Project Report

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1. Model-based testing of the Account class

Transition-Pair Testing

State: idle

In: T1, T6, T5, T10, T9, T7

Out: T2, T7

State: check pin

In: T3, T2

Out: T18, T5, T6, T8, T3

State: ready

In: T11, T12, T13, T17, T16, T18

Out: T11, T12, T13, T4, T10, T14

State: overdrawn

In: T8, T21, T22, T19, T14

Out: T9, T16, T20, T22, T21

State: Locked

In: T20, T4, T15

Out: T15, T19, T17

Transitions pairs for State Idle

In: T1, T6, T5, T10, T9, T7

Out: T2, T7

Incoming	Outgoing	Test Case
T1	T2	1
T1	T7	2
T6	T2	5
T6	T7	6
T5	T2	25
T5	T7	26
T10	T2	10
T10	T7	7
T9	T2	9
T9	T7	8
T7	T2	2
T7	T7	2

Transitions pairs for state check pin

In: T3, T2

Out: T18, T5, T6, T8, T3

Incoming	Outgoing	Test Case
T3	T18	24
T3	T5	26
T3	T6	2
T3	T8	3
T3	T3	2
T2	T18	5
T2	T5	25
T2	T6	Impossible
T2	T8	2
T2	T3	2

T2, T6 - impossible because we have to make at least 2 attempts to reach T6 but making attempts means moving to T3

Transitions pairs for state ready

In: T11, T12, T13, T17, T16

Out: T11, T12, T13, T4, T10, T14

Incoming	Outgoing	Test Case

T11	T11	5
T11	T12	6
T11	T13	7
T11	T4	18
T11	T10	5
T11	T14	13
T12	T11	5
T12	T12	4
T12	T13	6
T12	T4	17
T12	T10	4
T12	T14	14
T13	T11	7
T13	T12	10
T13	T13	6
T13	T4	16
T13	T10	6
T13	T14	14
T17	T11	18

T17	T12	17
T17	T13	16
T17	T4	19
T17	T10	19
T17	T14	20
T16	T11	15
T16	T12	4
T16	T13	10
T16	T4	16
T16	T10	3
T16	T14	12
T18	T11	6
T18	T12	5
T18	T13	7
T18	T4	17
T18	T10	15
T18	T14	14

Transitions pairs for overdrawn

In: T8, T21, T22, T19, T14

Out: T9, T16, T20, T22, T21

Incoming	Outgoing	Test Case
T8	T9	8
T8	T16	3
T8	T20	21
T8	T22	9
T8	T21	1
T21	T9	11
T21	T16	4
T21	T20	21
T21	T22	1
T21	T21	1
T22	T9	1
T22	T16	12
T22	T20	20
T22	T22	1
T22	T21	16
T19	T9	21
T19	T16	22

T19	T20	23
T19	T22	20
T19	T21	20
T14	T9	12
T14	T16	13
T14	T20	20
T14	T22	13
T14	T21	13

Transitions pairs for state Locked

In: T20, T4, T15
Out: T15, T19, T17

Incoming	Outgoing	Test Case
T20	T15	20
T20	T19	20
T20	T17	Impossible
T4	T15	17
T4	T19	Impossible
T4	T17	16
T15	T15	17
T15	T19	20

T15	T17	17

T20 and T17 - Impossible because lock T 20 cannot be unlocked by unlock T17 because balance doesn't change in lock state.

Similarly, T4 and T19 are also impossible for the same reason as above.

Test Cases:

Test#1: open 123 88 25 login 123 pin 88 deposit 125 deposit 25 balance balance logout

    (T1, T2), (T2, T8), (T8, T21), (T21, T21), (T21, T22), (T22, T22), (T22, T9)

Test#2: open 123 88 25 login 124 login 125 login 123 pin 77 pin 87 pin 89

    (T1, T7), (T7, T7), (T7, T2), (T2, T3), (T3, T3), (T3, T6)

Test#3: open 123 88 25 login 123 pin 77 pin 88 deposit 200 logout

    (T1, T2), (T2, T3), (T3, T8), (T8, T16), (T16, T10)

Test#4: open 123 88 100 login 123 pin 88 deposit 50 deposit 100 deposit 100 logout

    (T1, T2), (T2, T8), (T8, T21), (T21, T16), (T16, T12), (T12, T12), (T12, T10)

Test#5: open 123 88 300 login 123 pin 77 pin 78 pin 87 login 123 pin 88 deposit 100 withdraw 50 withdraw 50 logout

    (T1, T2), (T2, T3), (T3, T3), (T3, T6), (T6, T2), (T2, T18), (T18, T12), (T12, T11), (T11, T11), (T11, T10)

Test#6: open 123 88 300 login 123 pin 78 pin 79 pin 80 login 124 login 123 pin 88 withdraw 50 deposit 100 balance balance logout

    (T1, T2), (T2, T3), (T3, T3), (T3, T6), (T6, T7), (T7, T2), (T2, T18), (T18, T11), (T11, T12), (T12, T13), (T13, T13), (T13, T10)

Test#7: open 123 88 300 login 123 pin 88 balance logout login 124 login 123 pin 88 balance withdraw 100 balance logout

    (T1, T2), (T2, T18), (T18, T13), (T13, T10), (T10, T7), (T7, T2), (T2, T18), (T18, T13), (T13, T11), (T11, T13), (T13, T10)

Test#8: open 123 88 100 login 123 pin 88 logout login 124

    (T1, T2), (T2, T8), (T8, T9), (T9, T7)

Test#9: open 123 88 100 login 123 pin 88 balance logout login 123

   (T1, T2), (T2, T8), (T8, T22), (T22, T9), (T9, T2)

Test#10: open 123 88 100 login 123 pin 88 deposit 200 balance deposit 100 logout login 123

   (T1, T2), (T2, T8), (T8, T16), (T16, T13), (T13, T12), (T12, T10), (T10, T2)

Test#11: open 123 88 100 login 123 pin 88 deposit 50 logout

   (T1, T2), (T2, T8), (T8, T21), (T21, T9)

Test#12: open 123 88 100 login 123 pin 88 deposit 50 balance deposit 200 withdraw 200 logout

   (T1, T2), (T2, T8), (T8, T21), (T21, T22), (T22, T16), (T16, T14), (T14, T9)

Test#13: open 123 88 300 login 123 pin 88 withdraw 50 withdraw 100 deposit 100 withdraw 100 balance deposit 100 withdraw 100 deposit 50 logout

   (T1, T2) (T2, T18), (T18, T11), (T11, T14), (T14, T16), (T16, T14), (T14, T22), (T22, T16), (T16,T14), (T14, T21), (T21, T9)

Test#14: open 123 88 300 login 123 pin 88 withdraw 150 deposit 100 deposit 100 withdraw 200 deposit 100 balance withdraw 100
   (T1, T2), (T2, T18), (T18, T14), (T14, T16), (T16, T12), (T12, T14), (T14, T16), (T16, T13), (T13, T14)

Test#15: open 123 88 300 login 123 pin 88 logout login 123 pin 88 withdraw 150 deposit 200 withdraw 100 logout

   (T1, T2), (T2, T18), (T18, T10), (T10, T2), (T2, T18), (T18, T14), (T14, T16), (T16, T11) (T11, T10)

Test#16: open 123 88 100 login 123 pin 88 balance deposit 50 deposit 100 lock 555 unlock 555 balance lock 555

   (T1, T2), (T2, T8), (T8, T22), (T22, T21), (T21, T16), (T16, T4), (T4, T17), (T17, T13), (T13, T4)

Test#17: open 123 88 300 login 123 pin 88 lock 555 balance balance unlock 555 deposit 100 lock 555

   (T1, T2), (T2, T18), (T18, T4), (T4, T15), (T15, T15), (T15, T17), (T17, T12), (T12, T4)

Test#18: open 123 88 300 login 123 pin 88 withdraw 50 lock 555 unlock 555 withdraw 50 logout

   (T1, T2), (T2, T18) (T18, T11), (T11, T4), (T4, T17), (T17, T11) (T11, T10)

Test#19: open 123 88 300 login 123 pin 88 lock 555 unlock 555 lock 555 unlock 555 logout

(T1, T2), (T2, T18), (T18, T4), (T4, T17), (T17, T4), (T4, T17), (T17, T10)

Test#20: open 123 88 250 login 123 pin 88 lock 555 unlock 555 withdraw 100 lock 555 balance unlock 555 balance lock 555 unlock 555 deposit 50 logout

(T1, T2), (T2, T18), (T18, T4), (T4, T17), (T17, T14), (T14, T20), (T20, T15), (T15, T19), (T19, T22), (T22, T20) (T20, T19), (T19, T21), (T21, T9)

Test#21: open 123 88 100 login 123 pin 88 lock 555 unlock 555 deposit 50 lock 555 unlock 555 logout

(T1, T2), (T2, T8), (T8, T20), (T20, T19), (T19, T21), (T21, T20), (T20, T19), (T19, T9)

Test#22: open 123 88 100 login 123 pin 88 lock 555 unlock 555 deposit 200 logout

(T1, T2), (T2, T8), (T8, T20), (T20, T19), (T19, T16), (T16, T10)

Test#23: open 123 88 100 login 123 pin 88 lock 555 unlock 555 lock 555

(T1, T2), (T2, T8), (T8, T20), (T20, T19), (T19, 20)

Test#24: open 123 88 100 login 123 pin 87 pin 88

(T1, T2), (T2, T3), (T3, T18)

Test#25: open 123 88 100 login 123 logout login 123

(T1, T2) (T2, T5), (T5, T2)

Test#26: open 123 88 100 login 123 pin 87 logout login 127

(T1, T2), (T2, T3), (T3, T5), (T5, T7)

All Non-Executable pairs:

(T20, T17), (T4, T19), (T2, T16)

Default (ghost) transitions

State Idle:

Method Execution	Test Case
Open (z, y, x)	**27**

pin(x)	**27**
logout ()	**27**
withdraw(w)	**27**
deposit(d)	**27**
balance ()	**27**
lock(x)	**27**
unlock(x)	**27**

Test Cases:

Test#27: open 123 23 122 open 1234 233 122 pin 233 logout withdraw 100 deposit 200 balance lock 1233 unlock 1233

state check pin:

Method Execution	Test Case
Open (z, y, x)	**28**
login ()	**28**
withdraw(w)	**28**
deposit(d)	**28**
balance ()	**28**
lock(x)	**28**
unlock(x)	**28**

Test Cases:

Test#28: open 123 23 500 login 123 open 234 23 500 login 234 withdraw 200 deposit 100 balance lock 555 unlock 555

state ready

Method Execution	Test Case
Open (z, y, x)	**29**
pin(x)	**29**

login ()	29
unlock(x)	29

Test Cases:

Test#29: open 123 23 500 login 123 pin 23 open 124 25 600 login 124 pin 25 unlock 555

State locked

Method Execution	Test Case
Open (z, y, x)	30
Login(x)	30
pin(x)	30
logout ()	30
withdraw(w)	30
deposit(d)	30
lock(x)	30
unlock(x) [x! = k]	30

Test Cases:

Test#30: open 123 23 50 login 123 pin 23 lock 555 open 124 23 500 login 124 pin 23 logout withdraw 100 deposit 100 lock 567 unlock 578

State Overdrawn

Method Execution	Test Case
Open (z, y, x)	31
Login(x)	31
pin(x)	31
withdraw(w)	31
unlock(x)	31

Test#31: open 123 23 50 login 123 pin 23 withdraw 700 open 124 25 500 login 124 pin 25 withdraw 100 unlock 333

3. Multiple-condition testing

Test Cases:

Method Open

$((x > 0) \&\& (x4 == -1) \&\& (y > 0) \&\& (z > 0))$

balance	state	pin	id	
x > 0	**x4 == -1**	**y > 0**	**z > 0**	**Test Case**
T	T	T	T	32
T	T	T	F	33
T	T	F	T	34
T	T	F	F	35
T	F	T	T	36
T	F	T	F	37
T	F	F	T	38
T	F	F	F	39
F	T	T	T	40
F	T	T	F	41
F	T	F	T	42
F	T	F	F	43
F	F	T	T	44
F	F	T	F	45
F	F	F	T	46
F	F	F	F	47

