## 0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816

## October 9, 2022

```
[]: import pandas as pd
     from ethtx import EthTx, EthTxConfig
     from ethtx.models.decoded_model import DecodedTransaction
     from typing import List
[]: ethtx config = EthTxConfig(
         mongo_connection_string="mongomock://localhost/ethtx", ##MongoDB_
      ⇔connection string,
         etherscan_api_key="VQXUYMB6T6I2E9SF67JPKP6YCYFW5P645A", ##Etherscan API_
      \rightarrow key,
         web3nodes={
             "mainnet": {
                 "hook": "https://api.archivenode.io/
      →58db800c-c787-41c1-96d5-ed35e126eb35", # multiple nodes supported, separate<sub>□</sub>
      \hookrightarrow them with comma
                  "poa": False
             }
         },
         default_chain="mainnet",
         etherscan_urls={"mainnet": "https://api.etherscan.io/api", },
     )
     ethtx = EthTx.initialize(ethtx_config)
     """ decoded_transaction: DecodedTransaction = ethtx.decoders.decode_transaction(
         '0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816')
     print(decoded_transaction) """
```

[]: "decoded\_transaction: DecodedTransaction = ethtx.decoders.decode\_transaction(\n '0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816')\n\nprint(d ecoded transaction) "

```
[]: web3provider = ethtx.providers.web3provider
from ethtx.models.w3_model import W3Transaction, W3Block, W3Receipt, W3CallTree
```

```
# read raw transaction data directly from the node
w3transaction: W3Transaction = web3provider.get_transaction(
    '0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816')
w3block: W3Block = web3provider.get_block(w3transaction.blockNumber)
w3receipt: W3Receipt = web3provider.get_receipt(w3transaction.hash.hex())
w3calls: W3CallTree = web3provider.get_calls(w3transaction.hash.hex())
```

```
[]: from ethtx.models.decoded_model import (
         DecodedTransfer,
         DecodedBalance,
         DecodedEvent, DecodedCall,
     from ethtx.models.objects_model import Transaction, Event, Block, Call
     # read the raw transaction from the node
     transaction = Transaction.from_raw(
         w3transaction=w3transaction, w3receipt=w3receipt, w3calltree=w3calls
     # get proxies used in the transaction
     proxies = ethtx.decoders.get_proxies(transaction.root_call, "mainnet")
     block: Block = Block.from_raw(
         w3block=web3provider.get_block(transaction.metadata.block_number),
         chain_id="mainnet",
     )
     # decode transaction components
     abi_decoded_events: List[Event] = ethtx.decoders.abi_decoder.decode_events(
         transaction.events, block.metadata, transaction.metadata
     abi decoded calls: DecodedCall = ethtx.decoders.abi decoder.decode calls(
         transaction.root_call, block.metadata, transaction.metadata, proxies
     abi_decoded_transfers: List[
         DecodedTransfer
     ] = ethtx.decoders.abi_decoder.decode_transfers(abi_decoded_calls,_
      →abi_decoded_events)
     abi_decoded_balances: List[DecodedBalance] = ethtx.decoders.abi_decoder.
      →decode_balances(
         abi_decoded_transfers
     )
     print(abi_decoded_calls)
     print(abi_decoded_transfers)
     print(abi_decoded_balances)
     print(abi_decoded_events)
```

```
chain_id='mainnet' timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47)
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816'
call_id='' call_type='call'
from_address=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge=None)
to_address=AddressInfo(address='0x1111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge=None) value=0.0
function_signature='0x7c025200' function_name='swap'
arguments=[Argument(name='caller', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='desc',
type='tuple', value=[Argument(name='srcToken', type='address',
value='0xdac17f958d2ee523a2206206994597c13d831ec7'), Argument(name='dstToken',
type='address', value='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48'),
Argument(name='srcReceiver', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'),
Argument(name='dstReceiver', type='address',
value='0xc143790f399351c25a906bb3fb15630828f8e75e'), Argument(name='amount',
type='uint256', value=940024227336), Argument(name='minReturnAmount',
type='uint256', value=939126055934), Argument(name='flags', type='uint256',
value=4), Argument(name='permit', type='bytes', value='0x')]),
00000000000000000000000000064eb5625d90000000000000000000000dac17f958d2ee523a22
06206994597c13d831ec700000000000000000000000ba1222222228d8ba445958a75a0704d566
```

