

Appendix 1

Step 1

```
[vm] from:0x147...c160c to:Bank.(constructor) value:10000000000000000 wei data:0x608...00029 logs:0 hash:0x94a...4779f

status 0x1 Transaction mined and execution succeed
transaction hash 0x494a12105b2b6c6e5a902b4e1c95979a8d868b8b47477c8ba8a779f
contract address 0x0515e132729a813126a08b159410505a0809
from 0x1471480bcfd64268dcff7aa4ff388f6c190c
to Bank.(constructor)
gas 3000000 gas
transaction cost 348661 gas
execution cost 22389 gas
hash 0x494a12105b2b6c6e5a902b4e1c95979a8d868b8b47477c8ba8a779f
input
decoded input {}
decoded output -
logs []
value 10000000000000000 wei
```

Step 2

```
[vm] from:0x40b...4d2d to:Attacker.(constructor) value:10000000000000000 wei data:0xd08...e0d09 logs:0 hash:0xc2b...f54f5

status 0x1 Transaction mined and execution succeed
transaction hash 0xc2b06123fc6e6e888553924786f7591c1217e3731f69207837038a5f4f5
contract address 0x5721c8864aa8024304f389967ccccc5ee42761
from 0x40b097b0513fd7c54186d907e929c4e536402d8
to Attacker.(constructor)
gas 3000000 gas
transaction cost 356473 gas
execution cost 24523 gas
hash 0xc2b06123fc6e6e888553924786f7591c1217e3731f69207837038a5f4f5
input 0xd08...e0d09
decoded input { "address:bankAddress": "0x0515e132729a813126a08b159410505a0809" }
decoded output -
logs []
value 10000000000000000 wei
```

Step 3

```
[call] from:0x480897b0513fd7c54186d907e929c4e536402d8 to:Attacker.getAttackerBalance() data:0xa8e...30e2c

transaction hash 0xe0917abb70e243853deca811f383642105077ad747f5d791e97242719c8af2bd
from 0x480897b0513fd7c54186d907e929c4e536402d8
to Attacker.getAttackerBalance() 0x5721c8864aa8024304f389967ccccc5ee42761
transaction cost 21923 gas (Cost only applies when called by a contract)
execution cost 651 gas (Cost only applies when called by a contract)
hash 0xe0917abb70e243853deca811f383642105077ad747f5d791e97242719c8af2bd
input 0xa8e...30e2c
decoded input {}
decoded output { "0": "uint256: 100000000000000000" }
logs []
```

Step 4

```
[vm] from:0x40b...4d2d to:Attacker.deposit() 0x572...42761 value:0 wei data:0xd0e...30d09 logs:0 hash:0x21c...43f4f

status 0x1 Transaction mined and execution succeed
transaction hash 0x21c0377e88850953071aaac28766d09520551807f2828d73f3189098241fa
from 0x40b097b0513fd7c54186d907e929c4e536402d8
to Attacker.deposit() 0x5721c8864aa8024304f389967ccccc5ee42761
gas 3000000 gas
transaction cost 59615 gas
execution cost 29343 gas
hash 0x21c0377e88850953071aaac28766d09520551807f2828d73f3189098241fa
input 0xd0e...30d09
decoded input {}
decoded output {}
logs []
value 0 wei
```

Step 5

```
[call] from:0x480897b0513fd7c54186d907e929c4e536402d8 to:Attacker.getAttackerBalance() data:0xa8e...30e2c

transaction hash 0xe12369af3372cbfc993d69133e4e05a2cd040804c3a868ba28458249aeb061e
from 0x480897b0513fd7c54186d907e929c4e536402d8
to Attacker.getAttackerBalance() 0x5721c8864aa8024304f389967ccccc5ee42761
transaction cost 21923 gas (Cost only applies when called by a contract)
execution cost 651 gas (Cost only applies when called by a contract)
hash 0xe12369af3372cbfc993d69133e4e05a2cd040804c3a868ba28458249aeb061e
input 0xa8e...30e2c
decoded input {}
decoded output { "0": "uint256: 0" }
logs []
```