Test#32: open 123 88 100

    open - (T, T, T, T)

Test#33: open -123 88 200

    open - (F, T, T, T)

Test#34: open 123 -88 300

    open - (T, F, T, T)

Test#35: open -123 -88 400

    open - (F, F, T, T)

Test#36: open 123 88 500

    open - (T, T, F, T)

Test#37: open -123 88 600

    open - (F, T, F, T)

Test#38: open 123 -88 700

      open - (T, F, F, T)

Test#39: open -123 -88 800

      open - (F, F, F, T)

Test#40: open 123 88 0

      open - (T, T, T, F)

Test#41: open -123 88 -100

      open - (F, T, T, F)

Test#42: open 123 -88 -200

      open - (T, F, T, F)

Test#43: open -123 -88 -300

      open - (F, F, T, F)

Test#44: open 123 88 -400

      open - (T, T, F, F)

Test#45: open -123 88 -500

      open - (F, T, F, F)

Test#46: open 123 -88 -600

      open - (T, F, F, F)

Test#47: open -123 -88 -700

      open - (F, F, F, F)

Method Pin

$x4! = 1$ - Condition 1

$x4! = 1$	Test Case
T	48
F	48

x == x3 - Condition 2

x == x3	Test Case
T	48
F	49

x9 >= x0 - Condition 3

x9 >= x0	Test Case
T	50
F	48

Test#48: open 123 88 100 login 123 pin 88 logout pin 88

       Condition 1 - T
       Condition 1 - F
       Condition 2 - T
       Condition 3 - F

Test#49: open 123 88 100 login 123 pin 89 pin 88

       Condition 2 - F

Test#50: open 123 88 100 login 123 pin 87 pin 89 pin 90 logout

       Condition 3 - T

Method Login

x4! = 0 - Condition 1

x4! = 0	Test Case
T	53
F	51

x5 == x - Condition 2

x5 == x	Test Case
T	51
F	52

Test#51: open 123 88 100 login 123

     Login - Condition 1 - F
     Login - Condition 2 - T

Test#52: open 123 88 100 login 124

     Login - Condition 2 - F

Test#53: open 123 88 100 login 123 login 123

     Login - Condition 1 - T

method Logout

$((x4 == 0) \| (x2 == 1))$

x4 == 0	x2 == 1	Test Case
T	T	Impossible
T	F	55
F	T	56
F	F	54

Test#54: open 123 88 100 login 123 pin 88 logout

     Logout - (F F)

Test#55: open 123 79 100 login 123 pin 79 logout logout

     Logout - (T, F)

Test#56: open 127 88 100 login 127 pin 88 lock 566

     Logout - (F T)

Method Balance:

x4! = 2

x4! = 2	Test Case
T	57
F	58

Test#57: open 123 88 300 login 123 pin 88 balance

     Balance - T

Test#58: open 123 88 300 login 123 balance

     Balance - F

Method lock:

x4! = 2 - Condition 1

x4 != 2	Test Case
T	60
F	59

x == x3 - Condition 2

x == x3	Test Case
T	61
F	59

x2 == 0 - Condition 3

x2 == 0	Test Case
T	59
F	61

Test#59: open 123 66 450 login 123 pin 66 lock 556 lock 555

      Condition 1 - T
      Condition 2 - F
      Condition 3 - T
      Condition 3 - F

Test#60: open 123 66 500 login 123 lock 556

      Condition 1 - T

Test#61: open 123 66 450 login 123 pin 66 lock 66 lock 88

      Condition 2 - T

Method unlock:

x4 != 2   - Condition 1

x4 != 2	Test Case
T	64
F	62

((x2 == 1) && (x == x8)) - Condition 2

x2 == 1	x == x8	Test Case
T	T	62

T	F	63
F	T	65
F	F	66

Test#62: open 123 66 350 login 123 pin 66 lock 556 unlock 556

      Condition 1 - F
      Condition 2 - T, T

Test#63: open 123 66 350 login 123 pin 66 lock 556 unlock 420

      Condition 2 - T, F

Test#64: open 123 66 350 login 123 unlock 555

      Condition 1 - T

Test#65: open 123 66 350 login 123 pin 66 lock 556 unlock 556 unlock 556

      Condition 2 - F, T

Test#66: open 123 66 350 login 123 pin 66 lock 556 unlock 556 unlock 559

      Condition 2 - F, F

Method deposit:

$x4 \neq 2$ - Condition 1

$x4 \neq 2$	Test Case
T	72
F	67

$x2 == 1$ - Condition 2

$x2 == 1$	Test Case
T	71
F	67

$((x1 + d < x7) \&\& (d>0))$ - Condition 3

$x1 + d < x7$	$d>0$	Test Case
T	T	68
T	F	69
F	T	67
F	F	70

$d > 0$ - Condition 4

d > 0	Test Case
T	67
F	70

Test#67: open 123 66 500 login 123 pin 66 deposit 100

      Condition 1 - F
      Condition 2 - F
      Condition 3 - F, T
      Condition 4 - T

Test#68: open 123 66 50 login 123 pin 66 deposit 50

      Condition 3 - T, T

Test#69: open 123 66 50 login 123 pin 66 deposit 0

      Condition 3 - T, F

Test#70: open 123 66 300 login 123 pin 66 deposit 0

      Condition 3 - F, F
      Condition 4 - F

Test#71: open 123 66 300 login 123 pin 66 lock 555 deposit 100

      Condition 2 - T

Test#72: open 123 66 900 login 123 deposit 100

      Condition 1 - T

Method withdraw:

$x4! = 2$ - Condition 1

x4 != 2	Test Case
T	78
F	73

$x2 == 1$ - Condition 2

x2 == 1	Test Case
T	77
F	73

$((x1 > w)$ && $(w > 0))$ - Condition 3

x1 > w	w > 0	Test Case
T	T	73
T	F	75
F	T	74
F	F	76

x1 < x7   - Condition 4

x1 < x7	Test Case
T	76
F	73

x1 < x7   - Condition 5

x1 < x7	Test Case
T	76
F	73

Test#73: open 123 66 500 login 123 pin 66 withdraw 100

        Condition 1 - F
        Condition 2 - F
        Condition 3 - (T, T)
        Condition 4 - F
        Condition 5 - F

Test#74: open 123 66 300 login 123 pin 66 withdraw 400

        Condition 3 - (F, T)

Test#75: open 123 66 300 login 123 pin 66 withdraw 0

        Condition 3 - (T, F)

Test#76: open 123 66 300 login 123 pin 66 withdraw 290 withdraw 0

        Condition 5 - T
        Condition 3 - (F, F)
        Condition 4 - T

Test#77: open 123 66 300 login 123 pin 66 lock 555 withdraw 100

        Condition 2 - T

Test#78: open 123 66 300 login 123 withdraw 100

        Condition 1 - T

5.
   1. all test cases executed in the test suite:

Test#1:
   open(123,88,25) method
   login(123) method
   pin(88) method
   deposit(125) method
   deposit(25) method
   balance() method
   balance() method
   logout() method
Test#2:
   open(123,88,25) method
   login(124) method
   login(125) method
   login(123) method
   pin(77) method
   pin(87) method
   pin(89) method
Test#3:
   open(123,88,25) method
   login(123) method
   pin(77) method
   pin(88) method
   deposit(200) method
   logout() method
Test#4:
   open(123,88,100) method
   login(123) method
   pin(88) method
   deposit(50) method
   deposit(100) method
   deposit(100) method
   logout() method
Test#5:
   open(123,88,300) method
   login(123) method
   pin(77) method
   pin(78) method
   pin(87) method
   login(123) method
   pin(88) method
   deposit(100) method
   withdraw(50) method
   withdraw(50) method
   logout() method
Test#6:
   open(123,88,300) method
   login(123) method
   pin(78) method

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      pin(79) method
      pin(80) method
      login(124) method
      login(123) method
      pin(88) method
      withdraw(50) method
      deposit(100) method
      balance() method
      balance() method
      logout() method
Test#7:
      open(123,88,300) method
      login(123) method
      pin(88) method
      balance() method
      logout() method
      login(124) method
      login(123) method
      pin(88) method
      balance() method
      withdraw(100) method
      balance() method
      logout() method
Test#8:
      open(123,88,100) method
      login(123) method
      pin(88) method
      logout() method
      login(124) method
Test#9:
      open(123,88,100) method
      login(123) method
      pin(88) method
      balance() method
      logout() method
      login(123) method
Test#10:
      open(123,88,100) method
      login(123) method
      pin(88) method
      deposit(200) method
      balance() method
      deposit(100) method
      logout() method
      login(123) method
Test#11:
      open(123,88,100) method
      login(123) method
      pin(88) method
      deposit(50) method
      logout() method
Test#12:
```

open(123,88,100) method
login(123) method
pin(88) method
deposit(50) method
balance() method
deposit(200) method
withdraw(200) method
logout() method
Test#13:
open(123,88,300) method
login(123) method
pin(88) method
withdraw(50) method
withdraw(100) method
deposit(100) method
withdraw(100) method
balance() method
deposit(100) method
withdraw(100) method
deposit(50) method
logout() method
Test#14:
open(123,88,300) method
login(123) method
pin(88) method
withdraw(150) method
deposit(100) method
deposit(100) method
withdraw(200) method
deposit(100) method
balance() method
withdraw(100) method
Test#15:
open(123,88,300) method
login(123) method
pin(88) method
logout() method
login(123) method
pin(88) method
withdraw(150) method
deposit(200) method
withdraw(100) method
logout() method
Test#16:
open(123,88,100) method
login(123) method
pin(88) method
balance() method
deposit(50) method
deposit(100) method
lock(555) method
unlock(555) method

balance() method
lock(555) method
Test#17:
  open(123,88,300) method
  login(123) method
  pin(88) method
  lock(555) method
  balance() method
  balance() method
  unlock(555) method
  deposit(100) method
  lock(555) method
Test#18:
  open(123,88,300) method
  login(123) method
  pin(88) method
  withdraw(50) method
  lock(555) method
  unlock(555) method
  withdraw(50) method
  logout() method
Test#19:
  open(123,88,300) method
  login(123) method
  pin(88) method
  lock(555) method
  unlock(555) method
  lock(555) method
  unlock(555) method
  logout() method
Test#20:
  open(123,88,250) method
  login(123) method
  pin(88) method
  lock(555) method
  unlock(555) method
  withdraw(100) method
  lock(555) method
  balance() method
  unlock(555) method
  balance() method
  lock(555) method
  unlock(555) method
  deposit(50) method
  logout() method
Test#21:
  open(123,88,100) method
  login(123) method
  pin(88) method
  lock(555) method
  unlock(555) method
  deposit(50) method

```
    lock(555) method
    unlock(555) method
    logout() method
Test#22:
    open(123,88,100) method
    login(123) method
    pin(88) method
    lock(555) method
    unlock(555) method
    deposit(200) method
    logout() method
Test#23:
    open(123,88,100) method
    login(123) method
    pin(88) method
    lock(555) method
    unlock(555) method
    lock(555) method
Test#24:
    open(123,88,100) method
    login(123) method
    pin(87) method
    pin(88) method
Test#25:
    open(123,88,100) method
    login(123) method
    logout() method
    login(123) method
Test#26:
    open(123,88,100) method
    login(123) method
    pin(87) method
    logout() method
    login(127) method
Test#27:
    open(123,23,122) method
    open(1234,233,122) method
    pin(233) method
    logout() method
    withdraw(100) method
    deposit(200) method
    balance() method
    lock(1233) method
    unlock(1233) method
Test#28:
    open(123,23,500) method
    login(123) method
    open(234,23,500) method
    login(234) method
    withdraw(200) method
    deposit(100) method
    balance() method
```

