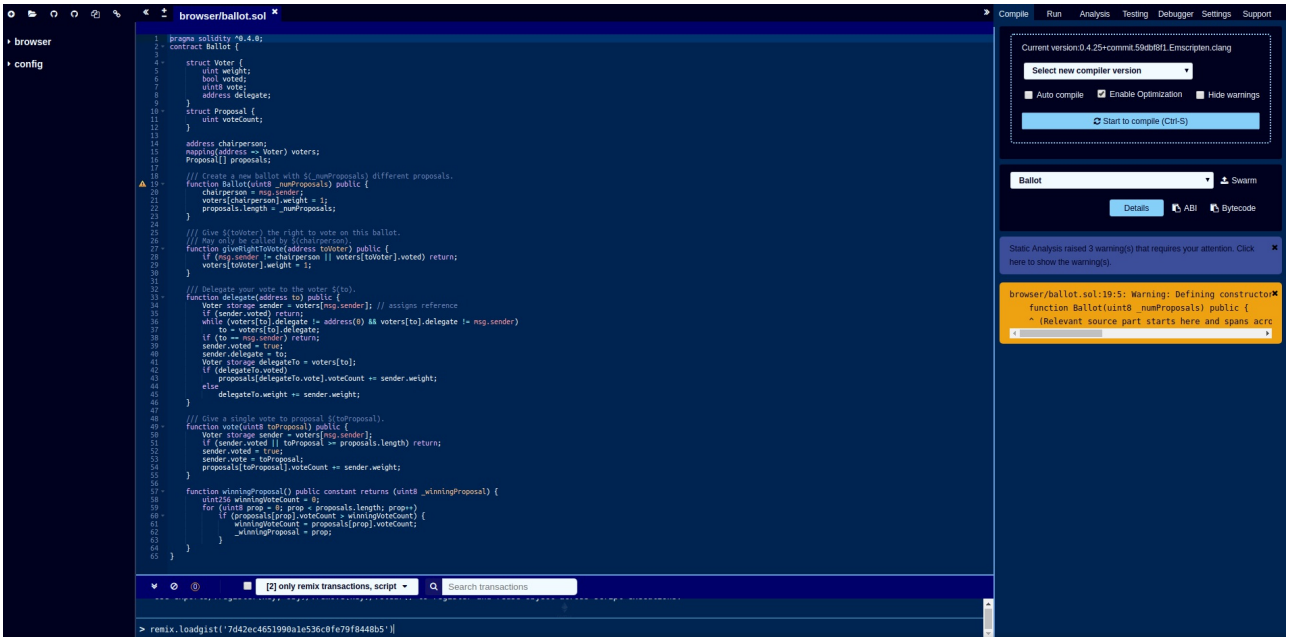
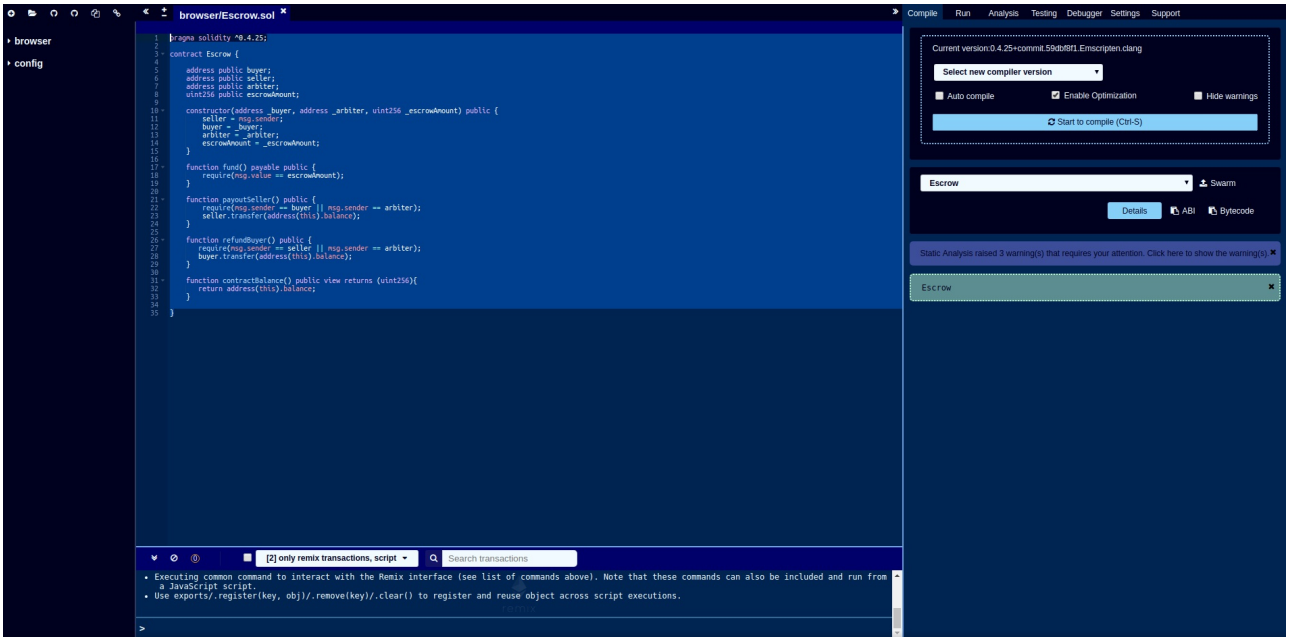
Presentation (record and replay contract deplyment and interaction)

