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BackEnd Whitebox Testing: Withdraw

Source Listing

Withdraw method

```
private static void withdraw(String accountNumber, int amount, String accountName) {

Account tempAccount = accounts.get(accountNumber);

if (!tempAccount.getAccountName().equals(accountName)) {

System.out.println("Failed Constraint Log: the name given in a withdraw transaction" +

" must match the name associated with the withdrawing account");

return;

}

if (tempAccount.getBalance() - amount < 0) {

System.out.println("Failed Constraint Log: no account should ever have a negative balance");

} else {

tempAccount.setBalance(tempAccount.getBalance() - amount);

}

}
```

Lines 225-236 (total 3 cases)

Analysis

Test method: Basic Block Testing

Test	Lines to cover	Test File 1	Test File 2
Case	(excludes lines		
	of just syntax)		
1	224-229	"oldMasterAccounts.txt"	"mergedTransactionSummaryFile1.txt"
2	224-226,	"oldMasterAccounts.txt"	"mergedTransactionSummaryFile2.txt"
	231-232,		
	236		
3	224-226,	"oldMasterAccounts.txt"	"mergedTransactionSummaryFile3.txt"
	233-234,		
	236		

Test Inputs

Test Case 1

mergedTransactionSummaryFile1.txt

WDR 1234567 50000 0000000 BILLY EOS EOS

OldMasterAccounts.txt

7654321 100 BILLY 1234567 100000 MICHAEL

Test Case 2

mergedTransactionSummaryFile2.txt

WDR 7654321 50000 0000000 BILLY EOS EOS

OldMasterAccounts.txt

7654321 100 BILLY 1234567 100000 MICHAEL

Test Case 3

mergedTransactionSummaryFile3.txt

WDR 1234567 50000 0000000 MICHAEL EOS EOS

OldMasterAccounts.txt

7654321 100 BILLY 1234567 100000 MICHAEL

Test Report

Test Case	Test Result	Method Result
1	Ran as expected and hit every line as	Non-matching account number and name.
	expected	Error message printed.
2	Ran as expected and hit every line as	Cannot withdraw more than account
	expected	balance. Error message printed
3	Ran as expected and hit every line as	Successfully withdrawn
	expected	