06206994597c13d831ec7000000000000000000000000002bbf681cc4eb09218bee85ea2a5d3d13fa4 000000000000000000000000000000000064eb5625d9000000000000000000000000dac17f958d2 ee523a2206206994597c13d831ec70000000000000000000000000c9f93163c99695c6526b799ebca  00000a0b86991c6218b36c1d19d4a2e9eb0ce3606eb48000000000000000000000000050f788d093 00000000000000000470bdb94700000000000000000000000b86991c6218b36c1d19d4a2e9 000000000000')] outputs=[Argument(name='returnAmount', type='uint256', value=940066121371), Argument(name='spentAmount', type='uint256', value=940024227336), Argument(name='gasLeft', type='uint256', value=97610)] gas used=599202 error=None status=True indent=0 subcalls=[DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47), tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816', call\_id='0', call\_type='call', from\_address=AddressInfo(address='0x1111111254fb6c44bac0bed2854e76f90643097d', name='AggregationRouterV4', badge=None), to\_address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7', name='TetherToken', badge=None), value=0.0, function\_signature='0x23b872dd', function\_name='transferFrom', arguments=[Argument(name=' from', type='address', value='0xc143790f399351c25a906bb3fb15630828f8e75e'), Argument(name=' to', type='address', value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='\_value', type='uint256', value=940024227336)], outputs=[], gas\_used=43630, error=None, status=True, indent=1, subcalls=[], function\_guessed=False), DecodedCall(chain\_id='mainnet',

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timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1', call_type='call',
from_address=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function_signature='0x2636f7f8', function_name='callBytes',
arguments=[Argument(name='arg_0', type='address',
value='0xc143790f399351c25a906bb3fb15630828f8e75e'), Argument(name='arg_1',
type='bytes', value='0x0000000000')], outputs=[], gas_used=503483, error=None,
status=True, indent=1, subcalls=[DecodedCall(chain_id='mainnet',
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call_id='1_0000', call_type='call',
from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function signature='0xeb5625d9', function name='safeApprove',
arguments=[Argument(name='arg_0', type='address',
value='0xdac17f958d2ee523a2206206994597c13d831ec7'), Argument(name='arg 1',
type='address', value='0xba1222222228d8ba445958a75a0704d566bf2c8'),
Argument(name='arg_2', type='uint256', value=206805330013)], outputs=[],
gas_used=26419, error=None, status=True, indent=2,
subcalls=[DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0000_0000', call_type='call',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), value=0.0, function_signature='0x095ea7b3',
function_name='approve', arguments=[Argument(name='_spender', type='address',
value='0xba1222222228d8ba445958a75a0704d566bf2c8'), Argument(name=' value',
type='uint256', value=206805330013)], outputs=[], gas used=24953, error=None,
status=True, indent=3, subcalls=[], function guessed=False)],
function_guessed=True), DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
\verb|tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816'|,
call_id='1_0001', call_type='call',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xba1222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None), value=0.0, function_signature='0x945bcec9',
function_name='batchSwap', arguments=[Argument(name='kind', type='uint8',
value=0), Argument(name='swaps', type='tuple[]', value=[[Argument(name='arg_1',
type='unknown',
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Argument(name='arg_30', type='unknown',
Argument(name='arg_31', type='unknown',
Argument(name='arg_32', type='unknown',
Argument(name='assets', type='address[]',
```