- gist 7d42ec4651990a1e536c0fe79f8448b5

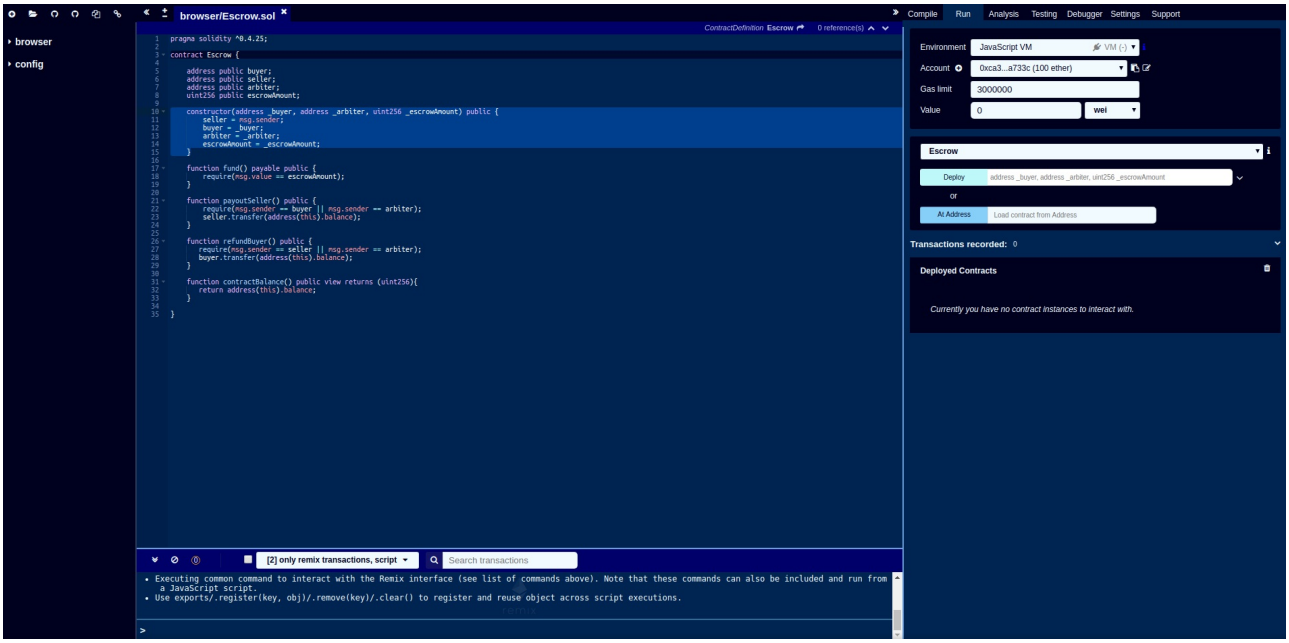
0. load gist with files from terminal



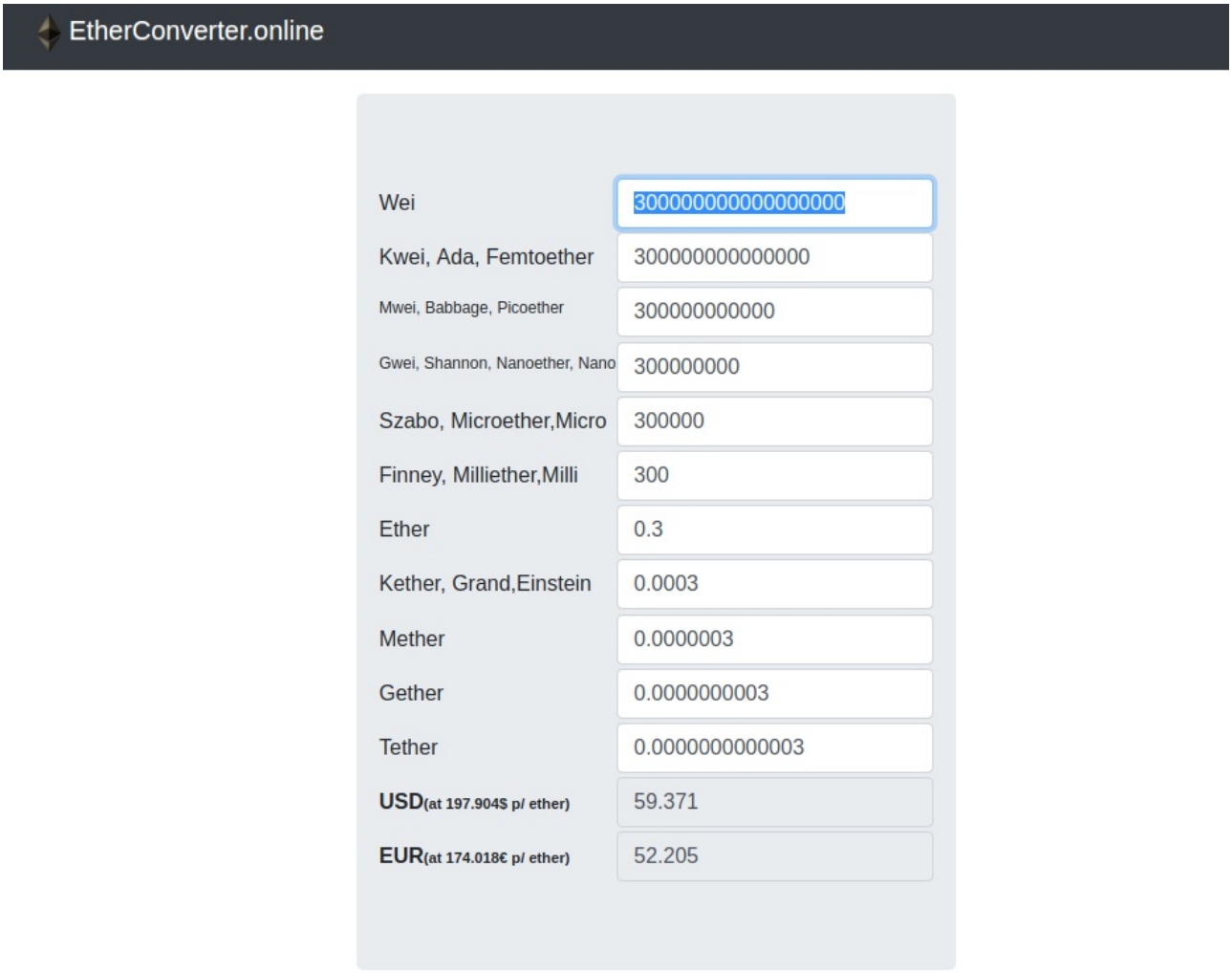
1. open and compile `Escrow.sol`



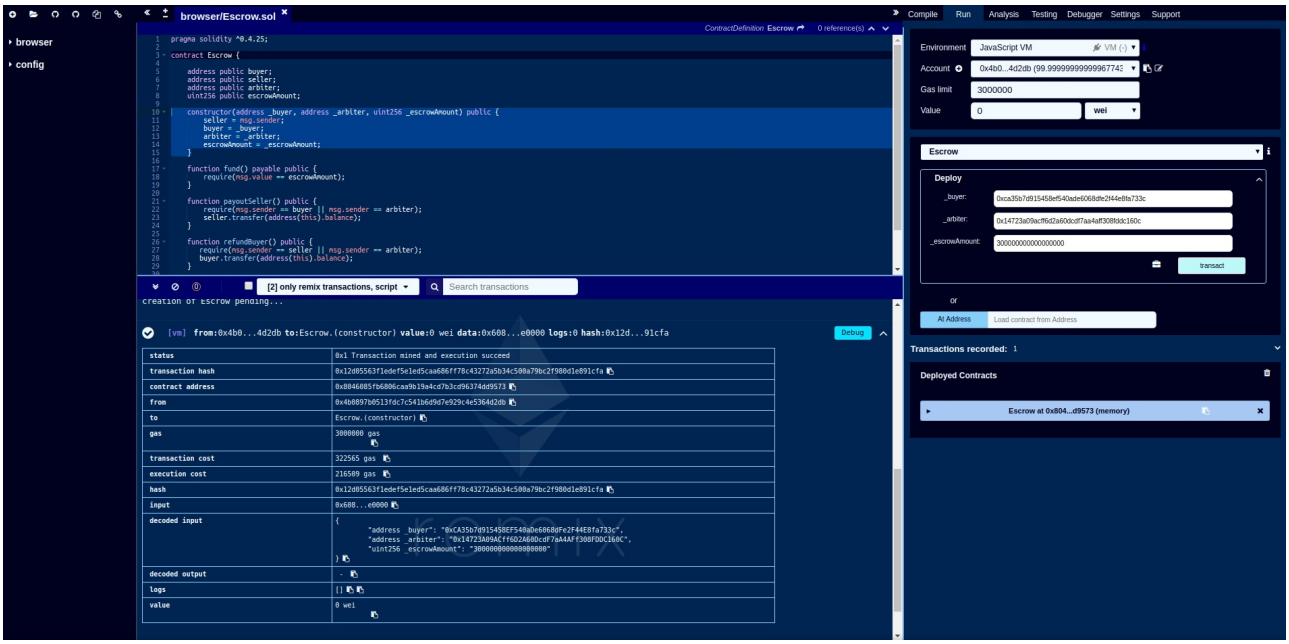