Step 6

```
[call] from:0x480897b0513fd7c54186d907e929c4e536402d8 to:Bank.getBankLiquidity() data:0x1a6...1d3d4

transaction hash 0xf3d58f946cbadd73b5f1037234394df6c72e36d9bdd3e8641dfb70bc95c1a62
from 0x480897b0513fd7c54186d907e929c4e536402d8
to Bank.getBankLiquidity() 0x9635e132729a813126a08b159410505a0809
transaction cost 21901 gas (Cost only applies when called by a contract)
execution cost 629 gas (Cost only applies when called by a contract)
hash 0xf3d58f946cbadd73b5f1037234394df6c72e36d9bdd3e8641dfb70bc95c1a62
input 0x1a6...1d3d4
decoded input {}
decoded output { "0": "uint256: 11000000000000000000" }
logs []
```

Step 7

```
[vm] from:0x40b...4d2d to:Attacker.withdraw() 0x572...42761 value:0 wei data:0x3cc...f660b logs:0 hash:0xb0d...2f47b

status 0x1 Transaction mined and execution succeed
transaction hash 0xb0d0c89aa54398c474b961ccc2231d40fc21c5f4e09f24f3869793272f47b
contract address 0x480897b0513fd7c54186d907e929c4e536402d8
from 0x40b097b0513fd7c54186d907e929c4e536402d8
to Attacker.withdraw() 0x5721c8864aa8024304f389967ccccc5ee42761
gas 3000000 gas
transaction cost 167174 gas
execution cost 145982 gas
hash 0xb0d0c89aa54398c474b961ccc2231d40fc21c5f4e09f24f3869793272f47b
input 0x3cc...f660b
decoded input {}
decoded output {}
logs []
value 0 wei
```

Step 8

```
[call] from:0x480897b0513fd7c54186d907e929c4e536402d8 to:Bank.getBankLiquidity() data:0x1a6...1d3d4

transaction hash 0x8871c6d35f599c918d5efc8bc9c3a979b4a8c38dd636acc73280773bb9c1
from 0x480897b0513fd7c54186d907e929c4e536402d8
to Bank.getBankLiquidity() 0x9635e132729a813126a08b159410505a0809
transaction cost 21901 gas (Cost only applies when called by a contract)
execution cost 629 gas (Cost only applies when called by a contract)
hash 0x8871c6d35f599c918d5efc8bc9c3a979b4a8c38dd636acc73280773bb9c1
input 0x1a6...1d3d4
decoded input {}
decoded output { "0": "uint256: 0" }
logs []
```

Step 9

```
[call] from:0x480897b0513fd7c54186d907e929c4e536402d8 to:Attacker.getAttackerBalance() data:0xa8e...30e2c

transaction hash 0x495586e6450728c87949d283863c4fcf21c62e5364e0e37893f2597fba93
from 0x480897b0513fd7c54186d907e929c4e536402d8
to Attacker.getAttackerBalance() 0x5721c8864aa8024304f389967ccccc5ee42761
transaction cost 21923 gas (Cost only applies when called by a contract)
execution cost 651 gas (Cost only applies when called by a contract)
hash 0x495586e6450728c87949d283863c4fcf21c62e5364e0e37893f2597fba93
input 0xa8e...30e2c
decoded input {}
decoded output { "0": "uint256: 11000000000000000000" }
logs []
```

Appendix 2

Step 1

```

[vm] from:0x147...c160c to:Bank.(constructor) value:10000000000000000 wei data:0x608...f0029 logs:0 hash:0x55a...02a08
status 0x1 Transaction mined and execution succeed
transaction hash 0x55a4e73a362c427744b688d7640093a5c39cf0b44cc6a6091892982a08
contract address 0x8f4f48943b7c54186d907e929c4e536402d8
from 0x14723a09cfff62a68cdf7a541ff388f6d3160c
to Bank.(constructor)
gas 3000000 gas
transaction cost 09622 gas
execution cost 58862 gas
hash 0x55a4e73a362c427744b688d7640093a5c39cf0b44cc6a6091892982a08
input 0x608...f0029
decoded input {}
decoded output {}
logs {}
value 10000000000000000 wei

