

# CIS 6930: Blockchain: Optimization and Applications

## DApp Solidity - Report

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### 1. Functions:

#### 1.1. **function bid() public payable**

Bid on the auction with the value sent together with this transaction. The value will only be refunded if the auction is not won.

- If the bidding period is over, revert the call. This is taken care by a Boolean variable 'ended' which if false, the call is reverted.
- If the bid is higher than the highest bid, send the money back with message "Already higher bid present".
- Storing the previously highest bid in pendingReturns. The bidder will need to trigger withdraw() to get the money back.
- When the highestbid is increased, emit an event highestBidIncreased

#### 1.2. **function withdraw() public returns (bool)**

Withdraw a bid that was overbid

- The amount in pendingReturns is sent to the sender
- False is returned when there is an error when sending
- Else if successful return true

#### 1.3. **function auctionEnd() public**

- Only beneficiary can trigger this function. If not, throw an error "Only beneficiary can trigger auctionEnd"
- Send money to beneficiary account and make sure it cant call this function multiple times
- This function is segregated into three phases:
  - Conditions: if 'ended' is set to false, "auctionEnd has already been called."
  - Effects: 'ended' is set to true when this function is called by beneficiary and AuctionEnded event is emitted.
  - Interaction: The highest bid is transferred to the beneficiary.

2. The amount of gas or transaction fee needed to deploy the contract and trigger each of the implemented functions. Attach some screenshots showing how you obtained those numbers.

## 2.1. Action: Truffle migrate

total cost is 0.01316662ETH

```
/usr/bin/bash --login -i
> block timestamp:      1582598789
> account:              0xFD005d89e2Fe4B22348c21FD84773BF45cF2f6b1
> balance:              99.99623034
> gas used:             188483
> gas price:            20 gwei
> value sent:           0 ETH
> total cost:           0.00376966 ETH

- Saving migration to chain.
  > Saving migration to chain.
  > Saving artifacts
  -----
  > Total cost:           0.00376966 ETH

2_deploy_contracts.js
=====

  Replacing 'Auction'
  -----
  > transaction hash:      0x82fde931d16bc2e0635a63f1204b47aadb5b67ce07b86ba53ced16a551518b9d
- Blocks: 0              Seconds: 0
  > Blocks: 0              Seconds: 0
  > contract address:      0xd3647a9f59045e1979563698157E302D7c41a92B
  > block number:          3
  > block timestamp:       1582598790
  > account:               0xFD005d89e2Fe4B22348c21FD84773BF45cF2f6b1
  > balance:               99.9822237
  > gas used:              658331
  > gas price:             20 gwei
  > value sent:            0 ETH
  > total cost:            0.01316662 ETH

- Saving migration to chain.
  > Saving migration to chain.
  > Saving artifacts
  -----
  > Total cost:            0.01316662 ETH

Summary
=====
> Total deployments:     2
> Final cost:            0.01693628 ETH

bash: __docker_machine_ps1: command not found
[Sindhu@LAPTOP-FMCDRJHK hw1-source]$
```

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ACCOUNTS

BLOCKS

TRANSACTIONS

CONTRACTS

EVENTS

LOGS

SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK

4

GAS PRICE

2000000000

GAS LIMIT

6721975

HARDFORK

PETERSBURG

NETWORK ID

5777

RPC SERVER

HTTP://127.0.0.1:7545

MINING STATUS

AUTOMINING

WORKSPACE

KNOWN-PRODUCE

SWITCH

MNEMONIC

more paddle scissors photo finish sing matrix snow this wrist build announce

HD PATH

m/44'/60'/0'/0/account\_index

ADDRESS

0xFd005d89e2Fe4B22348c21FD84773BF45cF2f6b1

BALANCE

99.98 ETH

TX COUNT

4

INDEX

0

ADDRESS

0x673C667c4EBef95D458e9FdDeed98C9854ba9D4

BALANCE

100.00 ETH

TX COUNT

0

INDEX

1

ADDRESS

0x2211CAA2E361554534b4C451A25151276Db64f86

BALANCE

100.00 ETH

TX COUNT

0

INDEX

2

ADDRESS

0x1b09AAEb7b7da83F9Ee386715D22eE92d2C151f9

BALANCE

100.00 ETH

TX COUNT

0

INDEX

3

ADDRESS

0x0B02b3cd75c7052c79c13E720A6d13A6Ae585DDE

BALANCE

100.00 ETH

TX COUNT

0

INDEX

4

ADDRESS

0xB817CE41772F152992e463A3C7a6b9aD120E3986

BALANCE

100.00 ETH

TX COUNT

0

INDEX

5

ADDRESS

BALANCE

TX COUNT

INDEX

## 2.2. Bid function:

### 2.2.1. Action:

```
await instance.bid({from:accounts[2],value:web3.utils.toWei('3','ether')})
```

```
gasUsed: 63744
```