```
    lock(555) method
    unlock(555) method
Test#29:
    open(123,23,500) method
    login(123) method
    pin(23) method
    open(124,25,600) method
    login(124) method
    pin(25) method
    unlock(555) method
Test#30:
    open(123,23,50) method
    login(123) method
    pin(23) method
    lock(555) method
    open(124,23,500) method
    login(124) method
    pin(23) method
    logout() method
    withdraw(100) method
    deposit(100) method
    lock(567) method
    unlock(578) method
Test#31:
    open(123,23,50) method
    login(123) method
    pin(23) method
    withdraw(700) method
    open(124,25,500) method
    login(124) method
    pin(25) method
    withdraw(100) method
    unlock(333) method
Test#32:
    open(123,88,100) method
Test#33:
    open(-123,88,200) method
Test#34:
    open(123,-88,300) method
Test#35:
    open(-123,-88,400) method
Test#36:
    open(123,88,500) method
Test#37:
    open(-123,88,600) method
Test#38:
    open(123,-88,700) method
Test#39:
    open(-123,-88,800) method
Test#40:
    open(123,88,0) method
Test#41:
```

```
    open(-123,88,-100) method
Test#42:
    open(123,-88,-200) method
Test#43:
    open(-123,-88,-300) method
Test#44:
    open(123,88,-400) method
Test#45:
    open(-123,88,-500) method
Test#46:
    open(123,-88,-600) method
Test#47:
    open(-123,-88,-700) method
Test#48:
    open(123,88,100) method
    login(123) method
    pin(88) method
    logout() method
    pin(88) method
Test#49:
    open(123,88,100) method
    login(123) method
    pin(89) method
    pin(88) method
Test#50:
    open(123,88,100) method
    login(123) method
    pin(87) method
    pin(89) method
    pin(90) method
    logout() method
Test#51:
    open(123,88,100) method
    login(123) method
Test#52:
    open(123,88,100) method
    login(124) method
Test#53:
    open(123,88,100) method
    login(123) method
    login(123) method
Test#54:
    open(123,88,100) method
    login(123) method
    pin(88) method
    logout() method
Test#55:
    open(123,79,100) method
    login(123) method
    pin(79) method
    logout() method
Test#56:
```

open(127,88,100) method
login(127) method
pin(88) method
lock(566) method
Test#57:
open(123,88,300) method
login(123) method
pin(88) method
balance() method
Test#58:
open(123,88,300) method
login(123) method
balance() method
Test#59:
open(123,66,450) method
login(123) method
pin(66) method
lock(556) method
lock(555) method
Test#60:
open(123,66,500) method
login(123) method
lock(556) method
Test#61:
open(123,66,450) method
login(123) method
pin(66) method
lock(66) method
lock(88) method
Test#62:
open(123,66,350) method
login(123) method
pin(66) method
lock(556) method
unlock(556) method
Test#63:
open(123,66,350) method
login(123) method
pin(66) method
lock(556) method
unlock(420) method
Test#64:
open(123,66,350) method
login(123) method
unlock(555) method
Test#65:
open(123,66,350) method
login(123) method
pin(66) method
lock(556) method
unlock(556) method
unlock(556) method

Test#66:
   open(123,66,350) method
   login(123) method
   pin(66) method
   lock(556) method
   unlock(556) method
   unlock(559) method
Test#67:
   open(123,66,500) method
   login(123) method
   pin(66) method
   deposit(100) method
Test#68:
   open(123,66,50) method
   login(123) method
   pin(66) method
   deposit(50) method
Test#69:
   open(123,66,50) method
   login(123) method
   pin(66) method
   deposit(0) method
Test#70:
   open(123,66,300) method
   login(123) method
   pin(66) method
   deposit(0) method
Test#71:
   open(123,66,300) method
   login(123) method
   pin(66) method
   lock(555) method
   deposit(100) method
Test#72:
   open(123,66,900) method
   login(123) method
   deposit(100) method
Test#73:
   open(123,66,500) method
   login(123) method
   pin(66) method
   withdraw(100) method
Test#74:
   open(123,66,300) method
   login(123) method
   pin(66) method
   withdraw(400) method
Test#75:
   open(123,66,300) method
   login(123) method
   pin(66) method
   withdraw(0) method

Test#76:
   open(123,66,300) method
   login(123) method
   pin(66) method
   withdraw(290) method
   withdraw(0) method
Test#77:
   open(123,66,300) method
   login(123) method
   pin(66) method
   lock(555) method
   withdraw(100) method
Test#78:
   open(123,66,300) method
   login(123) method
   withdraw(100) method

validating Test cases to determine results obtained are same expected results.

Test#1: open 123 88 25 login 123 pin 88 deposit 125 deposit 25 balance balance logout
----
Open: 123 88 25 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0 Balance at this state: 25 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 25 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0 Balance at this state: 25 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 25 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

s--

pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0 Balance at this state: 25 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 25 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 125 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0 Balance at this state: 130 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 140 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 25 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0 Balance at this state: 135 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 155 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

balance Executed

Results for this operation:	Expected Results for this operation:
Return Value: 135 Balance at this state: 135	Balance at this state: 155 Current State: 2

Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123 balance Executed

----

balance Executed

Results for this operation:	Expected Results for this operation:
Return Value: 135 Balance at this state: 135 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 155 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 135 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 155 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

Test#2: open 123 88 25 login 124 login 125 login 123 pin 77 pin 87 pin 89

Open: 123 88 25 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0 Balance at this state: 25 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 25 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

login: 124 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1 Balance at this state: 25 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 25 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
login: 125 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1 Balance at this state: 25 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 25 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0 Balance at this state: 25 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 25 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
pin: 77 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1 Balance at this state: 25 Current State: 1 Number Of Pin Retries at this state: 1 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 25 Current State: 1 Number Of Pin Retries at this state: 1 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
pin: 87 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 25
Balance at this state: 25	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 2
Number Of Pin Retries at this state: 2	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 89 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 25
Balance at this state: 25	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 3
Number Of Pin Retries at this state: 3	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

Test#3: open 123 88 25 login 123 pin 77 pin 88 deposit 200 logout
----
Open: 123 88 25 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 25
Balance at this state: 25	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:

Return Value: 0
Balance at this state: 25
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Balance at this state: 25
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----

pin: 77 executed

Results for this operation:
Return Value: -1
Balance at this state: 25
Current State: 1
Number Of Pin Retries at this state: 1
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 25
Current State: 1
Number Of Pin Retries at this state: 1
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----

pin: 88 executed

Results for this operation:
Return Value: 0
Balance at this state: 25
Current State: 2
Number Of Pin Retries at this state: 1
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 25
Current State: 2
Number Of Pin Retries at this state: 1
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----

deposit 200 executed

Results for this operation:
Return Value: 0
Balance at this state: 225
Current State: 2
Number Of Pin Retries at this state: 1
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 225
Current State: 2
Number Of Pin Retries at this state: 1
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 225	Balance at this state: 225
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 1	Number Of Pin Retries at this state: 1
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

Test#4: open 123 88 100 login 123 pin 88 deposit 50 deposit 100 deposit 100 logout
----

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123

| Account Number at this State: 123 | |

----

deposit 50 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 140
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 240
Balance at this state: 230	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 340
Balance at this state: 330	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 330	Balance at this state: 340
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

Test#5: open 123 88 300 login 123 pin 77 pin 78 pin 87 login 123 pin 88 deposit 100 withdraw 50 withdraw 50 logout

----
Open: 123 88 300 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 77 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 300
Balance at this state: 300	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 1
Number Of Pin Retries at this state: 1	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 78 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 300
Balance at this state: 300	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 2
Number Of Pin Retries at this state: 2	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123

Account Number at this State: 123	

----

pin: 87 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 300
Balance at this state: 300	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 3
Number Of Pin Retries at this state: 3	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 400
Balance at this state: 400	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123

Account Number at this State: 123	

----

withdraw: 50 executed

Results for this operation: Return Value: 0 Balance at this state: 350 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 350 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

withdraw: 50 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

logout executed

Results for this operation: Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

Test#6: open 123 88 300 login 123 pin 78 pin 79 pin 80 login 124 login 123 pin 88 withdraw 50 deposit 100 balance balance logout

----

Open: 123 88 300 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0	Expected Results for this operation: Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0

Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Pin at this state: 88
Account Number at this State: 123

----
login: 123 executed

Results for this operation:
Return Value: 0
Balance at this state: 300
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 300
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
pin: 78 executed

Results for this operation:
Return Value: -1
Balance at this state: 300
Current State: 1
Number Of Pin Retries at this state: 1
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 300
Current State: 1
Number Of Pin Retries at this state: 1
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
pin: 79 executed

Results for this operation:
Return Value: -1
Balance at this state: 300
Current State: 1
Number Of Pin Retries at this state: 2
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 300
Current State: 1
Number Of Pin Retries at this state: 2
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
pin: 80 executed

Results for this operation:
Return Value: -1
Balance at this state: 300
Current State: 0
Number Of Pin Retries at this state: 3
Locked Flag at this state: 0
Pin at this state: 88

Expected Results for this operation:
Balance at this state: 300
Current State: 0
Number Of Pin Retries at this state: 3
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

| Account Number at this State: 123 | |

----

login: 124 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 300
Balance at this state: 300	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 3
Number Of Pin Retries at this state: 3	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

withdraw: 50 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 250
Balance at this state: 250	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
deposit 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 350
Balance at this state: 350	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
balance Executed

Results for this operation:	Expected Results for this operation:
Return Value: 350	Balance at this state: 350
Balance at this state: 350	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
balance Executed

Results for this operation:	Expected Results for this operation:
Return Value: 350	Balance at this state: 350
Balance at this state: 350	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 350	Balance at this state: 350
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

Test#7: open 123 88 300 login 123 pin 88 balance logout login 124 login 123 pin 88 balance withdraw 100 balance logout

```
-----------------------------------------------------------------------------
Open: 123 88 300 executed
```

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

```
-----------------------------------------------------------------------------
login: 123 executed
```

Results for this operation:	
Return Value: 0	Expected Results for this operation:
Balance at this state: 300	Balance at this state: 300
Current State: 1	Current State: 1
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

```
-----------------------------------------------------------------------------
pin: 88 executed
```

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

```
-----------------------------------------------------------------------------
balance Executed
```

Results for this operation:	Expected Results for this operation:
Return Value: 300	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

---
logout executed

Results for this operation: Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

---
login: 124 executed

Results for this operation: Return Value: -1 Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

---
login: 123 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

---
pin: 88 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
balance Executed

Results for this operation: Return Value: 300 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
withdraw: 100 executed

Results for this operation: Return Value: 0 Balance at this state: 200 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 200 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
balance Executed

Results for this operation: Return Value: 200 Balance at this state: 200 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 200 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
logout executed

Results for this operation: Balance at this state: 200 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 200 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

Test#8: open 123 88 100 login 123 pin 88 logout login 124

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 100	Balance at this state: 100
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

----
login: 124 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 100

Balance at this state: 100
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Test#9: open 123 88 100 login 123 pin 88 balance logout login 123

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
balance Executed

Results for this operation:	Expected Results for this operation:

```
Return Value: 100                                     Balance at this state: 100
Balance at this state: 100                            Current State: 2
Current State: 2                                      Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0                Locked Flag at this state: 0
Locked Flag at this state: 0                          Pin at this state: 88
Pin at this state: 88                                 Account Number at this State: 123
Account Number at this State: 123
```

----

logout executed

```
Results for this operation:                           Expected Results for this operation:
Balance at this state: 100                            Balance at this state: 100
Current State: 0                                      Current State: 0
Number Of Pin Retries at this state: 0                Number Of Pin Retries at this state: 0
Locked Flag at this state: 0                          Locked Flag at this state: 0
Pin at this state: 88                                 Pin at this state: 88
Account Number at this State: 123                     Account Number at this State: 123
```

----

login: 123 executed

```
Results for this operation:                           Expected Results for this operation:
Return Value: 0                                       Balance at this state: 100
Balance at this state: 100                            Current State: 1
Current State: 1                                      Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0                Locked Flag at this state: 0
Locked Flag at this state: 0                          Pin at this state: 88
Pin at this state: 88                                 Account Number at this State: 123
Account Number at this State: 123
```

Test#10: open 123 88 100 login 123 pin 88 deposit 200 balance deposit 100 logout login 123

Open: 123 88 100 executed