```

Step 2

```

[vm] from:0x40b...4d20b to:Attacker.(constructor) value:10000000000000000 wei data:0x608...bcf07 logs:0 hash:0x732...c9832
status 0x1 Transaction mined and execution succeed
transaction hash 0x7324070e6c808971a37c052f0988a80f60e61f2a529687a77c0bc9812
contract address 0x8846885f6886ca9b194c47b3cd96374d09573
from 0x40b897b0513fd7c54186d907e929c4e536402d8
to Attacker.(constructor)
gas 3000000 gas
transaction cost 396475 gas
execution cost 265120 gas
hash 0x7324070e6c808971a37c052f0988a80f60e61f2a529687a77c0bc9812
input 0x608...bcf07
decoded input {"address:BankAddress":"0x8f4f48943b7c54186d907e929c4e536402d8"}
decoded output {}
logs {}
value 10000000000000000 wei

```

Step 3

```

[call] from:0x40b897b0513fd7c54186d907e929c4e536402d8 to:Attacker.getAttackerBalance() data:0xa8e...30e2c
transaction hash 0xb8f86e7c8ff866533bc35de9071d0de4e596e286429cfeacfa97f82dbac
from 0x40b897b0513fd7c54186d907e929c4e536402d8
to Attacker.getAttackerBalance()
transaction cost 21923 gas
execution cost 651 gas
hash 0xb8f86e7c8ff866533bc35de9071d0de4e596e286429cfeacfa97f82dbac
input 0xa8e...30e2c
decoded input {}
decoded output {"0": "uint256: 10000000000000000"}
logs {}

```

Step 4

```

[vm] from:0x40b...4d20b to:Attacker.deposit() 0x804...09573 value:0 wei data:0xa8e...30e2c logs:0 hash:0x737...78b98
status 0x1 Transaction mined and execution succeed
transaction hash 0x737351054e23c745d32192f040f6570e0a043ab1898a26e88178b98
contract address 0x8846885f6886ca9b194c47b3cd96374d09573
from 0x40b897b0513fd7c54186d907e929c4e536402d8
to Attacker.deposit()
gas 3000000 gas
transaction cost 66218 gas
execution cost 64746 gas
hash 0x737351054e23c745d32192f040f6570e0a043ab1898a26e88178b98
input 0xa8e...30e2c
decoded input {}
decoded output {}
logs {}
value 0 wei

```

Step 5

```

[call] from:0x40b897b0513fd7c54186d907e929c4e536402d8 to:Attacker.getAttackerBalance() data:0xa8e...30e2c
transaction hash 0xd276c98a1d657770e894b6279683b09bc5711259e2c1e8fb0ea944804b262
from 0x40b897b0513fd7c54186d907e929c4e536402d8
to Attacker.getAttackerBalance()
transaction cost 21923 gas
execution cost 651 gas
hash 0xd276c98a1d657770e894b6279683b09bc5711259e2c1e8fb0ea944804b262
input 0xa8e...30e2c
decoded input {}
decoded output {"0": "uint256: 0"}
logs {}

```

Step 6

```

[call] from:0x40b897b0513fd7c54186d907e929c4e536402d8 to:Bank.getBankLiquidity() data:0xa16...1d3d4
transaction hash 0x8880c5b89c2e2a209d5311ea3f78c945e87a8e2b534b67b867465912d67a3c
from 0x40b897b0513fd7c54186d907e929c4e536402d8
to Bank.getBankLiquidity()
transaction cost 21981 gas
execution cost 629 gas
hash 0x8880c5b89c2e2a209d5311ea3f78c945e87a8e2b534b67b867465912d67a3c
input 0xa16...1d3d4
decoded input {}
decoded output {"0": "uint256: 10000000000000000"}
logs {}

```

Step 7

```

[vm] from:0x40b...4d20b to:Attacker.withdraw() 0x804...09573 value:0 wei data:0xc3c...f60b logs:0 hash:0x47e...05d78
status 0x1 Transaction mined and execution succeed
transaction hash 0x47e415b426a9ffe74cb8a8d7e9318e9f995d3d75f2c179e95dc3b8b5d78
contract address 0x40b897b0513fd7c54186d907e929c4e536402d8
from 0x40b897b0513fd7c54186d907e929c4e536402d8
to Attacker.withdraw()
gas 3000000 gas
transaction cost 60983 gas
execution cost 54211 gas
hash 0x47e415b426a9ffe74cb8a8d7e9318e9f995d3d75f2c179e95dc3b8b5d78
input 0xc3c...f60b
decoded input {}
decoded output {}
logs {}
value 0 wei

