## Modifications to Template

Modifications made to the template 'CI-Python' by Professor Ding include:

- Modifying the names of the test case input and output files to match the test case files from our group's various directories
- Changing the os.linesep character to "\n" so it would work on Windows (which uses carriage return as well as newline to pass input to io.StringIO)
- Folder structure does not match Ding's suggestions. The changes made include the hierarchy of using T# for individual tests within a given requirement folder, whereas Ding only has the R# as the folder
- Modified the name of the accounts file to be 'accounts.txt' to match our structure

## Table of Test Outcomes + Remedies

Transaction Code	Requirement	Test Case	Problem	Remedy	Outcome
login	R1	T1	Missing 'logout' from input	Add 'logout' to input; modify code to end once logged out	PASS
login	R1	T2	Missing 'logout' from input	Add 'logout' to input; modify code to end once logged out	PASS
login	R1	ТЗ	Missing 'logout' from input	Add 'logout' to input; modify code to end once logged out	PASS
login	R1	T4	Missing 'logout' from input	Add 'logout' to input; modify code to end once logged out	PASS
login	R1	T5	Missing 'logout' from input	Add 'logout' to input; modify code to end once logged out	PASS
login	R1	T6	Missing 'logout' from input	Add 'logout' to input; modify code	PASS

				to end once	
login	R2	T1	Unable to logout from mode selection	Modify code to allow user to log out from mode selection	PASS
login	R3	T1	Missing 'logout' from input	Add 'logout' to input; modify code to end once logged out	PASS
login	R3	T2	Could use createacct from machine mode	Modify code to fix bug that allows users to createacct from machine	PASS
login	R3	T2	Could use deleteacct from machine mode	Modify code to fix bug that allows users to deleteacct from machine	PASS
login	R4	T1	Missing transaction summary file	Add transaction summary file (expected) to test case	PASS
login	R5	T1	Unable to logout from mode selection	Modify code to allow user to log out from mode selection	PASS
login	R6	T1		<u></u>	PASS
login	R6	T2		-	PASS
login	R6	T3		-	PASS
login	R6	T4	Test case output didn't grammatically match program output	Modify program output to match test case output	PASS
login	R7	T1		-	PASS
login	R7	T2		-	PASS

login	R7	Т3	Program could accept empty accounts file	Modify program to fail upon an empty list	PASS
l I	D4	T4		file	DACC
logout	R1	T1			PASS
logout	R2	T1			PASS
logout	R2	T2		-	PASS
logout	R2	T3		<u> </u>	PASS
logout	R2	T4		-	PASS
logout	R2	T5		<u> </u>	PASS
logout	R2	Т6		-	PASS
logout	R3	T1			PASS
createacct	R1	T1	Test case output didn't grammatically match program output	Modify program output to match test case output	PASS
createacct	R1	T2			PASS
createacct	R2	T1	Input does not include a valid number following the invalid number	Add a valid number in the input after the invalid number is entered	PASS
createacct	R2	T2	Input does not include a valid number following the invalid number	Add a valid number in the input after the invalid number is entered	PASS
createacct	R2	T3			PASS
createacct	R3	T1	Input does not include a valid number following the taken number	Add a valid number in the input after the invalid number is entered	PASS
createacct	R3	T2			PASS
createacct	R4	T1	Input does not include a valid name following the invalid name	Add a valid name in the input after the invalid	PASS

				number is	
createacct	R4	T2	Input does not	entered Add a valid	PASS
			include a valid	name in the	
			name following	input after	
			the invalid name	the invalid	
				number is entered	
createacct	R4	Т3	Input does not	Add a valid	PASS
			include a valid	name in the	
			name following	input after	
			the invalid name	the invalid	
				number is entered	
createacct	R4	T4	Input does not	Add a valid	PASS
or careacet		1	include a valid	name in the	
			name following	input after	
			the invalid name	the invalid	
				number is	
				entered	
deleteacct	R1	T1			PASS
deleteacct	R1	T2	Program accepts	Modify code	PASS
			an account number to	to add each valid	
			delete that does	account to	
			not exist	an O(1)	
				dictionary to	
				allow for	
				quick lookup	
				to see if	
				number	
deleteacct	R2	T1		exists	PASS
deleteacct	R3	T1			PASS
deleteacct	R4	T1			PASS
deleteacct	R5	T1	Program accepts	Modify code	PASS
			deleteacct from	to deny	
			machine mode	deleteacct as	
				a valid	
				transaction	
				code when	
				in machine mode	
deleteacct	R6	T1	Test case	Remove	PASS
			includes logout	'login logout'	
			followed by	from input	
			furthers inputs	and simply	

deposit	R1	T1	which is illegal after the adjustments to logout (which now ends the program) Input does not include a valid account number after the invalid one	Add a valid account number following the invalid account	PASS
deposit	R1	T2	Input does not include a valid account number after the invalid one	number  Add a valid account number following the invalid account number	PASS
deposit	R1	T3		-	PASS
deposit	R1	T4			PASS
deposit	R2	T1	Input does not include a valid amount (cents) following the amount that exceeds the limit	Add valid amount (cents) following the amount that exceeds the limit	PASS
deposit	R2	Т2	Input does not include a valid amount (cents) following the amount that exceeds the limit	Add valid amount (cents) following the amount that exceeds the limit	PASS
deposit	R2	T3			PASS
deposit	R2	T4		-	PASS
deposit	R3	T1	Input does not include 000 following amount that would overflow daily limit	Include 000 after attempting to surpass limit	PASS
transfer	R1	T1	Input does not include valid account	Add two valid accounts to	PASS