[illegible]

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ACCOUNTS
 BLOCKS
 TRANSACTIONS
 CONTRACTS
 EVENTS
 LOGS

SEARCH FOR BLOCK NUMBERS OR TX HASHES

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CURRENT BLOCK <b>5</b>	GAS PRICE <b>20000000000</b>	GAS LIMIT <b>6721975</b>	HARDFORK <b>PETERSBURG</b>	NETWORK ID <b>5777</b>	RPC SERVER <b>HTTP://127.0.0.1:7545</b>	MINING STATUS <b>AUTOMINING</b>	WORKSPACE <b>KNOWN-PRODUCE</b>	<b>SWITCH</b>	
---------------------------	---------------------------------	-----------------------------	-------------------------------	---------------------------	--------------------------------------------	------------------------------------	-----------------------------------	---------------	--

**MNEMONIC** ⓘ  
more paddle scissors photo finish sing matrix snow this wrist build announce

**HD PATH**  
m/44'/60'/0'/0/account\_index

ADDRESS	BALANCE	TX COUNT	INDEX	
0xfD005d89e2Fe4B22348c21FD84773BF45cf2f6b1	99.98 ETH	4	0	
0x673C667c4EBef95D458e9FdDeed98C9854ba9D4	100.00 ETH	0	1	
0x2211CAA2E361554534b4C451A25151276Db64f86	97.00 ETH	1	2	
0x1b09AAEb7b7da83F9Ee386715D22eE92d2C151f9	100.00 ETH	0	3	
0x0B02b3cd75c7052c79c13E720A6d13A6Ae585DDE	100.00 ETH	0	4	
0xB817CE41772F152992e463A3C7a6b9aD120E3986	100.00 ETH	0	5	
ADDRESS	BALANCE	TX COUNT	INDEX	

```
gasUsed: 54503,
```

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ACCOUNTS
 BLOCKS
 TRANSACTIONS
 CONTRACTS
 EVENTS
 LOGS

SEARCH FOR BLOCK NUMBERS OR TX HASHES

🔍

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CURRENT BLOCK <b>6</b>	GAS PRICE <b>20000000000</b>	GAS LIMIT <b>6721975</b>	HARDFORK <b>PETERSBURG</b>	NETWORK ID <b>5777</b>	RPC SERVER <b>HTTP://127.0.0.1:7545</b>	MINING STATUS <b>AUTOMINING</b>	WORKSPACE <b>KNOWN-PRODUCE</b>	<b>SWITCH</b>
---------------------------	---------------------------------	-----------------------------	-------------------------------	---------------------------	--------------------------------------------	------------------------------------	-----------------------------------	---------------

**MNEMONIC** ⓘ  
more paddle scissors photo finish sing matrix snow this wrist build announce

**HD PATH**  
m/44'/60'/0'/0/account\_index

ADDRESS	BALANCE	TX COUNT	INDEX	
0xfD005d89e2Fe4B22348c21FD84773BF45cF2f6b1	99.98 ETH	4	0	
0x673C667c4EBeEF95D458e9FdDeed98C9854ba9D4	95.00 ETH	1	1	
0x2211CAA2E361554534b4C451A25151276Db64f86	97.00 ETH	1	2	
0x1b09AAEb7b7da83F9Ee386715D22eE92d2C151f9	100.00 ETH	0	3	
0x0B02b3cd75c7052c79c13E720A6d13A6Ae585DDE	100.00 ETH	0	4	
0xB817CE41772F152992e463A3C7a6b9aD120E3986	100.00 ETH	0	5	

### 2.3. auctionEnd Function:

```
gasUsed: 52191
```

[illegible][illegible]

## 2.4. Withdraw function:

gasUsed: 19421

[illegible]

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ACCOUNTS

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TRANSACTIONS

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EVENTS

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SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK  
8