```

Step 8

```

[call] from:0x40b897b0513fd7c54186d907e929c4e536402d8 to:Bank.getBankLiquidity() data:0xa16...1d3d4
transaction hash 0x9328198824c1g2008a5f4d914d8e1f8845eb8eac8e5b5726f2f9bealc6e
from 0x40b897b0513fd7c54186d907e929c4e536402d8
to Bank.getBankLiquidity()
transaction cost 21981 gas
execution cost 629 gas
hash 0x9328198824c1g2008a5f4d914d8e1f8845eb8eac8e5b5726f2f9bealc6e
input 0xa16...1d3d4
decoded input {}
decoded output {"0": "uint256: 10000000000000000"}
logs {}

```

Step 9

```

[call] from:0x40b897b0513fd7c54186d907e929c4e536402d8 to:Attacker.getAttackerBalance() data:0xa8e...30e2c
transaction hash 0x578d5788c95658e49d87ca1a872db048b34bb437cc72c65e2a813e59dbd
from 0x40b897b0513fd7c54186d907e929c4e536402d8
to Attacker.getAttackerBalance()
transaction cost 21923 gas
execution cost 651 gas
hash 0x578d5788c95658e49d87ca1a872db048b34bb437cc72c65e2a813e59dbd
input 0xa8e...30e2c
decoded input {}
decoded output {"0": "uint256: 10000000000000000"}
logs {}

```

Step 10

```

[call] from:0x14723a09cfff62a68cdf7a541ff388f6d3160c to:Bank.getAttackerAddress() data:0x23c...a7b02
transaction hash 0xb8e771283f03ee8c88ec9be6e41bec0ff8e263a0feb0812723a629f87
from 0x14723a09cfff62a68cdf7a541ff388f6d3160c
to Bank.getAttackerAddress()
transaction cost 22842 gas
execution cost 778 gas
hash 0xb8e771283f03ee8c88ec9be6e41bec0ff8e263a0feb0812723a629f87
input 0x23c...a7b02
decoded input {"address: 0x8846885f6886ca9b194c47b3cd96374d09573"}
decoded output {}
logs {}

```

Appendix 3

Step 1

```
[vm] from:0xca3...a733c to:BankWithoutSolution.(constructor) value:1000000000000000 wei data:0x608...0029 logs:0 hash:0xa39...993ac
status 0x1 Transaction mined and execution succeed
transaction hash 0xa384e89812b31f508b612f670b3c82170b6cd562f3e12af38d993ac
contract address 0x1218c1424546d5c6c27a0f10186395877b3a
from 0xc3357015458ef548d686806cf2f468fa733c
to BankWithoutSolution.(constructor)
gas 3000000 gas
transaction cost 452705 gas
execution cost 309469 gas
hash 0xa384e89812b31f508b612f670b3c82170b6cd562f3e12af38d993ac
input 0x608...0029
decoded input {}
decoded output -
logs []
value 1000000000000000 wei
```

Step 2

```
[vm] from:0x147...c160c to:Attacker1.(constructor) value:1000000000000000 wei data:0x608...77b3a logs:0 hash:0x776...42fcd
status 0x1 Transaction mined and execution succeed
transaction hash 0x776f084ca6f60b6e0880670e5130785ef0410e4f392f603218c342fcd
contract address 0x0f4f4894a307c5a181688022063be12a655c707
from 0x14723a89acf6d2a680cdf7aaaf388f0dc160c
to Attacker1.(constructor)
gas 3000000 gas
transaction cost 480699 gas
execution cost 21139 gas
hash 0x776f084ca6f60b6e0880670e5130785ef0410e4f392f603218c342fcd
input 0x608...77b3a
decoded input {}
decoded output {"address bankAddress": "0x09247802e42445020c27a0f701a86395877b3a"}
logs []
value 1000000000000000 wei
```

Step 3

```
[vm] from:0x147...c160c to:Attacker2.(constructor) value:0 wei data:0x608...77b3a logs:0 hash:0x759...f3837
status 0x1 Transaction mined and execution succeed
transaction hash 0x7590a80fbcf780c43770e259c746f9e07688abf42cfc6e874cbacf9f3837
contract address 0x141998186d11823c45ff91f9cc8c50934e27ac0
from 0x14723a89acf6d2a680cdf7aaaf388f0dc160c
to Attacker2.(constructor)
gas 3000000 gas
transaction cost 216182 gas
execution cost 124282 gas
hash 0x7590a80fbcf780c43770e259c746f9e07688abf42cfc6e874cbacf9f3837
input 0x608...77b3a
decoded input {"address bankAddress": "0x09247802e42445020c27a0f701a86395877b3a"}
decoded output -
logs []
value 0 wei
```