2. switch to run tab and check constructor



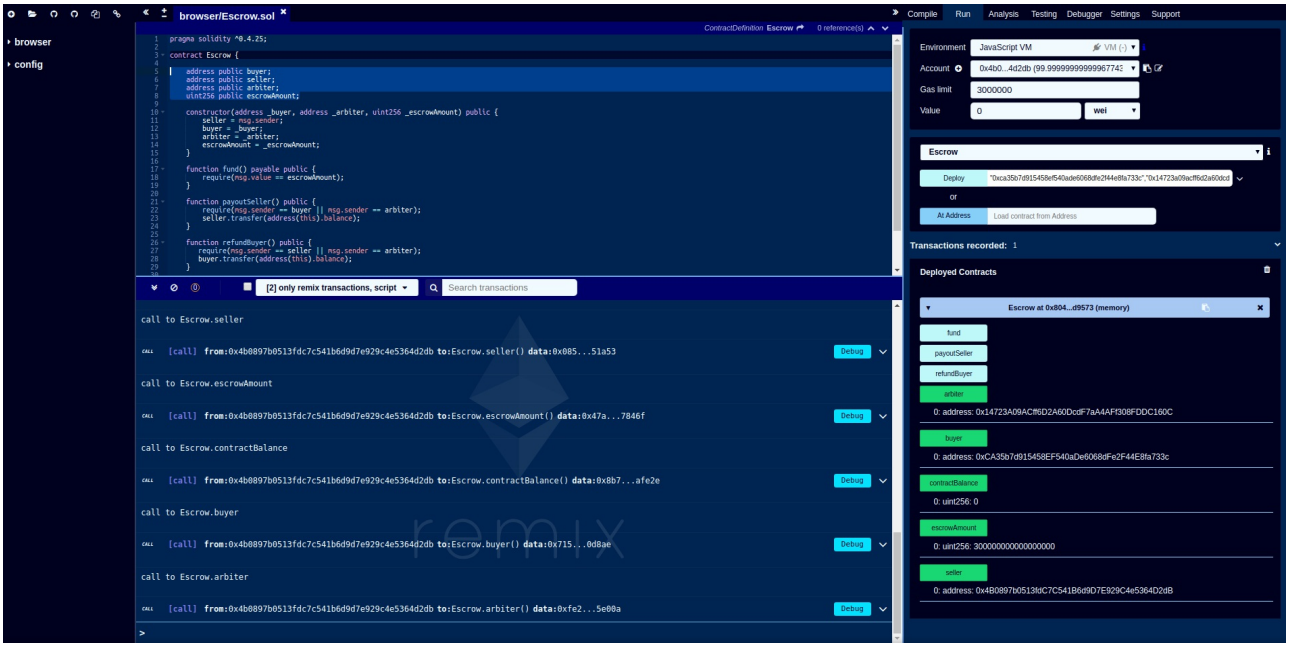
3. convert `0.3` ether to wei for `escrowAmount` parameter



4. drop down Escrow constructor form, fill out arguments and deploy (`transact`)