```
Results for this operation:                           Expected Results for this operation:
Return Value: 0                                       Balance at this state: 100
Balance at this state: 100                            Current State: 0
Current State: 0                                      Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0                Locked Flag at this state: 0
Locked Flag at this state: 0                          Pin at this state: 88
Pin at this state: 88                                 Account Number at this State: 123
Account Number at this State: 123
```

----

login: 123 executed

Results for this operation:
Return Value: 0
Balance at this state: 100
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 100
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
pin: 88 executed

Results for this operation:
Return Value: 0
Balance at this state: 100
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 100
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
deposit 200 executed

Results for this operation:
Return Value: 0
Balance at this state: 300
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 300
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
balance Executed

Results for this operation:
Return Value: 300
Balance at this state: 300
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 300
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
deposit 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 400
Balance at this state: 400	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 400	Balance at this state: 400
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 400
Balance at this state: 400	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

Test#11: open 123 88 100 login 123 pin 88 deposit 50 logout

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

```
--------------------------------------------------------------------------------
login: 123 executed
```

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

```
--------------------------------------------------------------------------------
pin: 88 executed
```

Results for this operation:	Expected Results for this operation:
Return Value: 0	
Balance at this state: 100	Balance at this state: 100
Current State: 2	Current State: 2
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

```
--------------------------------------------------------------------------------
deposit 50 executed
```

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 140
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

```
--------------------------------------------------------------------------------
logout executed
```

Results for this operation:	Expected Results for this operation:
Balance at this state: 130	Balance at this state: 140
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

Test#12: open 123 88 100 login 123 pin 88 deposit 50 balance deposit 200 withdraw 200 logout
----

Open: 123 88 100 executed

Results for this operation: Return Value: 0 Balance at this state: 100 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 100 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
login: 123 executed

Results for this operation: Return Value: 0 Balance at this state: 100 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 100 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
pin: 88 executed

Results for this operation: Return Value: 0 Balance at this state: 100 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 100 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
deposit 50 executed

Results for this operation: Return Value: 0 Balance at this state: 130 Current State: 2 Number Of Pin Retries at this state: 0	Expected Results for this operation: Balance at this state: 140 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0

Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Pin at this state: 88 Account Number at this State: 123

----

balance Executed

Results for this operation: Return Value: 130 Balance at this state: 130 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 140 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 200 executed

Results for this operation: Return Value: 0 Balance at this state: 330 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 340 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

withdraw: 200 executed

Results for this operation: Return Value: 0 Balance at this state: 110 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 120 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

logout executed

Results for this operation: Balance at this state: 110 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0	Expected Results for this operation: Balance at this state: 120 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0

Pin at this state: 88
Account Number at this State: 123

Pin at this state: 88
Account Number at this State: 123

Test#13: open 123 88 300 login 123 pin 88 withdraw 50 withdraw 100 deposit 100 withdraw 100 balance deposit 100 withdraw 100 deposit 50 logout

----

Open: 123 88 300 executed

Results for this operation:
Return Value: 0
Balance at this state: 300
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 300
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----

login: 123 executed

Results for this operation:
Return Value: 0
Balance at this state: 300
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 300
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----

pin: 88 executed

Results for this operation:
Return Value: 0
Balance at this state: 300
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 300
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----

withdraw: 50 executed

Results for this operation:
Return Value: 0
Balance at this state: 250

Expected Results for this operation:
Balance at this state: 250
Current State: 2

Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

withdraw: 100 executed

Results for this operation: Return Value: 0 Balance at this state: 130 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 130 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 100 executed

Results for this operation: Return Value: 0 Balance at this state: 230 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 230 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

withdraw: 100 executed

Results for this operation: Return Value: 0 Balance at this state: 110 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 110 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

balance Executed

Results for this operation: Return Value: 110 Balance at this state: 110	Expected Results for this operation: Balance at this state: 110 Current State: 2

Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 100 executed

Results for this operation: Return Value: 0 Balance at this state: 210 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 210 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

withdraw: 100 executed

Results for this operation: Return Value: 0 Balance at this state: 90 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 90 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 50 executed

Results for this operation: Return Value: 0 Balance at this state: 120 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 130 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

logout executed

Results for this operation: Balance at this state: 120 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0	Expected Results for this operation: Balance at this state: 130 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0

Pin at this state: 88
Account Number at this State: 123

Test#14: open 123 88 300 login 123 pin 88 withdraw 150 deposit 100 deposit 100 withdraw 200 deposit 100 balance withdraw 100

Open: 123 88 300 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

withdraw: 150 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 130
Balance at this state: 130	Current State: 2

Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 230
Balance at this state: 230	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 330
Balance at this state: 330	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

withdraw: 200 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 110
Balance at this state: 110	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 210

```
Balance at this state: 210                      Current State: 2
Current State: 2                                Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0          Locked Flag at this state: 0
Locked Flag at this state: 0                     Pin at this state: 88
Pin at this state: 88                           Account Number at this State: 123
Account Number at this State: 123
```

----
balance Executed

```
Results for this operation:                     Expected Results for this operation:
Return Value: 210                               Balance at this state: 210
Balance at this state: 210                       Current State: 2
Current State: 2                                Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0          Locked Flag at this state: 0
Locked Flag at this state: 0                     Pin at this state: 88
Pin at this state: 88                           Account Number at this State: 123
Account Number at this State: 123
```

----
withdraw: 100 executed

```
Results for this operation:                     Expected Results for this operation:
Return Value: 0                                 Balance at this state: 90
Balance at this state: 90                        Current State: 2
Current State: 2                                Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0          Locked Flag at this state: 0
Locked Flag at this state: 0                     Pin at this state: 88
Pin at this state: 88                           Account Number at this State: 123
Account Number at this State: 123
```

Test#15: open 123 88 300 login 123 pin 88 logout login 123 pin 88 withdraw 150 deposit 200 withdraw 100 logout
----
Open: 123 88 300 executed

```
Results for this operation:                     Expected Results for this operation:
Return Value: 0                                 Balance at this state: 300
Balance at this state: 300                       Current State: 0
Current State: 0                                Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0          Locked Flag at this state: 0
Locked Flag at this state: 0                     Pin at this state: 88
Pin at this state: 88                           Account Number at this State: 123
Account Number at this State: 123
```

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 300	Balance at this state: 300
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88

| Pin at this state: 88
Account Number at this State: 123 | Account Number at this State: 123 |

----

pin: 88 executed

| Results for this operation:
Return Value: 0
Balance at this state: 300
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123 | Expected Results for this operation:
Balance at this state: 300
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123 |

----

withdraw: 150 executed

| Results for this operation:
Return Value: 0
Balance at this state: 130
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123 | Expected Results for this operation:
Balance at this state: 130
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123 |

----

deposit 200 executed

| Results for this operation:
Return Value: 0
Balance at this state: 330
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123 | Expected Results for this operation:
Balance at this state: 330
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123 |

----

withdraw: 100 executed

| Results for this operation:
Return Value: 0
Balance at this state: 230
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123 | Expected Results for this operation:
Balance at this state: 230
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123 |

----
logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 230	Balance at this state: 230
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

Test#16: open 123 88 100 login 123 pin 88 balance deposit 50 deposit 100 lock 555 unlock 555 balance lock 555

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0

Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Pin at this state: 88 Account Number at this State: 123

----

balance Executed

Results for this operation: Return Value: 100 Balance at this state: 100 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 100 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 50 executed

Results for this operation: Return Value: 0 Balance at this state: 130 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 140 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 100 executed

Results for this operation: Return Value: 0 Balance at this state: 230 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 240 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

lock: 555 executed

Results for this operation: Return Value: 0 Balance at this state: 230 Current State: 2 Number Of Pin Retries at this state: 0	Expected Results for this operation: Balance at this state: 240 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1

| Locked Flag at this state: 1
Pin at this state: 88
Account Number at this State: 123 | Pin at this state: 88
Account Number at this State: 123 |

----

unlock: 555 executed

| Results for this operation:
Return Value: 0
Balance at this state: 230
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123 | Expected Results for this operation:
Balance at this state: 240
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123 |

----

balance Executed

| Results for this operation:
Return Value: 230
Balance at this state: 230
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123 | Expected Results for this operation:
Balance at this state: 240
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123 |

----

lock: 555 executed

| Results for this operation:
Return Value: 0
Balance at this state: 230
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 1
Pin at this state: 88
Account Number at this State: 123 | Expected Results for this operation:
Balance at this state: 240
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 1
Pin at this state: 88
Account Number at this State: 123 |

Test#17: open 123 88 300 login 123 pin 88 lock 555 balance balance unlock 555 deposit 100 lock 555

Open: 123 88 300 executed

| Results for this operation:
Return Value: 0
Balance at this state: 300 | Expected Results for this operation:
Balance at this state: 300
Current State: 0 |

Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

login: 123 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

pin: 88 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

lock: 555 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 88	Account Number at this State: 123 Expected Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 88 Account Number at this State: 123

----

balance Executed

Results for this operation: Return Value: 300 Balance at this state: 300	Expected Results for this operation: Balance at this state: 300 Current State: 2

Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 88 Account Number at this State: 123	Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 88 Account Number at this State: 123

----

balance Executed

Results for this operation: Return Value: 300 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 88 Account Number at this State: 123

----

unlock: 555 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 100 executed

Results for this operation: Return Value: 0 Balance at this state: 400 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 400 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

lock: 555 executed

Results for this operation: Return Value: 0 Balance at this state: 400 Current State: 2 Number Of Pin Retries at this state: 0	Expected Results for this operation: Balance at this state: 400 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1

Locked Flag at this state: 1 Pin at this state: 88 Account Number at this State: 123	Pin at this state: 88 Account Number at this State: 123

Test#18: open 123 88 300 login 123 pin 88 withdraw 50 lock 555 unlock 555 withdraw 50 logout

----

Open: 123 88 300 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

login: 123 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

pin: 88 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

withdraw: 50 executed

Results for this operation: Return Value: 0 Balance at this state: 250 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0	Expected Results for this operation: Balance at this state: 250 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88

Pin at this state: 88
Account Number at this State: 123

Account Number at this State: 123

----
lock: 555 executed

Results for this operation:
Return Value: 0
Balance at this state: 250
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 1
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 250
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 1
Pin at this state: 88
Account Number at this State: 123

----
unlock: 555 executed

Results for this operation:
Return Value: 0
Balance at this state: 250
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 250
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
withdraw: 50 executed

Results for this operation:
Return Value: 0
Balance at this state: 200
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 200
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
logout executed

Results for this operation:
Balance at this state: 200
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 200
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Test#19: open 123 88 300 login 123 pin 88 lock 555 unlock 555 lock 555 unlock 555 logout
----
Open: 123 88 300 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	
Balance at this state: 300	Balance at this state: 300
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
unlock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
unlock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 300	Balance at this state: 300
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

Test#20: open 123 88 250 login 123 pin 88 lock 555 unlock 555 withdraw 100 lock 555 balance unlock 555 balance lock 555 unlock 555 deposit 50 logout

----

Open: 123 88 250 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 250
Balance at this state: 250	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 250
Balance at this state: 250	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 250
Balance at this state: 250	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 250
Balance at this state: 250	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
unlock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 250
Balance at this state: 250	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
withdraw: 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 130
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 130
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
balance Executed

Results for this operation:	Expected Results for this operation:
Return Value: 130	Balance at this state: 130
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

unlock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 130
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

balance Executed

Results for this operation:	Expected Results for this operation:
Return Value: 130	Balance at this state: 130
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 130
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

unlock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 130
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 50 executed

Results for this operation:
Return Value: 0
Balance at this state: 160
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 160
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----

logout executed

Results for this operation:
Balance at this state: 160
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 160
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Test#21: open 123 88 100 login 123 pin 88 lock 555 unlock 555 deposit 50 lock 555 unlock 555 logout

----

Open: 123 88 100 executed

Results for this operation:
Return Value: 0
Balance at this state: 100
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 100
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----

login: 123 executed

Results for this operation:
Return Value: 0
Balance at this state: 100
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 100
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----

pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
unlock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
deposit 50 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 140
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 140
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

unlock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 140
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 130	Balance at this state: 140
Current State: 0	Current State: 2
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 1
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

Test#22: open 123 88 100 login 123 pin 88 lock 555 unlock 555 deposit 200 logout
----

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

unlock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 200 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 300	Balance at this state: 300
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

Test#23: open 123 88 100 login 123 pin 88 lock 555 unlock 555 lock 555

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

unlock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

Test#24: open 123 88 100 login 123 pin 87 pin 88

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 87 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 1
Number Of Pin Retries at this state: 1	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 88 executeds

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 1
Number Of Pin Retries at this state: 1	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

Test#25: open 123 88 100 login 123 logout login 123

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 100	Balance at this state: 100
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

----

login: 123 executed

Results for this operation:	
Return Value: 0	Expected Results for this operation:
Balance at this state: 100	Balance at this state: 100
Current State: 1	Current State: 1
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

Test#26: open 123 88 100 login 123 pin 87 logout login 127

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 87 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 1
Number Of Pin Retries at this state: 1	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 100	Balance at this state: 100
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 1	Number Of Pin Retries at this state: 1
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

----
login: 127 executed

Results for this operation:
Return Value: -1
Balance at this state: 100
Current State: 0
Number Of Pin Retries at this state: 1
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 100
Current State: 0
Number Of Pin Retries at this state: 1
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Test#27: open 123 23 122 open 1234 233 122 pin 233 logout withdraw 100 deposit 200 balance lock 1233 unlock 1233

Open: 123 23 122 executed

Results for this operation:
Return Value: 0
Balance at this state: 122
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 23
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 122
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 23
Account Number at this State: 123

Open: 1234 233 122 executed

Results for this operation:
Return Value: -1
Balance at this state: 122
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 23
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 122
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 23
Account Number at this State: 123

----

pin: 233 executed

Results for this operation:
Return Value: -1
Balance at this state: 122
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 23
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 122
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 23
Account Number at this State: 123

----
logout executed

Results for this operation: Balance at this state: 122 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 23 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 122 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 23 Account Number at this State: 123

----

withdraw: 100 executed

Results for this operation: Return Value: -1 Balance at this state: 122 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 23 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 122 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 23 Account Number at this State: 123

----
deposit 200 executed

Results for this operation: Return Value: -1 Balance at this state: 122 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 23 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 122 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 23 Account Number at this State: 123

----
balance Executed

Results for this operation: Return Value: -1 Balance at this state: 122 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 23 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 122 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 23 Account Number at this State: 123

----

lock: 1233 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 122
Balance at this state: 122	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----

unlock: 1233 executed

Results for this operation:	
Return Value: -1	Expected Results for this operation:
Balance at this state: 122	Balance at this state: 122
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 23	Pin at this state: 23
Account Number at this State: 123	Account Number at this State: 123

Test#28: open 123 23 500 login 123 open 234 23 500 login 234 withdraw 200 deposit 100 balance lock 555 unlock 555

Open: 123 23 500 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

Open: 234 23 500 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----

login: 234 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----

withdraw: 200 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----

balance Executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----
lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----
unlock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

Test#29: open 123 23 500 login 123 pin 23 open 124 25 600 login 124 pin 25 unlock 555

Open: 123 23 500 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 23 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

Open: 124 25 600 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----
login: 124 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 25 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----

unlock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

Test#30: open 123 23 500 login 123 pin 23 lock 555 open 124 23 500 login 124 pin 23 logout withdraw 100 deposit 100 lock 567 unlock 578

Open: 123 23 500 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 23 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----

lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

Open: 124 23 500 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----
login: 124 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 23 executed