GAS PRICE  
20000000000

GAS LIMIT  
6721975

HARDFORK  
PETERSBURG

NETWORK ID  
5777

RPC SERVER  
HTTP://127.0.0.1:7545

MINING STATUS  
AUTOMINING

WORKSPACE  
KNOWN-PRODUCE

SWITCH

MNEMONIC

more paddle scissors photo finish sing matrix snow this wrist build announce

HD PATH  
m/44'/60'/0'/0/account\_index

ADDRESS

0xfD05d89e2Fe4B22348c21FD84773BF45cf2f6b1

BALANCE

104.98 ETH

TX COUNT

5

INDEX

0

ADDRESS

0x673C667c4EBefE95D458e9FdDeed98C9854ba9D4

BALANCE

95.00 ETH

TX COUNT

1

INDEX

1

ADDRESS

0x2211CAA2E361554534b4C451A25151276Db64f86

BALANCE

100.00 ETH

TX COUNT

2

INDEX

2

ADDRESS

0x1b09AAEb7b7da83F9Ee386715D22eE92d2C151f9

BALANCE

100.00 ETH

TX COUNT

0

INDEX

3

ADDRESS

0x0802b3cd75c7052c79c13E720A6d13A6Ae585DDE

BALANCE

100.00 ETH

TX COUNT

0

INDEX

4

ADDRESS

0xB817CE41772F152992e463A3C7a6b9aD120E3986

BALANCE

100.00 ETH

TX COUNT

0

INDEX

5

Start

**3. A screenshot showing the details of the transaction sent from the contract to the beneficiary account when "auctionEnd" is triggered**

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ACCOUNTS
 BLOCKS
 TRANSACTIONS
 CONTRACTS
 EVENTS
 LOGS

SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK	GAS PRICE	GAS LIMIT	HARDFORK	NETWORK ID	RPC SERVER	MINING STATUS	WORKSPACE	
7	2000000000	6721975	PETERSBURG	5777	HTTP://127.0.0.1:7545	AUTOMINING	KNOWN-PRODUCE	<div style="float: right;"> <span style="background-color: orange; color: black; padding: 2px 5px; border-radius: 4px;">SWITCH</span> <span style="background-color: #2d3748; color: white; padding: 2px 5px; border-radius: 4px;"></span> </div>

MNEMONIC ⓘ more paddle scissors photo finish sing matrix snow this wrist build announce

HD PATH m/44'/60'/0'/0/account\_index

ADDRESS	BALANCE	TX COUNT	INDEX	
0xfD005d89e2Fe4B22348c21FD84773BF45cF2f6b1	104.98 ETH	5	0	
0x673C667c4EBeEF95D458e9FdDeed98C9854ba9D4	95.00 ETH	1	1	
0x2211CAA2E361554534b4C451A25151276Db64f86	97.00 ETH	1	2	
0x1b09AAEb7b7da83F9Ee386715D22eE92d2C151f9	100.00 ETH	0	3	
0x0B02b3cd75c7052c79c13E720A6d13A6Ae585DDE	100.00 ETH	0	4	
0xB817CE41772F152992e463A3C7a6b9aD120E3986	100.00 ETH	0	5	

Since 3ETH, 5ETH are the bids that were raised, after auctionEnd, the beneficiary will have 100+5-transactioncost in its account.