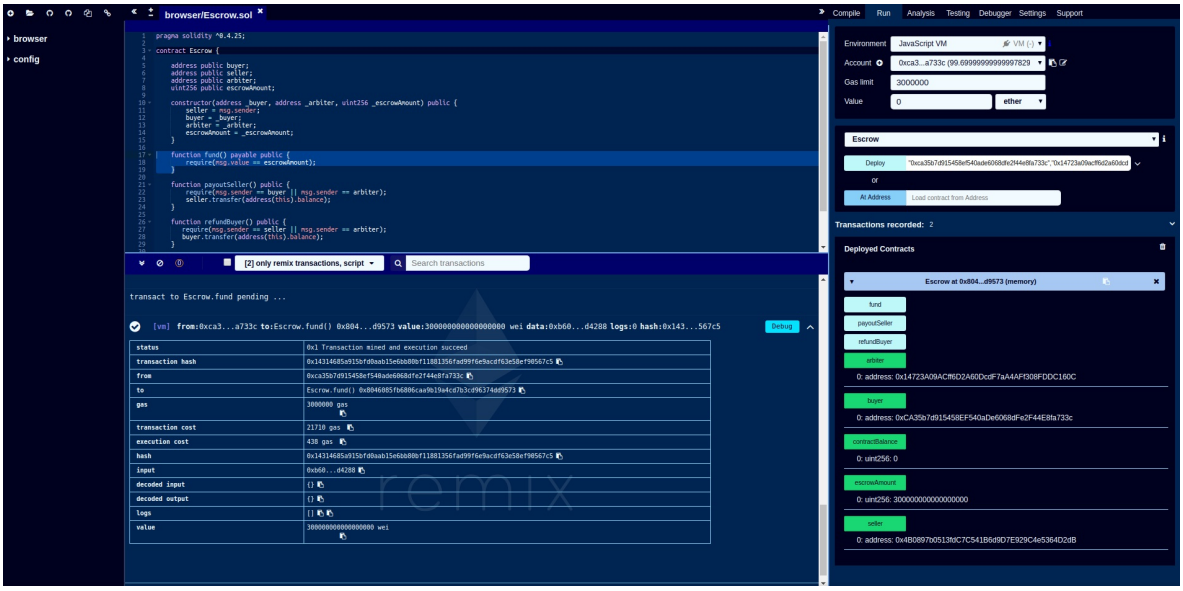


5. check some fields to see `contractBalance` is 0

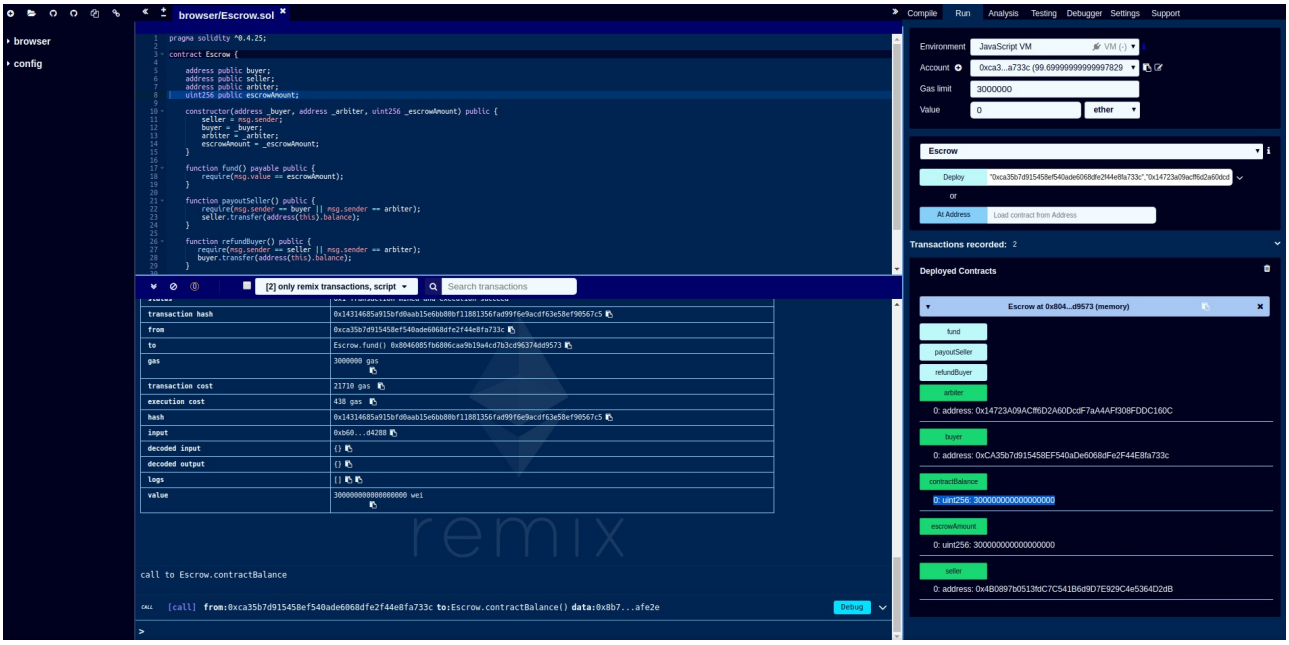


6. switch to buyer address, set "Value" to `0.3` and select Ether, then click `fund`

- `0.3` Ether have been sent to the escrow contract instance
- After you click fund, the "Value" field will be reset to 0

