all the right input. | It only displayed the EOS error and it did not register the deposit transaction into the transaction summary file | Error if the code was formed when I changed the EOS format to satisfy a different test case | Made small changes to the EOF transaction line format so that it won't overwrite the file and made small changes to the test input, so that the test case would pass |
| Deposit | Invalid literal for int() with base 10 | R5T6 | Cannot enter anything non numeric for the deposit amount | front_end program did not accept the invalid input well, it logged out without crashing gracefully | We did not take into account for an input other than numeric value | The program was changed and a if and else statement was used with .isdigit(), to check if the input value was a number |
| Deposit | Only EOS file was generated | R5T11 | Check if the user can deposit from the agent type login and above the atm limit. | It only outputted the EOS file, when it should have outputted the "DEP" transaction file first and then the EOS transaction line. | There was no error in the code, error was in the test input. | Changed privilege from atm to agent |
| Transfer | AssertionError | R7T8 | checks that amount is not negative | The program expected an EOS transaction output, but received a valid transaction | Program did not handle the case where a user enters a negative number | added an if statement to check if amount to be transferred is negative |
| Transfer | AssertionError | R7T9 | checks that amount is not 0 | The program expected an EOS transaction output, but received a valid transaction | Program did not handle the case where a user enters a zero | added an if statement to check if amount to be transferred is zero |

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| Transfer | ValueError: invalid literal for int() with base 10: " | R7T10 | checks that transfer amount feild is not empty | Unexpected EOF since program crashed | The input from the user was directly converted to int without a try-except check | added a try-except block to catch Value error if user enters non-integer input |
| Transfer | Expected output did not match | R7T14 | destination account is the same as the current account | The program expected an EOS transaction output, but received a valid transaction | There was no check on transferring between the same account | Changed the code to check for identical account numbers for origin account and destination account |