## 4. Some other scenarios:

- Only beneficiary can call auction end function. Any other calling should give an error.

```
truffle(ganache)> await instance.auctionEnd({from:accounts[2]})
Thrown:
Error: Returned error: VM Exception while processing transaction:
revert Only beneficiary can trigger auctionEnd -- Reason given: Only
beneficiary can trigger auctionEnd.
```

```

id: "log_91d4cc98b",
event: "HighestBidIncreased",
args: [Result]
}
}
}
truffle(ganache)> await instance.auctionEnd({from:accounts[2]})
Thrown:
Error: Returned error: VM Exception while processing transaction: revert Only beneficiary can trigger auctionEnd -- Reason given: Only beneficiary can trigger auctionEnd. at PromiEvent (C:\Users\Sindhu\AppData\Roaming\npm\node_modules\truffle\build\webpack:\packages\contract\lib\promise.js:9:1)
at truffleContract.auctionEnd (C:\Users\Sindhu\AppData\Roaming\npm\node_modules\truffle\build\webpack:\packages\contract\lib\execute.js:169:1)
at evalmachine.<anonymous>:1:18
at evalmachine.<anonymous>:2:49
at signHandlerSwamp (vm.js:269:15)
at Script.runInContext (vm.js:124:14)
at runScript (C:\Users\Sindhu\AppData\Roaming\npm\node_modules\truffle\build\webpack:\packages\core\lib\console.js:222:1)
at Console.interpret (C:\Users\Sindhu\AppData\Roaming\npm\node_modules\truffle\build\webpack:\packages\core\lib\console.js:237:1)
at REPLManager.interpret (C:\Users\Sindhu\AppData\Roaming\npm\node_modules\truffle\build\webpack:\packages\core\lib\repl.js:131:1)
at bound (domain.js:419:12)
at REPLServer.runBound [as eval] (domain.js:432:12)
at REPLServer.onLine (repl.js:716:10)
at REPLServer.emit (events.js:223:5)
at REPLServer.EventEmitter.emit (domain.js:475:20)
at REPLServer.Interface.onLine (readline.js:313:10)
at REPLServer.Interface._normalWrite (readline.js:460:12)
at Socket.ondata (readline.js:172:10)
at Socket.emit (events.js:223:5)
at Socket.EventEmitter.emit (domain.js:475:20)
at addChunk (_stream_readable.js:309:12)
at readableAddChunk (_stream_readable.js:290:11)
at Socket.Readable.push (_stream_readable.js:224:10) {
  reason: 'Only beneficiary can trigger auctionEnd',
  hijackedStack: 'Error: Returned error: VM Exception while processing transaction: revert Only beneficiary can trigger auctionEnd -- Reason given: Only beneficiary can trigger auctionEnd.\n' +
    '    at Object.ErrorResponse (C:\\Users\\Sindhu\\AppData\\Roaming\\npm\\node_modules\\truffle\\build\\webpack:\\node_modules\\web3-core-requestmanager\\src\\errors.js:29:1)\n' +
    '    at C:\\Users\\Sindhu\\AppData\\Roaming\\npm\\node_modules\\truffle\\build\\webpack:\\node_modules\\web3-core-requestmanager\\src\\index.js:140:1\n' +
    '    at C:\\Users\\Sindhu\\AppData\\Roaming\\npm\\node_modules\\truffle\\build\\webpack:\\packages\\provider\\wrapper.js:112:1\n' +
    '    at XMLHttpRequest.request.onreadystatechange (C:\\Users\\Sindhu\\AppData\\Roaming\\npm\\node_modules\\truffle\\build\\webpack:\\node_modules\\web3-providers-http\\src\\index.js:96:1)\n' +
    '    at XMLHttpRequestEventTarget.dispatchEvent (C:\\Users\\Sindhu\\AppData\\Roaming\\npm\\node_modules\\truffle\\build\\webpack:\\node_modules\\xhr2-cookies\\dist\\xml-http-request-event-target.js:34:1)\n' +
    '    at XMLHttpRequest._setReadyState (C:\\Users\\Sindhu\\AppData\\Roaming\\npm\\node_modules\\truffle\\build\\webpack:\\node_modules\\xhr2-cookies\\dist\\xml-http-request.js:208:1)\n' +
    '    at XMLHttpRequest._onHttpResponseEnd (C:\\Users\\Sindhu\\AppData\\Roaming\\npm\\node_modules\\truffle\\build\\webpack:\\node_modules\\xhr2-cookies\\dist\\xml-http-request.js:318:1)\n' +
    '    at IncomingMessage.<anonymous> (C:\\Users\\Sindhu\\AppData\\Roaming\\npm\\node_modules\\truffle\\build\\webpack:\\node_modules\\xhr2-cookies\\dist\\xml-http-request.js:289:47)\n' +
    '    at IncomingMessage.emit (events.js:228:7)\n' +
    '    at IncomingMessage.EventEmitter.emit (domain.js:498:23)\n' +
    '    at endReadableNT (_stream_readable.js:1185:12)\n' +
    '    at processTicksAndRejections (internal/process/task_queues.js:81:21)'
}
```

- If A bids 3, B bids 5, A again bids 7, Then all bids are accepted and after auction end, beneficiary account is credited by 7, and when A calls withdraw function, 3ether should be credited to A's account.

```
await instance.bid({from:accounts[1],value:web3.utils.toWei('3','ether'))}
```