Step 4

```
[call] from:0x14723489acf6d2a680cdf7aaaf388f0dc160c to:Attacker2.getAttackerBalance() data:0x608...38e2c
transaction hash 0xa281557573c0e8899f3218c4b292ac2c30454748f08d6eb074ed92f7c47
from 0x14723489acf6d2a680cdf7aaaf388f0dc160c
to Attacker2.getAttackerBalance() 0x141998186d11823c45ff91f9cc8c50934e27ac0
transaction cost 21923 gas (Cost only applies when called by a contract)
execution cost 651 gas (Cost only applies when called by a contract)
hash 0xa281557573c0e8899f3218c4b292ac2c30454748f08d6eb074ed92f7c47
input 0x608...38e2c
decoded input {}
decoded output {"0": "uint256: 0"}
logs []
```

Step 5

```
[vm] from:0x147...c160c to:Attacker1.deposit() 0x0fc...bcfb7 value:0 wei data:0xd0e...380b0 logs:0 hash:0x628...758c8
status 0x1 Transaction mined and execution succeed
transaction hash 0x628c774cfe8a293ca778934561295c180baec32e9d06c21c93a758c8
from 0x14723a89acf6d2a680cdf7aaaf388f0dc160c
to Attacker1.deposit() 0x0f4f4894a307c5a181688022063be12a655c707
gas 3000000 gas
transaction cost 30030 gas
execution cost 23387 gas
hash 0x628c774cfe8a293ca778934561295c180baec32e9d06c21c93a758c8
input 0xd0e...380b0
decoded input {}
decoded output {}
logs []
value 0 wei
```

Step 6

```
[call] from:0x14723489acf6d2a680cdf7aaaf388f0dc160c to:Attacker1.getAttackerBalance() data:0x608...38e2c
transaction hash 0x1b0cfff0242cc8b48880695521383608f770e4a084b06f7a8c60455075
from 0x14723489acf6d2a680cdf7aaaf388f0dc160c
to Attacker1.getAttackerBalance() 0x0f4f4894a307c5a181688022063be12a655c707
transaction cost 21945 gas (Cost only applies when called by a contract)
execution cost 673 gas (Cost only applies when called by a contract)
hash 0x1b0cfff0242cc8b48880695521383608f770e4a084b06f7a8c60455075
input 0x608...38e2c
decoded input {}
decoded output {"0": "uint256: 0"}
logs []
```

Step 7

```
[call] from:0xcA35b70915458ef548d686806cf2f468fa733c to:BankWithoutSolution.getBankLiquidity() data:0x1a6...1d304
transaction hash 0xc2915614a04f0b13cde4d0b6e509f1464131c7235398f92113a9f67
from 0xcA35b70915458ef548d686806cf2f468fa733c
to BankWithoutSolution.getBankLiquidity() 0x09247802e42445020c27a0f701a86395877b3a
transaction cost 21981 gas (Cost only applies when called by a contract)
execution cost 629 gas (Cost only applies when called by a contract)
hash 0xc2915614a04f0b13cde4d0b6e509f1464131c7235398f92113a9f67
input 0x1a6...1d304
decoded input {}
decoded output {"0": "uint256: 20000000000000000000"}
logs []
```

Step 8

```
[vm] from:0x147...c160c to:Attacker1.setAttacker2(address) 0x0f...bcfb7 value:0 wei data:0x6cc...27ac0 logs:0 hash:0x3f7...ced1d
status 0x1 Transaction mined and execution succeed
transaction hash 0x3f73546d4f087085ef0cc70b12483130301112403824208078742aced1d
from 0x14723a89acf6d2a680cdf7aaaf388f0dc160c
to Attacker1.setAttacker2(address) 0x0f4f4894a307c5a181688022063be12a655c707
gas 3000000 gas
transaction cost 41166 gas
execution cost 28488 gas
hash 0x3f73546d4f087085ef0cc70b12483130301112403824208078742aced1d
input 0x6cc...27ac0
decoded input {"address addr": "0x141998186d11823c45ff91f9cc8c50934e27ac0"}
decoded output {}
logs []
value 0 wei
```