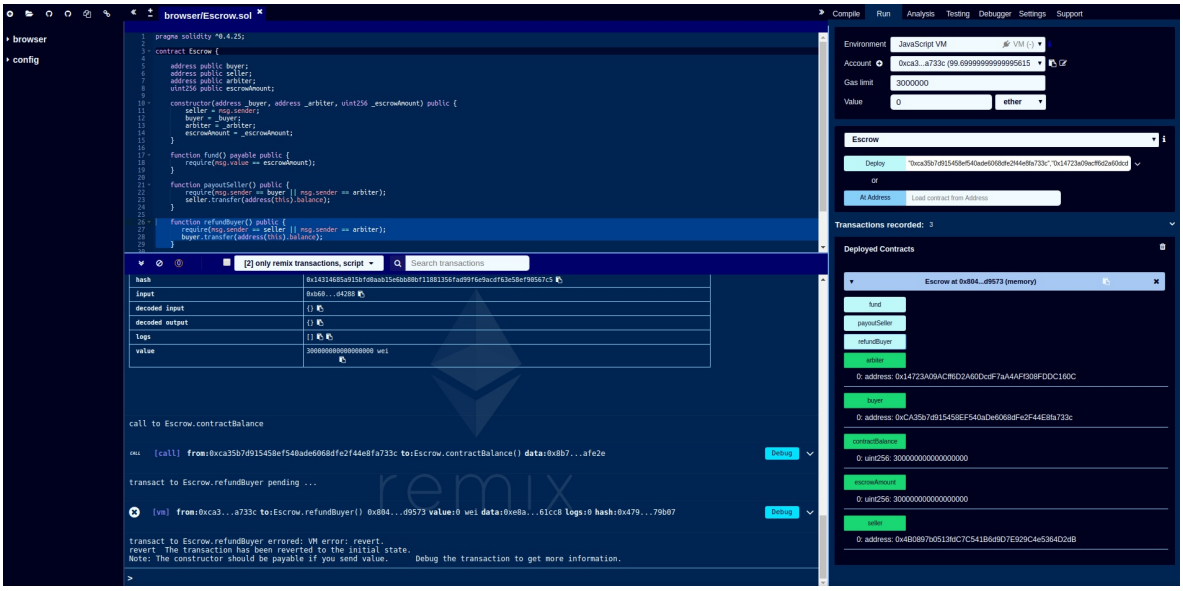


7. click `contractBalance` to see it has changed from 0 to 30000000000000000



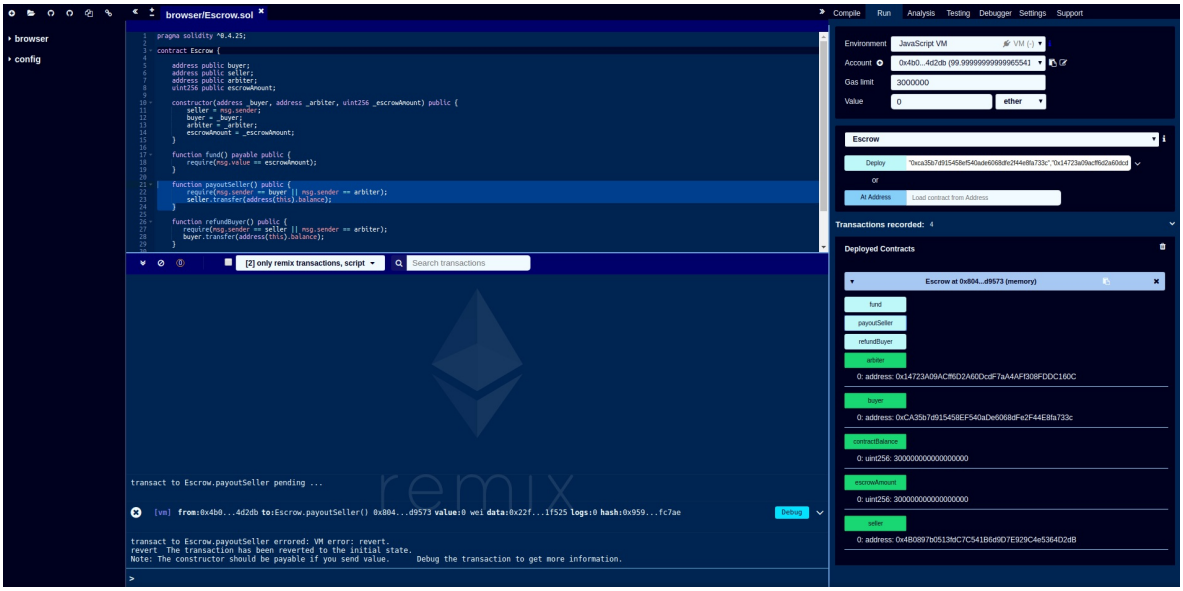
8. try to `refundBuyer` and see it fail

- Because the contract defines that you as the buyer cant refund

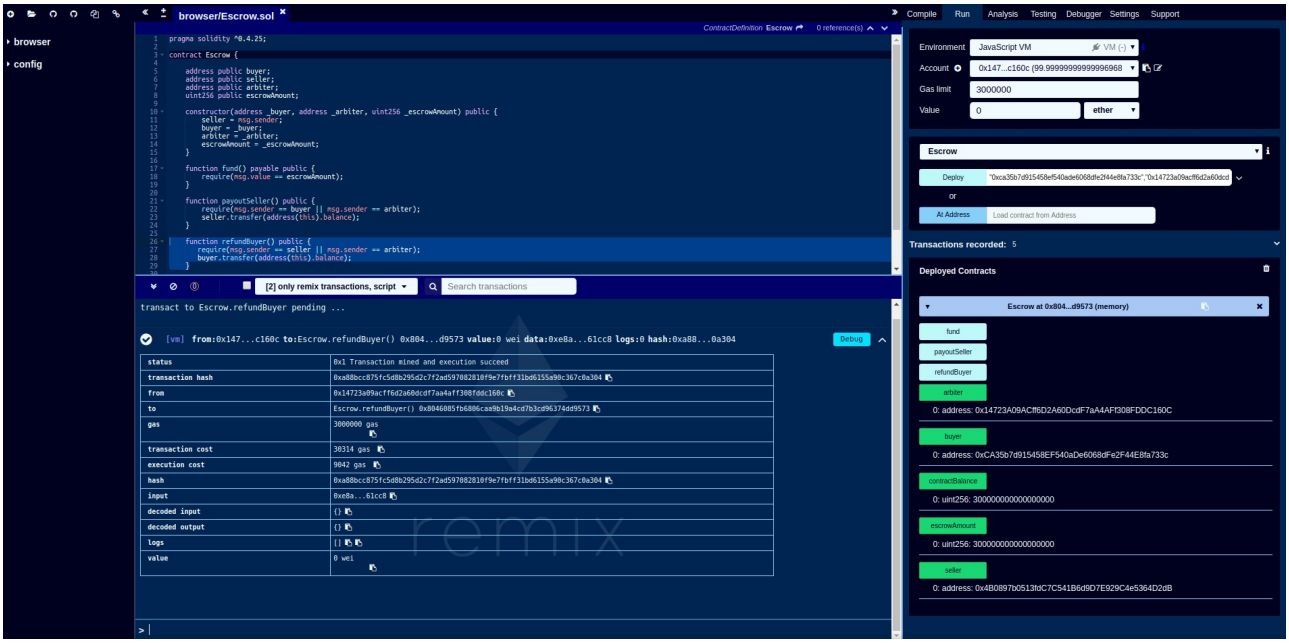