				1	
			numbers	valid	
			following the	accounts	
			invalid sender	file: 4206969	
			and recipient	<mark>and</mark>	
			numbers; no	9999999;	
			valid accounts in	insert those	
			valid accounts	numbers	
			file	into each	
				input block	
transfer	R1	T2	Program does	Add a check	PASS
transier	0.1	12	not distinguish	to each	17.00
			between which	transfer	
			account	method that	
			(sender/receiver)	discerns	
			exists and which	which	
			does not	number is	
				nonexistent	
transfer	R1	T3	Program does	Add a check	PASS
			not distinguish	to each	
			between which	transfer	
			account	method that	
			(sender/receiver)	discerns	
			exists and which	which	
			does not	number is	
			aces not	nonexistent	
transfer	R1	T4	Test case does	Modify test	PASS
cransici	11.2	' '	not test sender	case input	17.00
			existence,	by reversing	
			instead tests	the numbers	
				the numbers	
f	D1	TE	recipient again		PASS
transfer	R1	T5			
transfer	R1	T6			PASS
transfer	R2	T1	No 000 value	Add 000 to	PASS
			given after	input after	
			amount that	invalid	
			exceeds limit,	amount	
			thus tests cannot		
			be completed		
transfer	R2	T2	No 000 value	Add 000 to	PASS
			given after	input after	_
			amount that	invalid	
			exceeds limit,	amount	
			thus tests cannot		
			be completed		
transfer	R2	T3	No 000 value	Add 000 to	PASS
u ansiei	11/2	13			I ASS
			given after	input after	
			amount that		

			ovecode limit	invalid	
			exceeds limit, thus tests cannot	invalid	
			be completed	amount	
transfer	R2	T4	No 000 value	Add 000 to	DACC
transier	NZ	14		input after	PASS
			given after	invalid	
			amount that		
			exceeds limit, thus tests cannot	amount	
transfer	D2	T1	be completed		PASS
	R3	T1			PASS
withdraw	R1				
withdraw	R1	T2			PASS
withdraw	R2	T1	No number or	Add random	PASS
			amount given in	invalid	
			test case	number and	
91.1				amount	
withdraw	R2	T2	No number or	Add random	PASS
			amount given in	invalid	
			test case	number and	
				amount	
withdraw	R3	T1		<u> </u>	PASS
withdraw	R3	T2		-	PASS
withdraw	R4	T1	No valid account	Add valid	PASS
			number or	account	
			amount	number and	
			following invalid	amount	
			number	following	
				number	
withdraw	R4	T2	No valid account	Add valid	PASS
			number or	account	
			amount	number and	
			following invalid	amount	
			number	following	
				number	
withdraw	R4	Т3	Program does	Wrap each	PASS
			not catch	amount	
			amounts that are	check with a	
			not integers	try/except	
				that	
				accounts for	
				the user not	
				giving an	
				integer	
withdraw	R4	T4			PASS
withdraw	R5	T1	Program	Modify code	PASS
			machine	to meet	
				\$1,000 limit	

			withdraw limit incorrect	instead of \$10,000	
withdraw	R5	T2	No 000 after invalid amount	Add 000 after invalid amount	PASS
withdraw	R6	T1	Test case does not test machine mode; test case does not breach limit	Redesign test case to threaten machine limit and then enter 000 to leave while loop and log out	PASS
withdraw	R6	T2			PASS
transactionsummaryfile	R1	T1	Program does not check line limit	Add check for line limit before each write to the transaction summary file	PASS
transactionsummaryfile	R1	T2			PASS
transactionsummaryfile	R1	T3		-	PASS
transactionsummaryfile	R1	T4		-	PASS
transactionsummaryfile	R1	T5		-	PASS
transactionsummaryfile	R1	T6		-	PASS
transactionsummaryfile	R1	T7		-	PASS
transactionsummaryfile	R1	T8		-	PASS
transactionsummaryfile	R1	Т9		-	PASS
validaccountslistfile	R1	T1	Code did not inspect each number length	Redesigned valid accounts list to check length	PASS
validaccountslistfile	R1	T2	Code did not inspect each number length	Redesigned valid accounts list to check length	PASS
validaccountslistfile	R2	T1	Code did not inspect numbers to check for 0 beginning	Redesigned valid accounts list to check for 0 beginning	PASS
validaccountslistfile	R2	T2	Code did not inspect numbers	Redesigned valid accounts list	PASS

			to check for 0 beginning	to check for 0 beginning	
validaccountslistfile	R3	T1	Code did not inspect for mandatory special character	Redesigned valid accounts list to check for mandatory special character	PASS
validaccountslistfile	R3	T2	Code did not inspect each valid number	Redesigned valid accounts list check	PASS