```
Results for this operation:              Expected Results for this operation:
Return Value: -1                         Balance at this state: 500
Balance at this state: 500               Current State: 2
Current State: 2                         Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0   Locked Flag at this state: 1
Locked Flag at this state: 1             Pin at this state: 23
Pin at this state: 23                    Account Number at this State: 123
Account Number at this State: 123
```

----

logout executed

```
Results for this operation:              Expected Results for this operation:
Balance at this state: 500               Balance at this state: 500
Current State: 2                         Current State: 2
Number Of Pin Retries at this state: 0   Number Of Pin Retries at this state: 0
Locked Flag at this state: 1             Locked Flag at this state: 1
Pin at this state: 23                    Pin at this state: 23
Account Number at this State: 123        Account Number at this State: 123
```

----

withdraw: 100 executed

```
Results for this operation:              Expected Results for this operation:
Return Value: -1                         Balance at this state: 500
Balance at this state: 500               Current State: 2
Current State: 2                         Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0   Locked Flag at this state: 1
Locked Flag at this state: 1             Pin at this state: 23
Pin at this state: 23                    Account Number at this State: 123
Account Number at this State: 123
```

----

deposit 100 executed

```
Results for this operation:              Expected Results for this operation:
Return Value: -1                         Balance at this state: 500
Balance at this state: 500               Current State: 2
Current State: 2                         Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0   Locked Flag at this state: 1
Locked Flag at this state: 1             Pin at this state: 23
Pin at this state: 23                    Account Number at this State: 123
Account Number at this State: 123
```

----

lock: 567 executed

Results for this operation:
Return Value: -1
Balance at this state: 500
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 1
Pin at this state: 23
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 500
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 1
Pin at this state: 23
Account Number at this State: 123

----
unlock: 578 executed

Results for this operation:
Return Value: -1
Balance at this state: 500
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 1
Pin at this state: 23
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 500
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 1
Pin at this state: 23
Account Number at this State: 123

Test#31: open 123 23 50 login 123 pin 23 withdraw 700 open 124 25 500 login 124 pin 25 withdraw 100 unlock 333

Open: 123 23 50 executed

Results for this operation:
Return Value: 0
Balance at this state: 50
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 23
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 50
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 23
Account Number at this State: 123

----

login: 123 executed

Results for this operation:
Return Value: 0
Balance at this state: 50
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 23
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 500
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 23
Account Number at this State: 123

----

pin: 23 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 50
Balance at this state: 50	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----

withdraw: 700 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

Open: 124 25 500 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----

login: 124 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 25 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----
withdraw: 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 50
Balance at this state: 50	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

----
unlock: 333 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 50
Balance at this state: 50	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 23
Pin at this state: 23	Account Number at this State: 123
Account Number at this State: 123	

Test#32: open 123 88 100

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123

Account Number at this State: 123	

Test#33: open -123 88 200

Open: -123 88 200 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 200
Balance at this state: 0	Current State: 0
Current State: -1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 0	Account Number at this State: -123
Account Number at this State: 0	

Test#34: open 123 -88 300

Open: 123 -88 300 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 300
Balance at this state: 0	Current State: 0
Current State: -1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: -88
Pin at this state: 0	Account Number at this State: 300
Account Number at this State: 0	

Test#35: open -123 -88 400

Open: -123 -88 400 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 400
Balance at this state: 0	Current State: 0
Current State: -1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: -88
Pin at this state: 0	Account Number at this State: 123
Account Number at this State: 0	

Test#36: open 123 88 500

Open: 123 88 500 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

Test#37: open -123 88 600

Open: -123 88 600 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 600
Balance at this state: 0	Current State: 0
Current State: -1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 0	Account Number at this State: -123
Account Number at this State: 0	

Test#38: open 123 -88 700

Open: 123 -88 700 executed

Results for this operation:	Expected Results for this operation:
	Balance at this state: 700
Return Value: -1	Current State: 0
Balance at this state: 0	Number Of Pin Retries at this state: 0
Current State: -1	Locked Flag at this state: 0
Number Of Pin Retries at this state: 0	Pin at this state: -88
Locked Flag at this state: 0	Account Number at this State: 123
Pin at this state: 0	
Account Number at this State: 0	

Test#39: open -123 -88 800

Open: -123 -88 800 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 800
Balance at this state: 0	Current State: 0
Current State: -1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0

Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Pin at this state: -88 Account Number at this State: -123

Test#40: open 123 88 0

Open: 123 88 0 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: 0 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

Test#41: open -123 88 -100

Open: -123 88 -100 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: -100 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: -123

Test#42: open 123 -88 -200

Open: 123 -88 200 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: -200 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: -88 Account Number at this State: 123

Test#43: open -123 -88 -300

Open: -123 -88 -300 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: -300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: -88 Account Number at this State: -123

Test#44: open 123 88 -400

Open: 123 88 400 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: -400 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

Test#45: open -123 88 -500

Open: -123 88 -500 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: -500 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: - 123

Test#46: open 123 -88 -600

Open: 123 -88 600 executed

Results for this operation:	Expected Results for this operation:

Return Value: -1	Balance at this state: -600
Balance at this state: 0	Current State: 0
Current State: -1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: -88
Pin at this state: 0	Account Number at this State: 123
Account Number at this State: 0	

Test#47: open -123 -88 -700

Open: -123 -88 -700 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: -700
Balance at this state: 0	Current State: 0
Current State: -1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: -88
Pin at this state: 0	Account Number at this State: -123
Account Number at this State: 0	

" there no condition in EFSM Account Class stating that pin, AccountId, balance should be greater than 0"

Test#48: open 123 88 100 login 123 pin 88 logout pin 88

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 88 executed

Results for this operation:	Expected Results for this operation:
Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 100	Balance at this state: 100
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

----
pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

Test#49: open 123 88 100 login 123 pin 89 pin 88

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 89 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 1
Number Of Pin Retries at this state: 1	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 1
Number Of Pin Retries at this state: 1	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

Test#50: open 123 88 100 login 123 pin 87 pin 89 pin 90 logout
----
Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

```
--------------------------------------------------------------------------------
login: 123 executed
```

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

```
--------------------------------------------------------------------------------
pin: 87 executed
```

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 1
Number Of Pin Retries at this state: 1	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

```
--------------------------------------------------------------------------------
pin: 89 executed
```

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 2
Number Of Pin Retries at this state: 2	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

```
--------------------------------------------------------------------------------
pin: 90 executed
```

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 3
Number Of Pin Retries at this state: 3	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

```
--------------------------------------------------------------------------------
logout executed
```

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 3
Number Of Pin Retries at this state: 3	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

Test#51: open 123 88 100 login 123

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

Test#52: open 123 88 100 login 124

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0

Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

login: 124 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

Test#53: open 123 88 100 login 123 login 123

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

| Results for this operation: | Expected Results for this operation: |
| Return Value: -1 | Balance at this state: 100 |

Balance at this state: 100
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Test#54: open 123 88 100 login 123 pin 88 logout

Open: 123 88 100 executed

Results for this operation:
Return Value: 0
Balance at this state: 100
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 100
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----

login: 123 executed

Results for this operation:
Return Value: 0
Balance at this state: 100
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 100
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----

pin: 88 executed

Results for this operation:
Return Value: 0
Balance at this state: 100
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 100
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----

logout executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Results for this operation:	Current State: 0
Balance at this state: 100	Number Of Pin Retries at this state: 0
Current State: 0	Locked Flag at this state: 0
Number Of Pin Retries at this state: 0	Pin at this state: 88
Locked Flag at this state: 0	Account Number at this State: 123
Pin at this state: 88	
Account Number at this State: 123	

Test#55: open 123 79 100 login 123 pin 79 logout logout

Open: 123 79 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 79
Pin at this state: 79	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 79
Pin at this state: 79	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 79 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 79
Pin at this state: 79	Account Number at this State: 123

| Account Number at this State: 123 | |

----

logout executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 79
Pin at this state: 79	Account Number at this State: 123
Account Number at this State: 123	

----

logout executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 79
Pin at this state: 79	Account Number at this State: 123
Account Number at this State: 123	

Test#56: open 127 88 100 login 127 pin 88 lock 566

Open: 127 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 127
Account Number at this State: 127	

----

login: 127 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100

```
Balance at this state: 100              Current State: 1
Current State: 1                        Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0  Locked Flag at this state: 0
Locked Flag at this state: 0            Pin at this state: 88
Pin at this state: 88                   Account Number at this State: 127
Account Number at this State: 127
```

----
pin: 88 executed

```
Results for this operation:             Expected Results for this operation:
Return Value: 0                         Balance at this state: 100
Balance at this state: 100              Current State: 2
Current State: 2                        Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0  Locked Flag at this state: 0
Locked Flag at this state: 0            Pin at this state: 88
Pin at this state: 88                   Account Number at this State: 127
Account Number at this State: 127
```

----
lock: 566 executed