9. switch to `seller` address and try to `payoutSeller` and see it fail

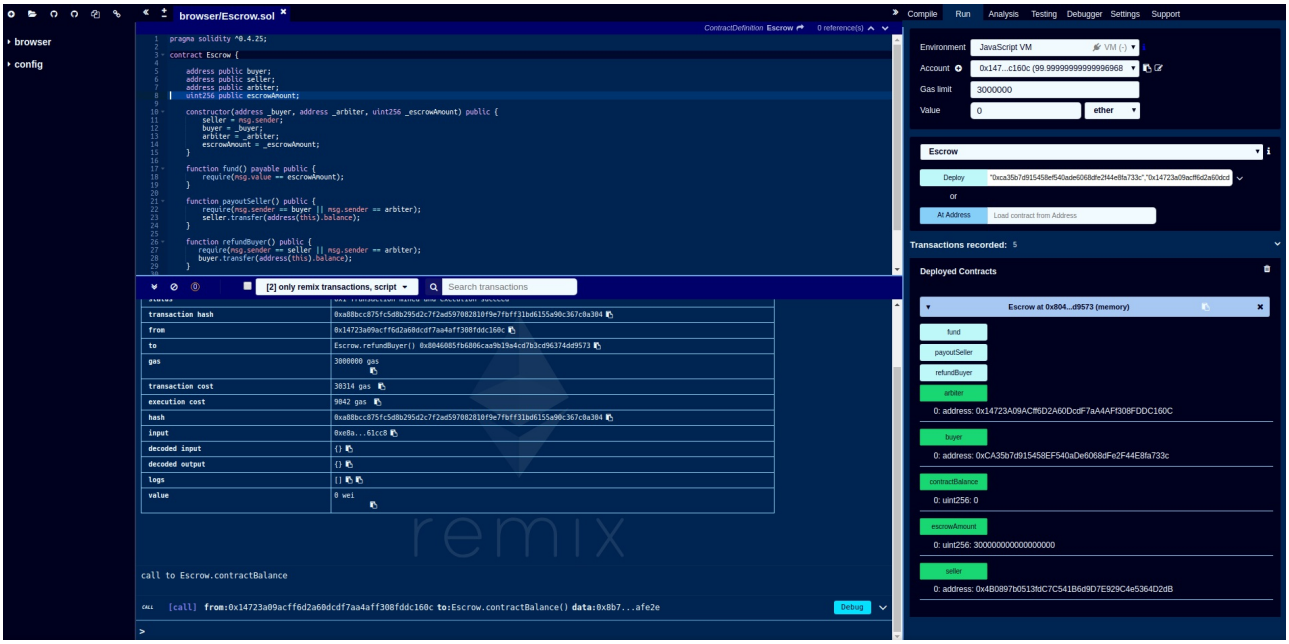
- Because the contract defines that you as a seller cant payout



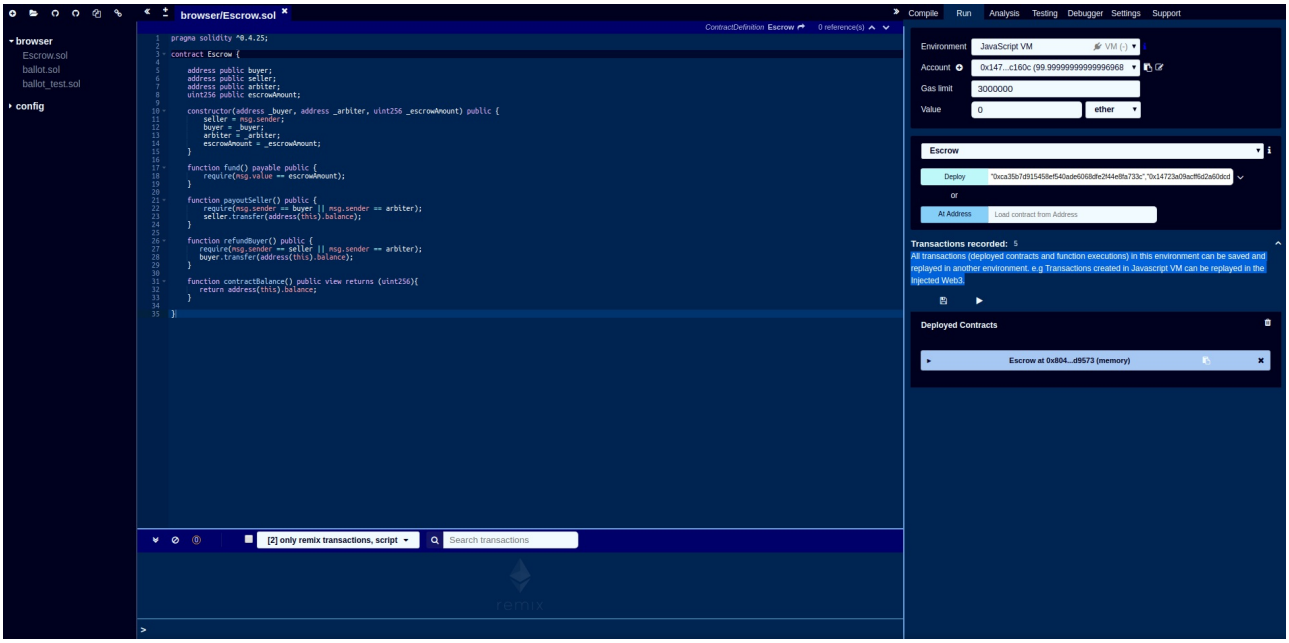
10. switch to `arbiter` address and decide to cancel by `refundBuyer`