Ganache									
ACCOUNTS		BLOCKS	TRANSACTIONS	CONTRACTS	EVENTS	LOGS	SEARCH FOR BLOCK NUMBERS OR TX HASHES		
CURRENT BLOCK	5	GAS PRICE	2000000000	GAS LIMIT	6721975	HARDFORK	PETERSBURG	NETWORK ID	5777
RPC SERVER	HTTP://127.0.0.1:7545	MINING STATUS	AUTOMINING	WORKSPACE	MALICIOUS-BREAKFAST	SWITCH			
MNEMONIC								HD PATH	
capable web image lamp talk trumpet sponsor carry sponsor rail throw horse								m/44'/60'/0'/0/account_index	
ADDRESS	0xbd2e9a33964c186E37cAC4f84Dbee5476b733E8C	BALANCE	99.98 ETH	TX COUNT	4	INDEX	0		
ADDRESS	0xfa72C8F0fc9A876D791a778A4447862dEd75BBDA	BALANCE	97.00 ETH	TX COUNT	1	INDEX	1		
ADDRESS	0x7888A67090EE77a0135701F83560b23d4beC0150	BALANCE	100.00 ETH	TX COUNT	0	INDEX	2		
ADDRESS	0x5F9B076eACc363bf6abdF22cD3cC28699D1ee3F9	BALANCE	100.00 ETH	TX COUNT	0	INDEX	3		
ADDRESS	0x375b69A583767CC997faF1FbDbD77A7886bE87CA	BALANCE	100.00 ETH	TX COUNT	0	INDEX	4		
ADDRESS	0xb03B11C437dE04DAE8d576294AFBA003E9Cc6Ea4	BALANCE	100.00 ETH	TX COUNT	0	INDEX	5		
ADDRESS		BALANCE		TX COUNT		INDEX			



await instance.bid({from:accounts[2],value:web3.utils.toWei('5','ether')})

ACCOUNTS

BLOCKS

TRANSACTIONS

CONTRACTS

EVENTS

LOGS

SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK  
6

GAS PRICE  
20000000000

GAS LIMIT  
6721975

HARDFORK  
PETERSBURG

NETWORK ID  
5777

RPC SERVER  
HTTP://127.0.0.1:7545

MINING STATUS  
AUTOMINING

WORKSPACE  
MALICIOUS-BREAKFAST

SWITCH

MMEMONIC

capable web image lamp talk trumpet sponsor carry sponsor rail throw horse

HD PATH

m/44'/60'/0'/0/account\_index

ADDRESS	BALANCE	TX COUNT	INDEX	
0xbd2e9a33964c186E37cAC4f84Dbee5476b733E8C	99.98 ETH	4	0	
ADDRESS	BALANCE	TX COUNT	INDEX	
0xfa72C8F0fc9A876D791a778A4447862dEd75BBDA	97.00 ETH	1	1	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x7888A67090EE77a0135701F83560b23d4beC0150	95.00 ETH	1	2	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x5F9B076eACc363bf6abdF22cD3cC28699D1ee3F9	100.00 ETH	0	3	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x375b69A583767CC997faF1FbDbD77A7886bE87CA	100.00 ETH	0	4	
ADDRESS	BALANCE	TX COUNT	INDEX	
0xb03B11C437dE04DAE8d576294AFBA003E9Cc6Ea4	100.00 ETH	0	5	
ADDRESS	BALANCE	TX COUNT	INDEX	

await instance.bid({from:accounts[1],value:web3.utils.toWei('7','ether')})

ACCOUNTS

BLOCKS

TRANSACTIONS

CONTRACTS

EVENTS

LOGS

SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK  
7

GAS PRICE  
20000000000

GAS LIMIT  
6721975

HARDFORK  
PETERSBURG

NETWORK ID  
5777

RPC SERVER  
HTTP://127.0.0.1:7545

MINING STATUS  
AUTOMINING

WORKSPACE  
MALICIOUS-BREAKFAST

SWITCH

MMEMONIC

capable web image lamp talk trumpet sponsor carry sponsor rail throw horse

HD PATH

m/44'/60'/0'/0/account\_index

ADDRESS	BALANCE	TX COUNT	INDEX	
0xbd2e9a33964c186E37cAC4f84Dbee5476b733E8C	99.98 ETH	4	0	
ADDRESS	BALANCE	TX COUNT	INDEX	
0xfa72C8F0fc9A876D791a778A4447862dEd75BBDA	90.00 ETH	2	1	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x7888A67090EE77a0135701F83560b23d4beC0150	95.00 ETH	1	2	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x5F9B076eACc363bf6abdF22cD3cC28699D1ee3F9	100.00 ETH	0	3	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x375b69A583767CC997faF1FbDbD77A7886bE87CA	100.00 ETH	0	4	
ADDRESS	BALANCE	TX COUNT	INDEX	
0xb03B11C437dE04DAE8d576294AFBA003E9Cc6Ea4	100.00 ETH	0	5	
ADDRESS	BALANCE	TX COUNT	INDEX	

await instance.auctionEnd({from:accounts[0]})