```
Results for this operation:             Expected Results for this operation:
Return Value: 0                         Balance at this state: 100
Balance at this state: 100              Current State: 2
Current State: 2                        Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0  Locked Flag at this state: 1
Locked Flag at this state: 1            Pin at this state: 88
Pin at this state: 88                   Account Number at this State: 127
Account Number at this State: 127
```

Test#57: open 123 88 300 login 123 pin 88 balance

Open: 123 88 300 executed

```
Results for this operation:             Expected Results for this operation:
Return Value: 0                         Balance at this state: 300
Balance at this state: 300              Current State: 0
Current State: 0                        Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0  Locked Flag at this state: 0
Locked Flag at this state: 0            Pin at this state: 88
Pin at this state: 88                   Account Number at this State: 123
Account Number at this State: 123
```

```

login: 123 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 300 |
| Balance at this state: 300 | Current State: 1 |
| Current State: 1 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 88 |
| Pin at this state: 88 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------

pin: 88 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 300 |
| Balance at this state: 300 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 88 |
| Pin at this state: 88 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------

balance Executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 300 | Balance at this state: 300 |
| Balance at this state: 300 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 88 |
| Pin at this state: 88 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
**Test#58: open 123 88 300 login 123 balance**
--------------------------------------------------------------------------------
Open: 123 88 300 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 300 |
| Balance at this state: 300 | Current State: 0 |
| Current State: 0 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 88 |
| Pin at this state: 88 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

----------------------------------------------------------------------------
login: 123 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 300 |
| Balance at this state: 300 | Current State: 1 |
| Current State: 1 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 88 |
| Pin at this state: 88 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

----------------------------------------------------------------------------
balance Executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: -1 | Balance at this state: 300 |
| Balance at this state: 300 | Current State: 1 |
| Current State: 1 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 88 |
| Pin at this state: 88 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

"Should not show the balance before pin method() hence satisfied"

----------------------------------------------------------------------------
**Test#59: open 123 66 450 login 123 pin 66 lock 556 lock 555**
----------------------------------------------------------------------------
Open: 123 66 450 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 450 |
| Balance at this state: 450 | Current State: 0 |
| Current State: 0 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

----------------------------------------------------------------------------
login: 123 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 450 |
| Balance at this state: 450 | Current State: 1 |
| Current State: 1 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |

| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
pin: 66 executed

| Results for this operation: | Expected Results for this operation: |
| Return Value: 0 | Balance at this state: 450 |
| Balance at this state: 450 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
lock: 556 executed

| Results for this operation: | Expected Results for this operation: |
| Return Value: 0 | Balance at this state: 450 |
| Balance at this state: 450 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 1 |
| Locked Flag at this state: 1 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
lock: 555 executed

| Results for this operation: | Expected Results for this operation: |
| Return Value: -1 | Balance at this state: 450 |
| Balance at this state: 450 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 1 |
| Locked Flag at this state: 1 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------

**Test#60: open 123 66 500 login 123 lock 556**
--------------------------------------------------------------------------------
Open: 123 66 500 executed

| Results for this operation: | Expected Results for this operation: |
| Return Value: 0 | Balance at this state: 500 |
| Balance at this state: 500 | Current State: 0 |
| Current State: 0 | Number Of Pin Retries at this state: 0 |

| | |
|---|---|
| Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 0<br>Pin at this state: 66<br>Account Number at this State: 123 | Locked Flag at this state: 0<br>Pin at this state: 66<br>Account Number at this State: 123 |

--------------------------------------------------------------------------------

login: 123 executed

| | |
|---|---|
| Results for this operation:<br>Return Value: 0<br>Balance at this state: 500<br>Current State: 1<br>Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 0<br>Pin at this state: 66<br>Account Number at this State: 123 | Expected Results for this operation:<br>Balance at this state: 500<br>Current State: 1<br>Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 0<br>Pin at this state: 66<br>Account Number at this State: 123 |

--------------------------------------------------------------------------------

lock: 556 executed

| | |
|---|---|
| Results for this operation:<br>Return Value: -1<br>Balance at this state: 500<br>Current State: 1<br>Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 0<br>Pin at this state: 66<br>Account Number at this State: 123 | Expected Results for this operation:<br>Balance at this state: 500<br>Current State: 1<br>Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 0<br>Pin at this state: 66<br>Account Number at this State: 123 |

--------------------------------------------------------------------------------

**Test#61: open 123 66 450 login 123 pin 66 lock 66**

--------------------------------------------------------------------------------

Open: 123 66 450 executed

| | |
|---|---|
| Results for this operation:<br>Return Value: 0<br>Balance at this state: 450<br>Current State: 0<br>Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 0<br>Pin at this state: 66<br>Account Number at this State: 123 | Expected Results for this operation:<br>Balance at this state: 450<br>Current State: 0<br>Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 0<br>Pin at this state: 66<br>Account Number at this State: 123 |

--------------------------------------------------------------------------------

login: 123 executed

| | |
|---|---|
| Results for this operation: | Expected Results for this operation: |

Return Value: 0
Balance at this state: 450
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

Balance at this state: 450
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

--------------------------------------------------------------------------------
pin: 66 executed

Results for this operation:
Return Value: 0
Balance at this state: 450
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 450
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

--------------------------------------------------------------------------------
lock: 66 executed

Results for this operation:
Return Value: -1
Balance at this state: 450
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 450
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

--------------------------------------------------------------------------------
**Test#62: open 123 66 350 login 123 pin 66 lock 556 unlock 556**
--------------------------------------------------------------------------------
Open: 123 66 350 executed

Results for this operation:
Return Value: 0
Balance at this state: 350
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 350
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

--------------------------------------------------------------------------------

login: 123 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 1 |
| Current State: 1 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
pin: 66 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
lock: 556 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 1 |
| Locked Flag at this state: 1 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
unlock: 556 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

------------------------------------------------------------------------------------
**Test#63: open 123 66 350 login 123 pin 66 lock 556 unlock 420**
------------------------------------------------------------------------------------

Open: 123 66 350 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 0 |
| Current State: 0 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

------------------------------------------------------------------------------------
login: 123 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 1 |
| Current State: 1 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

------------------------------------------------------------------------------------
pin: 66 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

------------------------------------------------------------------------------------
lock: 556 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | |
| Balance at this state: 350 | Balance at this state: 350 |
| Current State: 2 | Current State: 2 |
| Number Of Pin Retries at this state: 0 | Number Of Pin Retries at this state: 0 |

| Locked Flag at this state: 1<br>Pin at this state: 66<br>Account Number at this State: 123 | Locked Flag at this state: 1<br>Pin at this state: 66<br>Account Number at this State: 123 |
| --- | --- |

-------------------------------------------------------------------------------

unlock: 420 executed

| Results for this operation:<br>Return Value: -1<br>Balance at this state: 350<br>Current State: 2<br>Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 1<br>Pin at this state: 66<br>Account Number at this State: 123 | Expected Results for this operation:<br>Balance at this state: 350<br>Current State: 2<br>Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 1<br>Pin at this state: 66<br>Account Number at this State: 123 |
| --- | --- |

-------------------------------------------------------------------------------

**Test#64: open 123 66 350 login 123 unlock 555**

-------------------------------------------------------------------------------

Open: 123 66 350 executed

| Results for this operation:<br>Return Value: 0<br>Balance at this state: 350<br>Current State: 0<br>Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 0<br>Pin at this state: 66<br>Account Number at this State: 123 | Expected Results for this operation:<br>Balance at this state: 350<br>Current State: 0<br>Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 0<br>Pin at this state: 66<br>Account Number at this State: 123 |
| --- | --- |

-------------------------------------------------------------------------------

login: 123 executed

| Results for this operation:<br>Return Value: 0<br>Balance at this state: 350<br>Current State: 1<br>Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 0<br>Pin at this state: 66<br>Account Number at this State: 123 | Expected Results for this operation:<br>Balance at this state: 350<br>Current State: 1<br>Number Of Pin Retries at this state: 0<br>Locked Flag at this state: 0<br>Pin at this state: 66<br>Account Number at this State: 123 |
| --- | --- |

-------------------------------------------------------------------------------

unlock: 555 executed

| Results for this operation: | Expected Results for this operation: |
| --- | --- |

Return Value: -1
Balance at this state: 350
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

Balance at this state: 350
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

---------------------------------------------------------------------------

**Test#65: open 123 66 350 login 123 pin 66 lock 556 unlock 556 unlock 556**
---------------------------------------------------------------------------
Open: 123 66 350 executed

Results for this operation:
Return Value: 0
Balance at this state: 350
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 350
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

---------------------------------------------------------------------------
login: 123 executed

Results for this operation:
Return Value: 0
Balance at this state: 350
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 350
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

---------------------------------------------------------------------------
pin: 66 executed

Results for this operation:
Return Value: 0
Balance at this state: 350
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 350
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

---------------------------------------------------------------------------

lock: 556 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 1 |
| Locked Flag at this state: 1 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
unlock: 556 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
unlock: 556 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: -1 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
**Test#66: open 123 66 350 login 123 pin 66 lock 556 unlock 556 unlock 559**
--------------------------------------------------------------------------------
Open: 123 66 350 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 0 |
| Current State: 0 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
login: 123 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 1 |
| Current State: 1 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
pin: 66 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
lock: 556 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 1 |
| Locked Flag at this state: 1 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
unlock: 556 executed

| Results for this operation: | Expected Results for this operation: |
|---|---|
| Return Value: 0 | Balance at this state: 350 |
| Balance at this state: 350 | Current State: 2 |
| Current State: 2 | Number Of Pin Retries at this state: 0 |
| Number Of Pin Retries at this state: 0 | Locked Flag at this state: 0 |
| Locked Flag at this state: 0 | Pin at this state: 66 |
| Pin at this state: 66 | Account Number at this State: 123 |
| Account Number at this State: 123 | |

--------------------------------------------------------------------------------
unlock: 559 executed

Results for this operation:
Return Value: -1
Balance at this state: 350
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 350
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

--------------------------------------------------------------------------------

**Test#67: open 123 66 500 login 123 pin 66 deposit 100**

--------------------------------------------------------------------------------

Open: 123 66 500 executed

Results for this operation:
Return Value: 0
Balance at this state: 500
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 500
Current State: 0
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

--------------------------------------------------------------------------------

login: 123 executed

Results for this operation:
Return Value: 0
Balance at this state: 500
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 500
Current State: 1
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66

--------------------------------------------------------------------------------

pin: 66 executed

Results for this operation:
Return Value: 0
Balance at this state: 500
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 500
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 66
Account Number at this State: 123

--------------------------------------------------------------------------------

deposit 100 executed

```
Results for this operation:              Expected Results for this operation:
Return Value: 0                          Balance at this state: 600
Balance at this state: 600               Current State: 2
Current State: 2                         Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0   Locked Flag at this state: 0
Locked Flag at this state: 0             Pin at this state: 66
Pin at this state: 66                    Account Number at this State: 123
Account Number at this State: 123
```

Test#68: open 123 66 50 login 123 pin 66 deposit 50

Open: 123 66 50 executed

```
Results for this operation:              Expected Results for this operation:
Return Value: 0                          Balance at this state: 50
Balance at this state: 50                Current State: 0
Current State: 0                         Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0   Locked Flag at this state: 0
Locked Flag at this state: 0             Pin at this state: 66
Pin at this state: 66                    Account Number at this State: 123
Account Number at this State: 123
```

----

login: 123 executed

```
Results for this operation:              Expected Results for this operation:
Return Value: 0                          Balance at this state: 50
Balance at this state: 50                Current State: 1
Current State: 1                         Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0   Locked Flag at this state: 0
Locked Flag at this state: 0             Pin at this state: 66
Pin at this state: 66                    Account Number at this State: 123
Account Number at this State: 123
```

----

pin: 66 executed

```
Results for this operation:              Expected Results for this operation:
Return Value: 0                          Balance at this state: 50
Balance at this state: 50                Current State: 2
Current State: 2                         Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0   Locked Flag at this state: 0
Locked Flag at this state: 0             Pin at this state: 66
Pin at this state: 66                    Account Number at this State: 123
Account Number at this State: 123
```

