Cover Letter

How we ran each test

1 – source code for delete

2 – analysis of test cases necessary, Decision, so analysis of every decision statement in delete and how to make each decision go both ways

4 – test report with results from running each test case, includes failures

**Withdraw**

**Source Code**

elif (transCopy[0] == '02'):

for acct in range(len(masterAccts)):

if (master[acct][0] == transCopy[1]):

acctBalance = int(master[acct][1])

depAmount = int(transCopy[3])

acctBalance -= depAmount

master[acct][1] = str(master[acct][1])

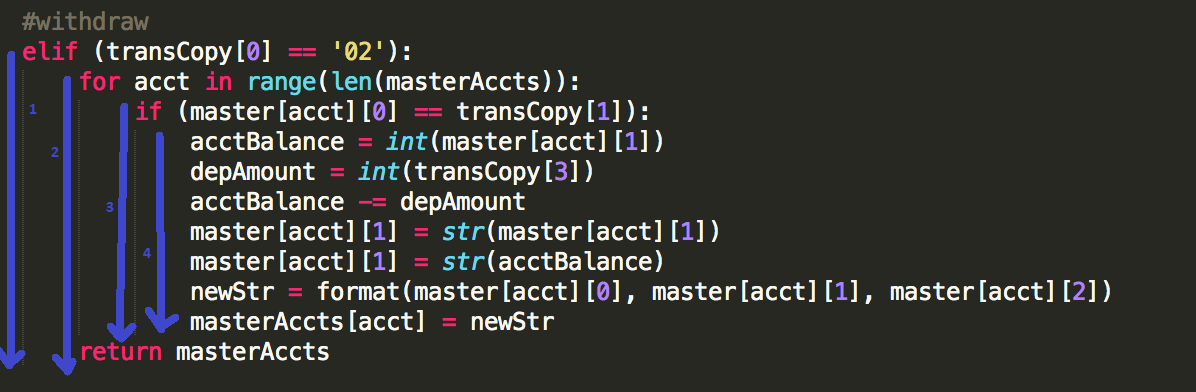
master[acct][1] = str(acctBalance)

newStr = format(master[acct][0], master[acct][1], master[acct][2])

masterAccts[acct] = newStr

return masterAccts

**Analysis of Test Cases for Basic Block Testing**

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We have 4 basic blocks to cover for our Withdrawals in the back end.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Block | transCopy[0] | masterAccts | master[acct][0] | transCopy[1] | Test |
| 1 | 02 | empty | empty | 000001 | 1 |
| 2 | 02 | 1 account | 000001 | 000002 | 2 |
| 3 | 02 | 1 account | 000001 | 000001 | 3 |
| 4 | 02 | 1 account | 000001 | 000001 |  |

**Actual Test Inputs for each Case**

Test 1

Merged Transactions file:

02\_000001\_BBBBBB\_00000000\_NNNNNNNNNNNNNNN

Master Accounts file: Empty

Test 2

Merged Transactions file:

02\_000002\_BBBBBB\_00000100\_NNNNNNNNNNNNNNN

Master Accounts file:

000001\_00001000\_ Bob

Test 3

Merged Transactions file:

02\_000001\_BBBBBB\_00000100\_Bob

Master Accounts file:

000001\_00001000\_ Bob

**Test Report**

|  |  |  |  |
| --- | --- | --- | --- |
| TEST # | Results | Failure (Yes/No) | Analysis |
| 1 | Empty Master accounts, and empty valid accounts files | No | Test 1 gave the correct output for the input |
| 2 | Printed incorrect master accounts, and valid accounts | Yes | Cause: incorrect format function in backend, leading to the return of a hard-coded string |
| 3 | Printed incorrect master accounts, and valid accounts | Yes | Cause: incorrect format function in backend, leading to the return of a hard-coded string |
| 2 | Incorrect output | Yes | Incorrect merged transactions file |
| 3 | Correct output, and updated master and valid accounts | No | Test 3 gave the correct output for the input on the second run |
| 2 | Correct output and updated master and valid accounts | No | Test 2 gave the correct output for the input on the third run |

**How Withdraw tests were executed**