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ACCOUNTS

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SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK

GAS PRICE

GAS LIMIT

HARDFORK

NETWORK ID

RPC SERVER

MINING STATUS

WORKSPACE

8

20000000000

6721975

PETERSBURG

5777

HTTP://127.0.0.1:7545

AUTOMINING

MALICIOUS-BREAKFAST

SWITCH

MNEMONIC

capable web image lamp talk trumpet sponsor carry sponsor rail throw horse

HD PATH

m/44'/60'/0'/0/account\_index

ADDRESS

0xbd2e9a33964c186E37cAC4f84Dbee5476b733E8C

BALANCE

106.98 ETH

TX COUNT

5

INDEX

0

ADDRESS

0xfa72C8F0fc9A876D791a778A4447862dEd75BBDA

BALANCE

90.00 ETH

TX COUNT

2

INDEX

1

ADDRESS

0x7888A67090EE77a0135701F83560b23d4beC0150

BALANCE

95.00 ETH

TX COUNT

1

INDEX

2

ADDRESS

0x5F9B076eACc363bf6abdF22cD3cC28699D1ee3F9

BALANCE

100.00 ETH

TX COUNT

0

INDEX

3

ADDRESS

0x375b69A583767CC997faF1FbDbd77A7886bE87CA

BALANCE

100.00 ETH

TX COUNT

0

INDEX

4

ADDRESS

0xb03B11C437dE04DAE8d576294AFBA003E9Cc6Ea4

BALANCE

100.00 ETH

TX COUNT

0

INDEX

5

ADDRESS

BALANCE

TX COUNT

INDEX

await instance.withdraw({from:accounts[2]})

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ACCOUNTS

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CURRENT BLOCK

9

GAS PRICE

20000000000

GAS LIMIT

6721975

HARDFORK

PETERSBURG

NETWORK ID

5777

RPC SERVER

HTTP://127.0.0.1:7545

MINING STATUS

AUTOMINING

WORKSPACE

KNOWN-PRODUCE

SWITCH

MNEMONIC

speed layer pet enjoy this carbon melt step attitude air that engine

HD PATH

m/44'/60'/0'/0/account\_index

ADDRESS

0x95694B977419e007661C51D73CDa707D6E2E005A

BALANCE

106.98 ETH

TX COUNT

5

INDEX

0

ADDRESS

0x428b7903795CF734AEA994Ce618eef2E3C84BB9f

BALANCE

90.00 ETH

TX COUNT

2

INDEX

1

ADDRESS

0x4eE7aCe33448D9D152B7c6Ab347946Cb844AcBAC

BALANCE

100.00 ETH

TX COUNT

2

INDEX

2

ADDRESS

0x409354055B999b5C7F2039b2917594a807aFA904

BALANCE

100.00 ETH

TX COUNT

0

INDEX

3

ADDRESS

0x5cd8B443BADc838Ca9BB1F80c9645517600B401f

BALANCE

100.00 ETH

TX COUNT

0

INDEX

4

ADDRESS

0x34E772d4497d075983f74b1a524d7B37578dE2ba

BALANCE

100.00 ETH

TX COUNT

0

INDEX

5

ADDRESS

BALANCE

TX COUNT

INDEX

await instance.withdraw({from:accounts[1]})

Ganache

ACCOUNTS

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SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK  
10

GAS PRICE  
20000000000

GAS LIMIT  
6721975

HARDFORK  
PETERSBURG

NETWORK ID  
5777

RPC SERVER  
HTTP://127.0.0.1:7545

MINING STATUS  
AUTOMINING

WORKSPACE  
KNOWN-PRODUCE

SWITCH

MMEMONIC

speed layer pet enjoy this carbon melt step attitude air that engine

HD PATH

m/44'/60'/0'/0/account\_index

ADDRESS	BALANCE	TX COUNT	INDEX	
0x95694B977419e007661C51D73CDa707D6E2E005A	106.98 ETH	5	0	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x428b7903795CF734AEA994Ce618eef2E3C84BB9f	93.00 ETH	3	1	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x4eE7aCe33448D9D152B7c6Ab347946Cb844AcBAC	100.00 ETH	2	2	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x409354055B999b5C7F2039b2917594a807aFA904	100.00 ETH	0	3	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x5cd8B443BADC838Ca9BB1F80c9645517600B401f	100.00 ETH	0	4	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x34E772d4497d075983f74b1a524d7B37578dE2ba	100.00 ETH	0	5	
ADDRESS	BALANCE	TX COUNT	INDEX	