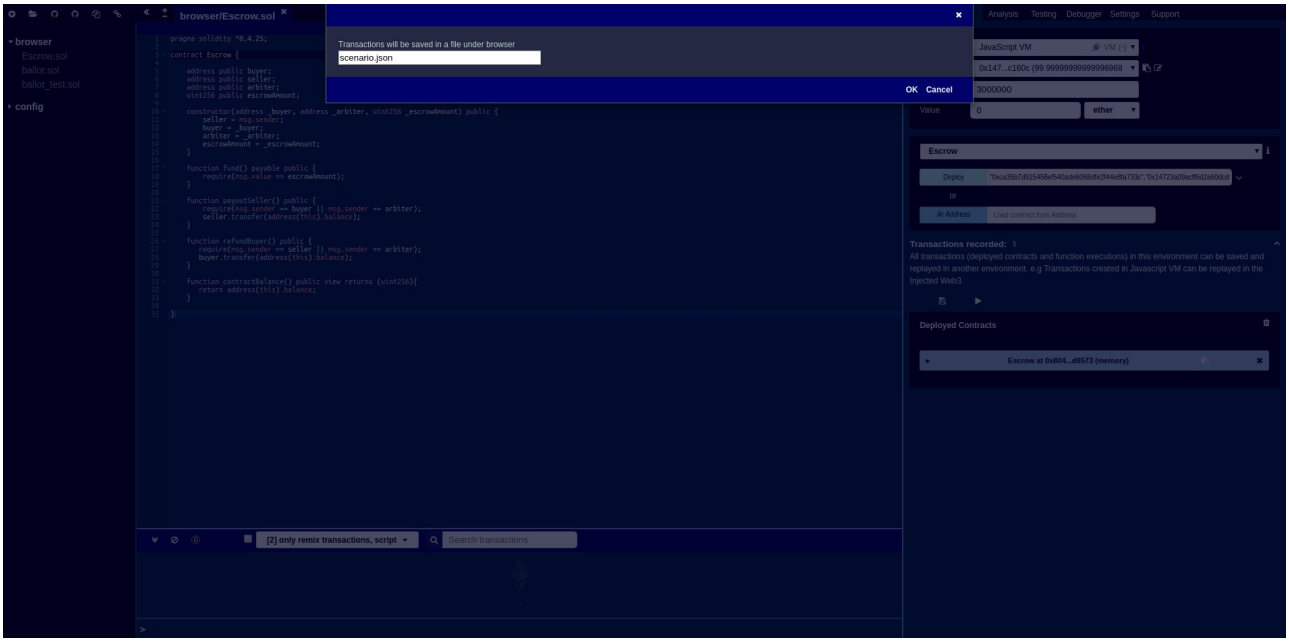
11. check `escrowAmount` and see it has changed from 30000000000000000 to 0



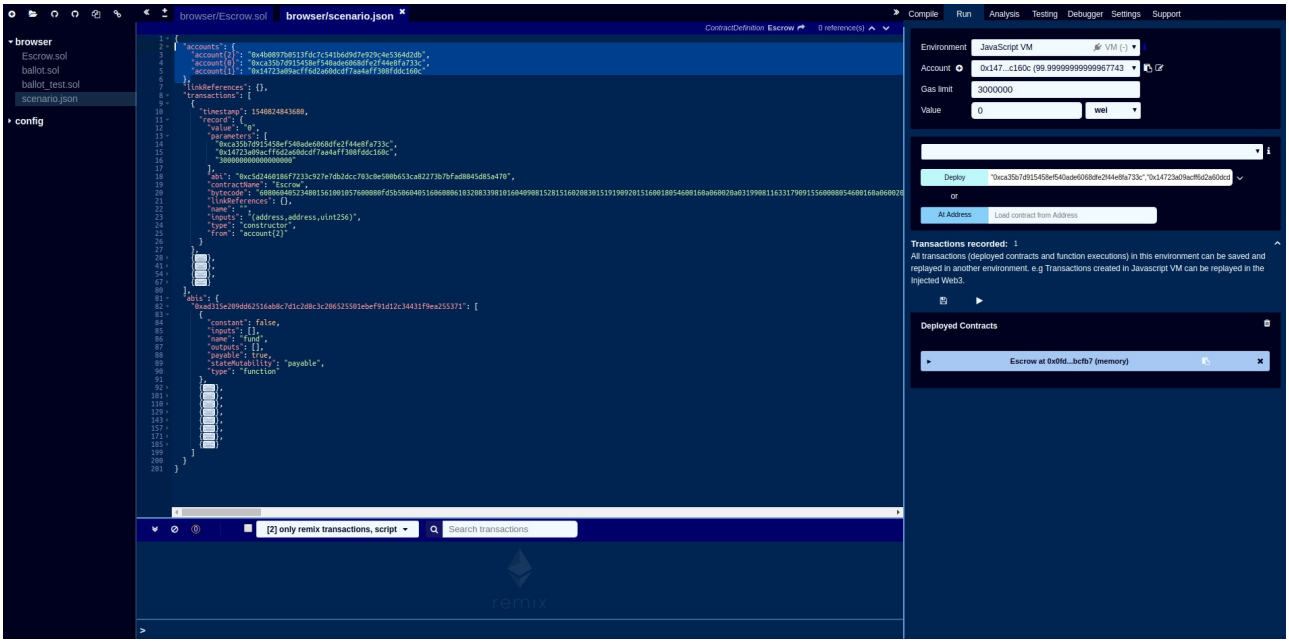
12. Go to "Transactions recorded" and click the dropdown and "save icon"