----

deposit 50 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 90
Balance at this state: 80	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

Test#69: open 123 66 50 login 123 pin 66 deposit 0

Open: 123 66 50 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 50
Balance at this state: 50	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 50
Balance at this state: 50	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 66 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Return Value: 0
Balance at this state: 50	Balance at this state: 50
Current State: 2	Current State: 2
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 66	Pin at this state: 66
Account Number at this State: 123	Account Number at this State: 123

```
----------------------------------------------------------------------------
deposit 0 executed
```

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 40
Balance at this state: 50	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 123
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

```
----------------------------------------------------------------------------
```

Test#70: open 123 66 300 login 123 pin 66 deposit 0

```
----------------------------------------------------------------------------
```

Open: 123 66 300 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

```
----------------------------------------------------------------------------
login: 123 executed
```

Results for this operation:	Expected Results for this operation:
	Balance at this state: 300
Return Value: 0	Current State: 1
Balance at this state: 300	Number Of Pin Retries at this state: 0
Current State: 1	Locked Flag at this state: 0
Number Of Pin Retries at this state: 0	Pin at this state: 66
Locked Flag at this state: 0	Account Number at this State: 123
Pin at this state: 66	
Account Number at this State: 123	

```
----------------------------------------------------------------------------
pin: 66 executed
```

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0

Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Pin at this state: 66 Account Number at this State: 123

----

deposit 0 executed

Results for this operation: Return Value: -1 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Expected Results for this operation: Balance at this state: Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

Test#71: open 123 66 300 login 123 pin 66 lock 555 deposit 100

Open: 123 66 300 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

----

login: 123 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

----

pin: 66 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----

lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

Test#72: open 123 66 900 login 123 deposit 100

Open: 123 66 900 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 900
Balance at this state: 900	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 900
Balance at this state: 900	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----
deposit 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 900
Balance at this state: 900	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

Test#73: open 123 66 500 login 123 pin 66 withdraw 100

Open: 123 66 500 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0

Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 66 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 500
Balance at this state: 500	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----

withdraw: 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 400
Balance at this state: 400	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

Test#74: open 123 66 300 login 123 pin 66 withdraw 400

Open: 123 66 300 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

| | |
| | |

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 66 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----
withdraw: 400 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 300
Balance at this state: 300	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

Test#75: open 123 66 300 login 123 pin 66 withdraw 0

Open: 123 66 300 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 300
Balance at this state: 300	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 66 executed

Results for this operation:	Expected Results for this operation:
	Balance at this state: 300
Results for this operation:	Current State: 2
Return Value: 0	Number Of Pin Retries at this state: 0
Balance at this state: 300	Locked Flag at this state: 0
Current State: 2	Pin at this state: 66
Number Of Pin Retries at this state: 0	Account Number at this State: 123
Locked Flag at this state: 0	
Pin at this state: 66	
Account Number at this State: 123	

----
withdraw: 0 executed

Results for this operation:	Expected Results for this operation:
	Balance at this state: 300
Results for this operation:	Current State: 2
Return Value: -1	Number Of Pin Retries at this state: 0
Balance at this state: 300	Locked Flag at this state: 0
Current State: 2	Pin at this state: 66
Number Of Pin Retries at this state: 0	Account Number at this State: 123
Locked Flag at this state: 0	
Pin at this state: 66	
Account Number at this State: 123	

Test#76: open 123 66 300 login 123 pin 66 withdraw 290 withdraw 0

Open: 123 66 300 executed

	Expected Results for this operation:
Results for this operation:	Balance at this state: 300
Return Value: 0	Current State: 0

Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

----
login: 123 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

----
pin: 66 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

----
withdraw: 290 executed

Results for this operation: Return Value: 0 Balance at this state: -10 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Expected Results for this operation: Balance at this state: -10 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

----
withdraw: 0 executed

Results for this operation:	Expected Results for this operation: Balance at this state: -10

Return Value: -1 Balance at this state: -10 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

Test#77: open 123 66 300 login 123 pin 66 lock 555 withdraw 100

Open: 123 66 300 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

----
login: 123 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

----
pin: 66 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

----
lock: 555 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 66 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 66 Account Number at this State: 123

----
withdraw: 100 executed

Results for this operation: Return Value: -1 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 66 Account Number at this State: 123	Actual Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 66 Account Number at this State: 123

Test#78: open 123 66 300 login 123 withdraw 100

Open: 123 66 300 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Actual Results for this operation: Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

----
login: 123 executed

Results for this operation:	Actual Results for this operation:

Return Value: 0 Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

----
withdraw: 100 executed

Actual Results for this operation: Return Value: -1 Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 66 Account Number at this State: 123

----

6. List of Failed Tests

Test#1: open 123 88 25 login 123 pin 88 deposit 125 deposit 25 balance balance logout
----
Open: 123 88 25 executed

Results for this operation: Return Value: 0 Balance at this state: 25 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 25 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88

----
login: 123 executed

Results for this operation: Return Value: 0 Balance at this state: 25 Current State: 1	Expected Results for this operation: Balance at this state: 25 Current State: 1 Number Of Pin Retries at this state: 0

Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

pin: 88 executed

Results for this operation: Return Value: 0 Balance at this state: 25 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 25 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 125 executed

Results for this operation: Return Value: 0 Balance at this state: 130 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 140 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 25 executed

Results for this operation: Return Value: 0 Balance at this state: 135 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 155 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

balance Executed

Results for this operation:	Expected Results for this operation:

Return Value: 135 Balance at this state: 135 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 155 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123 balance Executed

----
balance Executed

Results for this operation: Return Value: 135 Balance at this state: 135 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 155 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
logout executed

Results for this operation: Balance at this state: 135 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 155 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

Test#11: open 123 88 100 login 123 pin 88 deposit 50 logout

Open: 123 88 100 executed

Results for this operation: Return Value: 0 Balance at this state: 100 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 100 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	
Balance at this state: 100	Balance at this state: 100
Current State: 2	Current State: 2
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

----

deposit 50 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 140
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 130	Balance at this state: 140
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

Test#12: open 123 88 100 login 123 pin 88 deposit 50 balance deposit 200 withdraw 200 logout

----

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 50 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 140
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123

| Account Number at this State: 123 | |

----
balance Executed

Results for this operation:	Expected Results for this operation:
Return Value: 130	Balance at this state: 140
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
deposit 200 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 340
Balance at this state: 330	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
withdraw: 200 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 120
Balance at this state: 110	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
logout executed

Results for this operation:	Expected Results for this operation:
Balance at this state: 110	Balance at this state: 120
Current State: 0	Current State: 0
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0

Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

Test#13: open 123 88 300 login 123 pin 88 withdraw 50 withdraw 100 deposit 100 withdraw 100 balance deposit 100 withdraw 100 deposit 50 logout

----
Open: 123 88 300 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
login: 123 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
pin: 88 executed

Results for this operation: Return Value: 0 Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 300 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
withdraw: 50 executed

Results for this operation: Return Value: 0	Expected Results for this operation: Balance at this state: 250

Balance at this state: 250	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

withdraw: 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 130
Balance at this state: 130	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 230
Balance at this state: 230	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

withdraw: 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 110
Balance at this state: 110	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----

balance Executed

Results for this operation:	Expected Results for this operation:
Return Value: 110	Balance at this state: 110

Balance at this state: 110 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 100 executed

Results for this operation: Return Value: 0 Balance at this state: 210 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 210 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

withdraw: 100 executed

Results for this operation: Return Value: 0 Balance at this state: 90 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 90 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 50 executed

Results for this operation: Return Value: 0 Balance at this state: 120 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 130 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

logout executed

Results for this operation: Balance at this state: 120 Current State: 0 Number Of Pin Retries at this state: 0	Expected Results for this operation: Balance at this state: 130 Current State: 0 Number Of Pin Retries at this state: 0

Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 88	Pin at this state: 88
Account Number at this State: 123	Account Number at this State: 123

Test#16: open 123 88 100 login 123 pin 88 balance deposit 50 deposit 100 lock 555 unlock 555 balance lock 555

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
pin: 88 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
balance Executed

| Results for this operation: | Expected Results for this operation: |
| Return Value: 100 | Balance at this state: 100 |

Balance at this state: 100
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
deposit 50 executed

Results for this operation:
Return Value: 0
Balance at this state: 130
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 140
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
deposit 100 executed

Results for this operation:
Return Value: 0
Balance at this state: 230
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 240
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 0
Pin at this state: 88
Account Number at this State: 123

----
lock: 555 executed

Results for this operation:
Return Value: 0
Balance at this state: 230
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 1
Pin at this state: 88
Account Number at this State: 123

Expected Results for this operation:
Balance at this state: 240
Current State: 2
Number Of Pin Retries at this state: 0
Locked Flag at this state: 1
Pin at this state: 88
Account Number at this State: 123

----
unlock: 555 executed

Results for this operation:
Return Value: 0
Balance at this state: 230

Expected Results for this operation:
Balance at this state: 240
Current State: 2

Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
balance Executed

Results for this operation:	Expected Results for this operation:
Return Value: 230	Balance at this state: 240
Balance at this state: 230	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
lock: 555 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 240
Balance at this state: 230	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 1
Locked Flag at this state: 1	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

Test#21: open 123 88 100 login 123 pin 88 lock 555 unlock 555 deposit 50 lock 555 unlock 555 logout
----

Open: 123 88 100 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 100
Balance at this state: 100	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 88	Account Number at this State: 123
Account Number at this State: 123	

----
login: 123 executed

Results for this operation:	Expected Results for this operation:

Return Value: 0 Balance at this state: 100 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Balance at this state: 100 Current State: 1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

pin: 88 executed

Results for this operation: Return Value: 0 Balance at this state: 100 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 100 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

lock: 555 executed

Results for this operation: Return Value: 0 Balance at this state: 100 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 100 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 88 Account Number at this State: 123

----

unlock: 555 executed

Results for this operation: Return Value: 0 Balance at this state: 100 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 100 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----

deposit 50 executed

Results for this operation: Return Value: 0 Balance at this state: 130	Expected Results for this operation: Balance at this state: 140 Current State: 2

Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

----
lock: 555 executed

Results for this operation: Return Value: 0 Balance at this state: 130 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 140 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 88 Account Number at this State: 123

----
unlock: 555 executed

Results for this operation: Return Value: 0 Balance at this state: 130 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 140 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 88 Account Number at this State: 123

----
logout executed

Results for this operation: Balance at this state: 130 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123	Expected Results for this operation: Balance at this state: 140 Current State: 2 Number Of Pin Retries at this state: 0 Locked Flag at this state: 1 Pin at this state: 88 Account Number at this State: 123

Test#33: open -123 88 200

Open: -123 88 200 executed

Results for this operation: Return Value: -1 Balance at this state: 0	Expected Results for this operation: Balance at this state: 200 Current State: 0

Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: -123

Test#34: open 123 -88 300

Open: 123 -88 300 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: 300 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: -88 Account Number at this State: 300

Test#35: open -123 -88 400

Open: -123 -88 400 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: 400 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: -88 Account Number at this State: 123

Test#37: open -123 88 600

Open: -123 88 600 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: 600 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: -123

Test#38: open 123 -88 700

Open: 123 -88 700 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: 700 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: -88 Account Number at this State: 123

Test#39: open -123 -88 800

Open: -123 -88 800 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: 800 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: -88 Account Number at this State: -123

Test#40: open 123 88 0

Open: 123 88 0 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: 0 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: 123

Test#41: open -123 88 -100

Open: -123 88 -100 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: -100
Balance at this state: 0	Current State: 0
Current State: -1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 88
Pin at this state: 0	Account Number at this State: -123
Account Number at this State: 0	

Test#42: open 123 -88 -200

Open: 123 -88 200 executed

Results for this operation:	Expected Results for this operation:
	Balance at this state: -200
Return Value: -1	Current State: 0
Balance at this state: 0	Number Of Pin Retries at this state: 0
Current State: -1	Locked Flag at this state: 0
Number Of Pin Retries at this state: 0	Pin at this state: -88
Locked Flag at this state: 0	Account Number at this State: 123
Pin at this state: 0	
Account Number at this State: 0	