Step 9

```
[vm] from:0x147...c160c to:Attacker1.withdraw() 0x0fc...bcfb7 value:0 wei data:0x3cc...fd80b logs:0 hash:0xf6d...12f21
status 0x1 Transaction mined and execution succeed
transaction hash 0xf6ddc2735cf0b289152a24546d680c28806a293aed72300972a758f12f21
from 0x14723a89acf6d2a680cdf7aaaf388f0dc160c
to Attacker1.withdraw() 0x0f4f4894a307c5a181688022063be12a655c707
gas 3000000 gas
transaction cost 30761 gas
execution cost 30761 gas
hash 0xf6ddc2735cf0b289152a24546d680c28806a293aed72300972a758f12f21
input 0x3cc...fd80b
decoded input {}
decoded output {}
logs []
value 0 wei
```

Step 10

```
[vm] from:0x147...c160c to:Attacker2.withdraw() 0x143...27ac0 value:0 wei data:0x3cc...fd80b logs:0 hash:0x345...b1530
status 0x1 Transaction mined and execution succeed
transaction hash 0x345f24ae975207799cf64640786f0932c0d4f0e27d087281a040351530
from 0x14723a89acf6d2a680cdf7aaaf388f0dc160c
to Attacker2.withdraw() 0x141998186d11823c45ff91f9cc8c50934e27ac0
gas 3000000 gas
transaction cost 31206 gas
execution cost 31204 gas
hash 0x345f24ae975207799cf64640786f0932c0d4f0e27d087281a040351530
input 0x3cc...fd80b
decoded input {}
decoded output {}
logs []
value 0 wei
```


Appendix 4

Step 1

```
status [vm] from:0xc3a...a733c to:Bank.(constructor) value:1000000000000000000 wei data:0x688...78029 logs:0 hash:0xdc...6514e
transaction hash 0x1 Transaction mined and execution succeed
contract address 0x030a0815544787f2931c130896f627248354680f93cfff6228f6919514e
from 0x92a7802442445602c627a07d1a8639587733a
to Bank.(constructor)
gas 3000000 gas
transaction cost 995184 gas
execution cost 737384 gas
hash 0x030a0815544787f2931c130896f627248354680f93cfff6228f6919514e
input 0x688...78029
decoded input {}
decoded output {}
logs []
value 1000000000000000000 wei
```

Step 2

```
status [vm] from:0x147...c160c to:Attacker1.(constructor) value:1000000000000000000 wei data:0x688...77b3a logs:0 hash:0xd18...ef7e7
transaction hash 0x1 Transaction mined and execution succeed
contract address 0x030a0815544787f2931c130896f627248354680f93cfff6228f6919514e
from 0x14723a09acf602a60cdcf7aa4aff308f0dc160c
to Attacker1.(constructor)
gas 3000000 gas
transaction cost 486635 gas
execution cost 21159 gas
hash 0x030a0815544787f2931c130896f627248354680f93cfff6228f6919514e
input 0x688...77b3a
decoded input {}
decoded output {}
logs []
value 1000000000000000000 wei
```

Step 3

```
status [vm] from:0x147...c160c to:Attacker2.(constructor) value:0 wei data:0x688...77b3a logs:0 hash:0xf18...d9282
transaction hash 0x1 Transaction mined and execution succeed
contract address 0xf182a082680263b0d9d4183c012058e127f48e738e830cb55447809282
from 0x14398186011823c45ff91f0c6c58934e27ac8
to Attacker2.(constructor)
gas 3000000 gas
transaction cost 216182 gas
execution cost 124282 gas
hash 0xf182a082680263b0d9d4183c012058e127f48e738e830cb55447809282
input 0x688...77b3a
decoded input {"address bankAddress": "0x92a7802442445602c627a07d1a8639587733a"}
decoded output {}
logs []
value 0 wei
```

Step 4

```
status [call] from:0x14723a09acf602a60cdcf7aa4aff308f0dc160c to:Attacker2.getAttackerBalance() data:0x688...30e2c
transaction hash 0xa2815575737c6a8896f2128c4b292ca2c38454748f086db0b74ed927f47
from 0x14723a09acf602a60cdcf7aa4aff308f0dc160c
to Attacker2.getAttackerBalance() 0x14398186011823c45ff91f0c6c58934e27ac8
transaction cost 21923 gas (Cost only applies when called by a contract)
execution cost 651 gas (Cost only applies when called by a contract)
hash 0xa2815575737c6a8896f2128c4b292ca2c38454748f086db0b74ed927f47
input 0x688...30e2c
decoded input {}
decoded output {"uint256: 0"}
logs []
```