13. choose file name and click ok

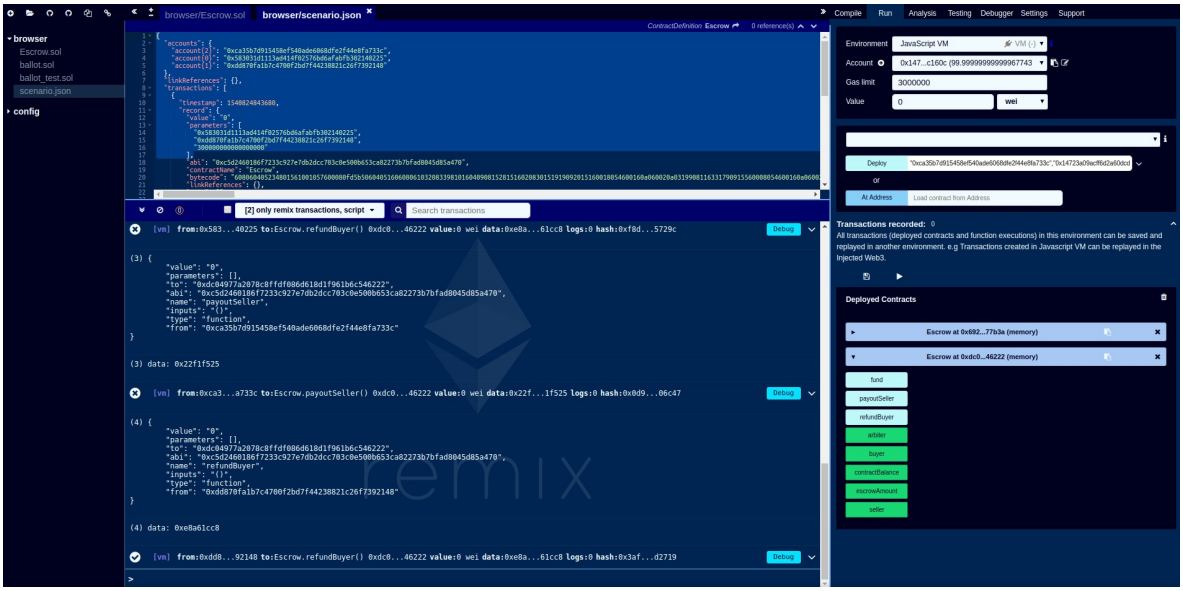


14. see the saved recording json file



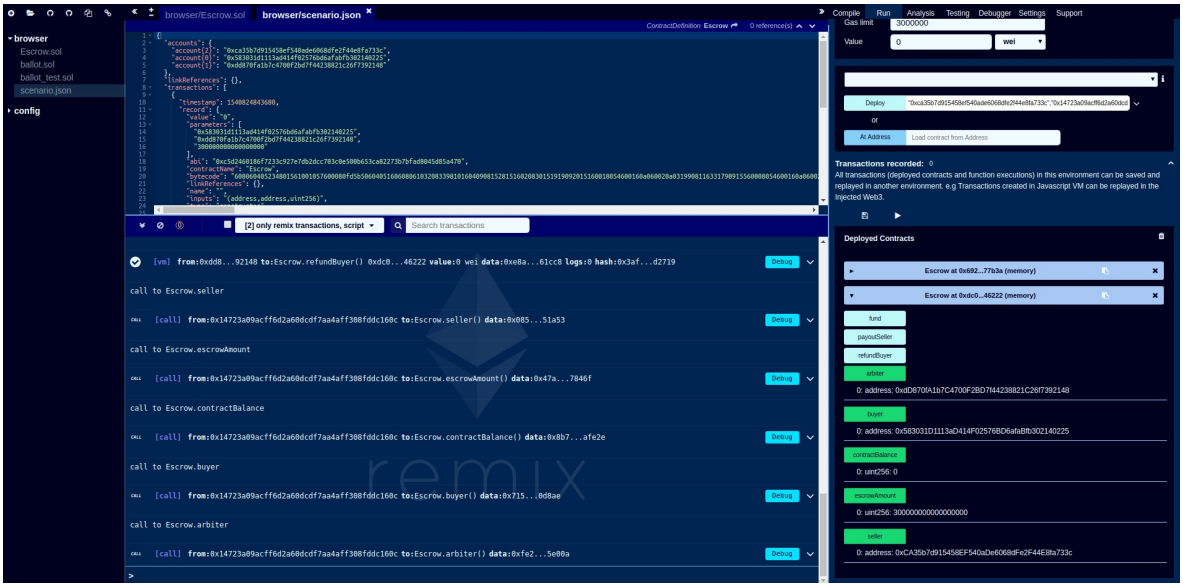
15. for example change addresses and constructor params and click PLAY to replay

- see all 5 transactions repeat with the changed data
- see another instance of the newly deployed contract



16. check all read only methods and see values have the changed ones

- contractBalance is 0 because everything has already been refunded to the buyer by arbiter


browser
Escrow.sol
ballot.sol
ballot_test.sol
scenario.json
config
browser/Escrow.sol
browser/scenario.json
ContractDefinition Escrow
0 reference(s)
{
"accounts": {
"account{2}": "0xca35b7d915458ef540ade6068dfe2f44e8fa733c",
"account{0}": "0x583031d1113ad414f02576bd6afabfb302140225",
"account{1}": "0xdd870fa1b7c4700f2bd7f44238821c26f7392148"
},
"linkReferences": {},
"transactions": [
{
"timestamp": 1540824043600,
"record": {
"value": "0",
"parameters": [
"0x583031d1113ad414f02576bd6afabfb302140225",
"0xdd870fa1b7c4700f2bd7f44238821c26f7392148",
"300000000000000000"
],
"abi": "0xc5d2460186f7233c927e7db2dcc703c0e500b653ca82273b7bfad8045d85a470",
"contractName": "Escrow",
"bytecode": "608060405234801561001057600080fd5b506040516060806103203833981016040908152815160208301519190920151600180546001600160a060020a0319908116331790915560008054600160a060020a0319
"linkReferences": {},
"name": "",
"inputs": "(address,address,uint256)",
[2] only remix transactions, script
Search transactions
[vm] from:0xdd8...92148 to:Escrow.refundBuyer() 0xdc0...46222 value:0 wei data:0xe8a...61cc8 logs:0 hash:0x3af...d2719
Debug
call to Escrow.seller
call [call] from:0x14723a09acff6d2a60dcdf7aa4aff308fddc160c to:Escrow.seller() data:0x085...51a53
Debug
call to Escrow.escrowAmount
call [call] from:0x14723a09acff6d2a60dcdf7aa4aff308fddc160c to:Escrow.escrowAmount() data:0x47a...7846f
Debug
call to Escrow.contractBalance
call [call] from:0x14723a09acff6d2a60dcdf7aa4aff308fddc160c to:Escrow.contractBalance() data:0x8b7...afe2e
Debug
call to Escrow.buyer
call [call] from:0x14723a09acff6d2a60dcdf7aa4aff308fddc160c to:Escrow.buyer() data:0x715...0d8ae
Debug
call to Escrow.arbiter
call [call] from:0x14723a09acff6d2a60dcdf7aa4aff308fddc160c to:Escrow.arbiter() data:0xfe2...5e00a
Debug
>
remix
Compile
Run
Analysis
Testing
Debugger
Settings
Support
Gas limit
3000000
Value
0
wei
Deploy
"0xca35b7d915458ef540ade6068dfe2f44e8fa733c","0x14723a09acff6d2a60dcd
or
At Address
Load contract from Address
Transactions recorded: 0
All transactions (deployed contracts and function executions) in this environment can be saved and replayed in another environment. e.g Transactions created in Javascript VM can be replayed in the Injected Web3.
Deployed Contracts
Escrow at 0x692...77b3a (memory)
Escrow at 0xdc0...46222 (memory)
fund
payoutSeller
refundBuyer
arbiter
0: address: 0xdD870fA1b7C4700F2BD7f44238821C26f7392148
buyer
0: address: 0x583031D1113aD414F02576BD6afaBfb302140225
contractBalance
0: uint256: 0
escrowAmount
0: uint256: 300000000000000000
seller
0: address: 0xCA35b7d915458EF540aDe6068dFe2F44E8fa733c