Test#43: open -123 -88 -300

Open: -123 -88 -300 executed

Results for this operation:	Expected Results for this operation:
	Balance at this state: -300
Return Value: -1	Current State: 0
Balance at this state: 0	Number Of Pin Retries at this state: 0
Current State: -1	Locked Flag at this state: 0
Number Of Pin Retries at this state: 0	Pin at this state: -88
Locked Flag at this state: 0	Account Number at this State: -123
Pin at this state: 0	
Account Number at this State: 0	

Test#44: open 123 88 -400

Open: 123 88 400 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: -400
Balance at this state: 0	Current State: 0
Current State: -1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0

Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Pin at this state: 88 Account Number at this State: 123

Test#45: open -123 88 -500

Open: -123 88 -500 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: -500 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 88 Account Number at this State: - 123

Test#46: open 123 -88 -600

Open: 123 -88 600 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: -600 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: -88 Account Number at this State: 123

Test#47: open -123 -88 -700

Open: -123 -88 -700 executed

Results for this operation: Return Value: -1 Balance at this state: 0 Current State: -1 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: 0 Account Number at this State: 0	Expected Results for this operation: Balance at this state: -700 Current State: 0 Number Of Pin Retries at this state: 0 Locked Flag at this state: 0 Pin at this state: -88 Account Number at this State: -123

Test#68: open 123 66 50 login 123 pin 66 deposit 50

Open: 123 66 50 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 50
Balance at this state: 50	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 50
Balance at this state: 50	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 66 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 50
Balance at this state: 50	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----

deposit 50 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 90
Balance at this state: 80	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

Test#69: open 123 66 50 login 123 pin 66 deposit 0

Open: 123 66 50 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 50
Balance at this state: 50	Current State: 0
Current State: 0	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----

login: 123 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Balance at this state: 50
Balance at this state: 50	Current State: 1
Current State: 1	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 66
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

----

pin: 66 executed

Results for this operation:	Expected Results for this operation:
Return Value: 0	Return Value: 0
Balance at this state: 50	Balance at this state: 50
Current State: 2	Current State: 2
Number Of Pin Retries at this state: 0	Number Of Pin Retries at this state: 0
Locked Flag at this state: 0	Locked Flag at this state: 0
Pin at this state: 66	Pin at this state: 66
Account Number at this State: 123	Account Number at this State: 123

----

deposit 0 executed

Results for this operation:	Expected Results for this operation:
Return Value: -1	Balance at this state: 40
Balance at this state: 50	Current State: 2
Current State: 2	Number Of Pin Retries at this state: 0
Number Of Pin Retries at this state: 0	Locked Flag at this state: 0
Locked Flag at this state: 0	Pin at this state: 123
Pin at this state: 66	Account Number at this State: 123
Account Number at this State: 123	

Conclusions:

After the implementation, I found that Test cases has failed in Class testing and in Model - based testing which are listed in above section.

Here we considered EFSM as expected/correct behavior, which is not always true because if we look at the open(z, y, x) method where variables z, y, x are setting values to Account Number(id), balance(b), pin(y) and here in EFSM we don't find any conditions restricting them like balance can go to negative values at initial stage while opening an account, which is an example where EFSM can also be wrong.

Also, although implementing multiple condition testing, default testing and model-based testing gave us the insights about where the code has failed, but I think it is for the best results if we can perform Boundary Value Analysis and Testing, we can derive more results.

I think this EFSM is small, and we can investigate the model and directly find few defects just by comparing but in the large models we had to automate testing methods to minimize human error and adding testing related methods is one such attempt to understand the how the values of the variables are changing while performing various methods on them.

8. Code:

Test Driver for executing the methods

AccountDriver.java

```
System.out.print("Testing-Related Methods");
System.out.print("\n");
System.out.print("                a. Show Balance");
System.out.print("\n");
System.out.print("                b. Show State");
System.out.print("\n");
System.out.print("                c. Show_Number_Of_Pin_Tries");
System.out.print("\n");
System.out.print("                d. Show_Locked_Flag");
System.out.print("\n");
System.out.print("                e. Show_Pin");
System.out.print("\n");
System.out.print("                f. Show_Account_Number");
System.out.print("\n");
System.out.println("-----------------------------------------------------------");
```

Testing related methods

```
    // Creating object of the class
    account ca = new account();    // current account -> CA
    try{
        while(ch != "q"){

            System.out.println("----------------------------------------------------------------");
            System.out.print("Select Operation: ");
            System.out.print("\n");
            System.out.print("  MENU of Operations");
            System.out.print("\n");
            System.out.print("                0. Open");
            System.out.print("\n");
            System.out.print("                1. Deposit");
            System.out.print("\n");
            System.out.print("                2. Withdraw");
            System.out.print("\n");
            System.out.print("                3. Balance");
            System.out.print("\n");
            System.out.print("                4. Lock");
            System.out.print("\n");
            System.out.print("                5. Unlock");
            System.out.print("\n");
            System.out.print("                6. Login");
            System.out.print("\n");
            System.out.print("                7. Pin");
            System.out.print("\n");
            System.out.print("                8. Logout");
            System.out.print("\n");
            System.out.print("                q. Quit the program");
            System.out.print("\n");
            System.out.print("\n");
```

account.java

New Testing methods implemented in the account.java

```
public final int showBalance()
{
    return x1;
} //Testing oriented Method

public final int showState()
{
    return x4;
} //Testing oriented Method

public final int showPinRetries()
{
    return x9;
} //Testing oriented Method

public final int showLockedFlag()
{
    return x2;
} //Testing oriented Method

public final int showPin(){
    return x3;
} // Testing oriented Method

public final int showAccountNumber(){
    return x5;
} // Testing oriented Method
```

Test#1: open 123 88 25 login 123 pin 88 deposit 125 deposit 25 balance balance logout

Test#2: open 123 88 25 login 124 login 125 login 123 pin 77 pin 87 pin 89

Test#3: open 123 88 25 login 123 pin 77 pin 88 deposit 200 logout

Test#4: open 123 88 100 login 123 pin 88 deposit 50 deposit 100 deposit 100 logout

Test#5: open 123 88 300 login 123 pin 77 pin 78 pin 87 login 123 pin 88 deposit 100 withdraw 50 withdraw 50 logout

Test#6: open 123 88 300 login 123 pin 78 pin 79 pin 80 login 124 login 123 pin 88 withdraw 50 deposit 100 balance balance logout

Test#7: open 123 88 300 login 123 pin 88 balance logout login 124 login 123 pin 88 balance withdraw 100 balance logout

Test#8: open 123 88 100 login 123 pin 88 logout login 124

Test#9: open 123 88 100 login 123 pin 88 balance logout login 123

Test#10: open 123 88 100 login 123 pin 88 deposit 200 balance deposit 100 logout login 123

Test#11: open 123 88 100 login 123 pin 88 deposit 50 logout

Test#12: open 123 88 100 login 123 pin 88 deposit 50 balance deposit 200 withdraw 200 logout

Test#13: open 123 88 300 login 123 pin 88 withdraw 50 withdraw 100 deposit 100 withdraw 100 balance deposit 100 withdraw 100 deposit 50 logout

Test#14: open 123 88 300 login 123 pin 88 withdraw 150 deposit 100 deposit 100 withdraw 200 deposit 100 balance withdraw 100

Test#15: open 123 88 300 login 123 pin 88 logout login 123 pin 88 withdraw 150 deposit 200 withdraw 100 logout

Test#16: open 123 88 100 login 123 pin 88 balance deposit 50 deposit 100 lock 555 unlock 555 balance lock 555

Test#17: open 123 88 300 login 123 pin 88 lock 555 balance balance unlock 555 deposit 100 lock 555

Test#18: open 123 88 300 login 123 pin 88 withdraw 50 lock 555 unlock 555 withdraw 50 logout

Test#19: open 123 88 300 login 123 pin 88 lock 555 unlock 555 lock 555 unlock 555 logout

Test#20: open 123 88 250 login 123 pin 88 lock 555 unlock 555 withdraw 100 lock 555 balance unlock 555 balance lock 555 unlock 555 deposit 50 logout

Test#21: open 123 88 100 login 123 pin 88 lock 555 unlock 555 deposit 50 lock 555 unlock 555 logout

Test#22: open 123 88 100 login 123 pin 88 lock 555 unlock 555 deposit 200 logout

Test#23: open 123 88 100 login 123 pin 88 lock 555 unlock 555 lock 555

Test#24: open 123 88 100 login 123 pin 87 pin 88

Test#25: open 123 88 100 login 123 logout login 123

Test#26: open 123 88 100 login 123 pin 87 logout login 127

Test#27: open 123 23 122 open 1234 233 122 pin 233 logout withdraw 100 deposit 200 balance lock 1233 unlock 1233

Test#28: open 123 23 500 login 123 open 234 23 500 login 234 withdraw 200 deposit 100 balance lock 555 unlock 555

Test#29: open 123 23 500 login 123 pin 23 open 124 25 600 login 124 pin 25 unlock 555

Test#30: open 123 23 50 login 123 pin 23 lock 555 open 124 23 500 login 124 pin 23 logout withdraw 100 deposit 100 lock 567 unlock 578

Test#31: open 123 23 50 login 123 pin 23 withdraw 700 open 124 25 500 login 124 pin 25 withdraw 100 unlock 333

Test#32: open 123 88 100

Test#33: open -123 88 200

Test#34: open 123 -88 300

Test#35: open -123 -88 400

Test#36: open 123 88 500

Test#37: open -123 88 600

Test#38: open 123 -88 700

Test#39: open -123 -88 800
Test#40: open 123 88 0
Test#41: open -123 88 -100
Test#42: open 123 -88 -200
Test#43: open -123 -88 -300
Test#44: open 123 88 -400
Test#45: open -123 88 -500
Test#46: open 123 -88 -600
Test#47: open -123 -88 -700
Test#48: open 123 88 100 login 123 pin 88 logout pin 88
Test#49: open 123 88 100 login 123 pin 89 pin 88
Test#50: open 123 88 100 login 123 pin 87 pin 89 pin 90 logout
Test#51: open 123 88 100 login 123
Test#52: open 123 88 100 login 124
Test#53: open 123 88 100 login 123 login 123
Test#54: open 123 88 100 login 123 pin 88 logout
Test#55: open 123 79 100 login 123 pin 79 logout
Test#56: open 127 88 100 login 127 pin 88 lock 566
Test#57: open 123 88 300 login 123 pin 88 balance
Test#58: open 123 88 300 login 123 balance
Test#59: open 123 66 450 login 123 pin 66 lock 556 lock 555
Test#60: open 123 66 500 login 123 lock 556
Test#61: open 123 66 450 login 123 pin 66 lock 66 lock 88
Test#62: open 123 66 350 login 123 pin 66 lock 556 unlock 556
Test#63: open 123 66 350 login 123 pin 66 lock 556 unlock 420
Test#64: open 123 66 350 login 123 unlock 555
Test#65: open 123 66 350 login 123 pin 66 lock 556 unlock 556 unlock 556
Test#66: open 123 66 350 login 123 pin 66 lock 556 unlock 556 unlock 559
Test#67: open 123 66 500 login 123 pin 66 deposit 100
Test#68: open 123 66 50 login 123 pin 66 deposit 50
Test#69: open 123 66 50 login 123 pin 66 deposit 0
Test#70: open 123 66 300 login 123 pin 66 deposit 0
Test#71: open 123 66 300 login 123 pin 66 lock 555 deposit 100
Test#72: open 123 66 900 login 123 deposit 100
Test#73: open 123 66 500 login 123 pin 66 withdraw 100
Test#74: open 123 66 300 login 123 pin 66 withdraw 400
Test#75: open 123 66 300 login 123 pin 66 withdraw 0
Test#76: open 123 66 300 login 123 pin 66 withdraw 290 withdraw 0
Test#77: open 123 66 300 login 123 pin 66 lock 555 withdraw 100
Test#78: open 123 66 300 login 123 withdraw 100
$$