Step 5

```
status [vm] from:0x147...c160c to:Attacker1.deposit() 0x688...bcfb7 value:0 wei data:0x08e...30b00 logs:0 hash:0x628...75808
transaction hash 0x1 Transaction mined and execution succeed
contract address 0x28c0774cfec82a03ca770934501295c18089ac32d0b09c217c91a78c8
from 0x14723a09acf602a60cdcf7aa4aff308f0dc160c
to Attacker1.deposit() 0x030a0815544787f2931c130896f627248354680f93cfff6228f6919514e
gas 3000000 gas
transaction cost 30682 gas
execution cost 64700 gas
hash 0x28c0774cfec82a03ca770934501295c18089ac32d0b09c217c91a78c8
input 0x08e...30b00
decoded input {}
decoded output {}
logs []
value 0 wei
```

Step 6

```
status [call] from:0x14723a09acf602a60cdcf7aa4aff308f0dc160c to:Attacker1.getAttackerBalance() data:0x688...30e2c
transaction hash 0x1b0cf8f8824ecb384880e99562138368f770e44804f086778dc8e0455075
from 0x14723a09acf602a60cdcf7aa4aff308f0dc160c
to Attacker1.getAttackerBalance() 0x030a0815544787f2931c130896f627248354680f93cfff6228f6919514e
transaction cost 21945 gas (Cost only applies when called by a contract)
execution cost 673 gas (Cost only applies when called by a contract)
hash 0x1b0cf8f8824ecb384880e99562138368f770e44804f086778dc8e0455075
input 0x688...30e2c
decoded input {}
decoded output {"uint256: 0"}
logs []
```

Step 7

```
status [call] from:0xc3a35b7d915458ef540a0e6068df2f44e8f733c to:Bank.getBankLiquidity() data:0x1a6...1d3d4
transaction hash 0xc3a35b7d915458ef540a0e6068df2f44e8f733c
from 0xc3a35b7d915458ef540a0e6068df2f44e8f733c
to Bank.getBankLiquidity() 0x92a7802442445602c627a07d1a8639587733a
transaction cost 21981 gas (Cost only applies when called by a contract)
execution cost 629 gas (Cost only applies when called by a contract)
hash 0xc3a35b7d915458ef540a0e6068df2f44e8f733c
input 0x1a6...1d3d4
decoded input {}
decoded output {"uint256: 2000000000000000000"}
logs []
```

Step 8

```
status [vm] from:0x147...c160c to:Attacker1.setAttacker2(address) 0x688...bcfb7 value:0 wei data:0x6cc...27ac0 logs:0 hash:0x3f7...ced1d
transaction hash 0x1 Transaction mined and execution succeed
contract address 0xf7a505df487085fbcac74b2148361949c11140382424095878742ced1d
from 0x14723a09acf602a60cdcf7aa4aff308f0dc160c
to Attacker1.setAttacker2(address) 0x030a0815544787f2931c130896f627248354680f93cfff6228f6919514e
gas 3000000 gas
transaction cost 43166 gas
execution cost 20488 gas
hash 0xf7a505df487085fbcac74b2148361949c11140382424095878742ced1d
input 0x6cc...27ac0
decoded input {"address addr": "0x14398186011823c45ff91f0c6c58934e27ac8"}
decoded output {}
logs []
value 0 wei
```

Step 9

```
status [vm] from:0x147...c160c to:Attacker1.withdraw() 0x688...bcfb7 value:0 wei data:0x3cc...f608b logs:0 hash:0xf6d...12f21
transaction hash 0x1 Transaction mined and execution succeed
contract address 0xf66dc2735f0b2891522442454e06e082880642981a072390972a79812f21
from 0x14723a09acf602a60cdcf7aa4aff308f0dc160c
to Attacker1.withdraw() 0x030a0815544787f2931c130896f627248354680f93cfff6228f6919514e
gas 3000000 gas
transaction cost 6594 gas
execution cost 5942 gas
hash 0xf66dc2735f0b2891522442454e06e082880642981a072390972a79812f21
input 0x688...f608b
decoded input {}
decoded output {}
logs []
value 0 wei
```

Step 10

```
status [vm] from:0x147...c160c to:Attacker2.withdraw() 0x143...27ac0 value:0 wei data:0x3cc...f608b logs:0 hash:0x345...d1538
transaction hash 0x1 Transaction mined but execution failed
contract address 0x345f4a0975287799cf04049708f018c0b0927480721814040515138
from 0x14723a09acf602a60cdcf7aa4aff308f0dc160c
to Attacker2.withdraw() 0x14398186011823c45ff91f0c6c58934e27ac8
gas 3000000 gas
transaction cost 23798 gas
execution cost 2526 gas
hash 0x345f4a0975287799cf04049708f018c0b0927480721814040515138
input 0x3cc...f608b
decoded input {}
decoded output {}
logs []
value 0 wei
```

Step 11

```
[call] from:0x14723A09ACff6D2A60DcdF7a4A4F308FDDC160C to:Bank.getBankLiquidity() data:0x1a6...1d3d4

transaction hash 0x028ca908df18081a583866659d1c39363f5380ff5937a002ad95fd22871124
from 0x14723A09ACff6D2A60DcdF7a4A4F308FDDC160C
to Bank.getBankLiquidity() 0x092a702e42a5602c6c27a69701a86395877b3a
transaction cost 23981 gas (Cost only applies when called by a contract)
execution cost 629 gas (Cost only applies when called by a contract)
hash 0x028ca908df18081a583866659d1c39363f5380ff5937a002ad95fd22871124
input 0x1a6...1d3d4
decoded input {}
decoded output {
  "0": "uint256: 1000000000000000000"
}
logs []
```

Step 12

```
[call] from:0x14723A09ACff6D2A60DcdF7a4A4F308FDDC160C to:Attacker1.getAttackerBalance() data:0xa8e...30e2c

transaction hash 0xd761d80902b6194c5ea39c37c5091a699978c7b4999fb3398064a828f568b
from 0x14723A09ACff6D2A60DcdF7a4A4F308FDDC160C
to Attacker1.getAttackerBalance() 0x09f4894a3b7c5a181888290638E52d45bcfb7
transaction cost 23945 gas (Cost only applies when called by a contract)
execution cost 673 gas (Cost only applies when called by a contract)
hash 0xd761d80902b6194c5ea39c37c5091a699978c7b4999fb3398064a828f568b
input 0xa8e...30e2c
decoded input {}
decoded output {
  "0": "uint256: 1000000000000000000"
}
logs []
```

Step 13

```
[call] from:0x14723A09ACff6D2A60DcdF7a4A4F308FDDC160C to:Attacker2.getAttackerBalance() data:0xa8e...30e2c

transaction hash 0x83f6d9cbabc1a8c937a09518a2b7f2004045d2ebbd6836efec84061ba6f
from 0x14723A09ACff6D2A60DcdF7a4A4F308FDDC160C
to Attacker2.getAttackerBalance() 0x1450818011823445ff93a0c6c30934e27ac0
transaction cost 23923 gas (Cost only applies when called by a contract)
execution cost 651 gas (Cost only applies when called by a contract)
hash 0x83f6d9cbabc1a8c937a09518a2b7f2004045d2ebbd6836efec84061ba6f
input 0xa8e...30e2c
decoded input {}
decoded output {
  "0": "uint256: 0"
}
logs []
```

Step 14

```
[call] from:0xCA3507d915458EF540aDe6068Df2F44E6f733c to:Bank.getAttackerAddress() data:0x23c...87bb2

transaction hash 0x5e09cdd08ace3e8f1f3acc23553e4428c187dbf37fba4e5c37f4a2c2b31ef
from 0xCA3507d915458EF540aDe6068Df2F44E6f733c
to Bank.getAttackerAddress() 0x092a702e42a5602c6c27a69701a86395877b3a
transaction cost 22842 gas (Cost only applies when called by a contract)
execution cost 770 gas (Cost only applies when called by a contract)
hash 0x5e09cdd08ace3e8f1f3acc23553e4428c187dbf37fba4e5c37f4a2c2b31ef
input 0x23c...87bb2
decoded input {}
decoded output {
  "0": "address: 0x09f4894a3b7c5a181888290638E52d45bcfb7"
}
logs []
```