```
value=['0xdac17f958d2ee523a2206206994597c13d831ec7',
'0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c',
'0x9210f1204b5a24742eba12f710636d76240df3d0',
'0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48']), Argument(name='funds',
type='tuple', value=[Argument(name='sender', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'),
Argument(name='fromInternalBalance', type='bool', value='False'),
Argument(name='recipient', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'),
Argument(name='toInternalBalance', type='bool', value='False')]),
Argument(name='limits', type='int256[]', value=[57896044618658097711785492504343
953926634992332820282019728792003956564819967, 0, 0, -204751351361]),
Argument(name='deadline', type='uint256', value=1665413905)],
outputs=[Argument(name='assetDeltas', type='int256[]', value=[206805330013, 0,
0, -206819546142])], gas_used=285946, error=None, status=True, indent=2,
subcalls=[DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0000', call_type='call',
from address=AddressInfo(address='0xba1222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None),
to address=AddressInfo(address='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c',
name='AaveLinearPool', badge=None), value=0.0, function_signature='0x01ec954a',
function_name='onSwap', arguments=[Argument(name='request', type='tuple',
value=[Argument(name='kind', type='uint8', value=0), Argument(name='tokenIn',
type='address', value='0xdac17f958d2ee523a2206206994597c13d831ec7'),
Argument(name='tokenOut', type='address',
value='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c'), Argument(name='amount',
type='uint256', value=206805330013), Argument(name='poolId', type='bytes32',
value='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c000000000000000000000fd'),
Argument(name='lastChangeBlock', type='uint256', value=15711263),
Argument(name='from', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='to',
type='address', value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'),
Argument(name='userData', type='bytes', value='0x')]), Argument(name='balances',
type='uint256[]', value=[5192296839447818989433937389970455, 6454165457447,
11820181401568]), Argument(name='indexIn', type='uint256', value=1),
Argument(name='indexOut', type='uint256', value=0)], outputs=[Argument(name='',
type='uint256', value=203666116031336081757331)], gas_used=25723, error=None,
status=True, indent=3, subcalls=[DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0000_0000', call_type='staticcall',
from address=AddressInfo(address='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c',
name='AaveLinearPool', badge=None),
to address=AddressInfo(address='0x7d2768de32b0b80b7a3454c06bdac94a69ddc7a9',
name='InitializableImmutableAdminUpgradeabilityProxy', badge=None), value=0.0,
function signature='0xd15e0053', function name='getReserveNormalizedIncome',
```

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arguments=[Argument(name='asset', type='address',
value='0xdac17f958d2ee523a2206206994597c13d831ec7')], outputs=[Argument(name='',
type='uint256', value=1093641539056167633751820766)], gas_used=12856,
error=None, status=True, indent=4, subcalls=[DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0000_0000_0000', call_type='delegatecall',
from_address=AddressInfo(address='0x7d2768de32b0b80b7a3454c06bdac94a69ddc7a9',
name='InitializableImmutableAdminUpgradeabilityProxy', badge=None),
to_address=AddressInfo(address='0xc6845a5c768bf8d7681249f8927877efda425baf',
name='LendingPool', badge=None), value=0.0, function signature='0xd15e0053',
function_name='getReserveNormalizedIncome', arguments=[Argument(name='asset',
type='address', value='0xdac17f958d2ee523a2206206994597c13d831ec7')],
outputs=[Argument(name='', type='uint256', value=1093641539056167633751820766)],
gas_used=7745, error=None, status=True, indent=5, subcalls=[],
function guessed=False)], function guessed=False)], function guessed=False),
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tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0001', call_type='call',
from address=AddressInfo(address='0xba1222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None),
to_address=AddressInfo(address='0x7b50775383d3d6f0215a8f290f2c9e2eebbeceb2',
name='StablePhantomPool', badge=None), value=0.0,
function_signature='0x01ec954a', function_name='onSwap',
arguments=[Argument(name='swapRequest', type='tuple',
value=[Argument(name='kind', type='uint8', value=0), Argument(name='tokenIn',
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Argument(name='tokenOut', type='address',
value='0x9210f1204b5a24742eba12f710636d76240df3d0'), Argument(name='amount',
type='uint256', value=203666116031336081757331), Argument(name='poolId',
type='bytes32',
value='0x7b50775383d3d6f0215a8f290f2c9e2eebbeceb20000000000000000000000fe'),
Argument(name='lastChangeBlock', type='uint256', value=15711263),
Argument(name='from', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='to',
type='address', value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'),
Argument(name='userData', type='bytes', value='0x')]), Argument(name='balances',
type='uint256[]', value=[19086951398764703899584644,
5192296796466977327168910881498791, 21407105879414517191755119,
21741468841235565329823364]), Argument(name='indexIn', type='uint256', value=0),
Argument(name='indexOut', type='uint256', value=3)], outputs=[Argument(name='',
type='uint256', value=204656404650254161241746)], gas_used=68269, error=None,
status=True, indent=3, subcalls=[], function_guessed=False),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0002', call_type='call',
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from_address=AddressInfo(address='0xba12222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None),
to address=AddressInfo(address='0x9210f1204b5a24742eba12f710636d76240df3d0',
name='AaveLinearPool', badge=None), value=0.0, function_signature='0x01ec954a',
function name='onSwap', arguments=[Argument(name='request', type='tuple',
value=[Argument(name='kind', type='uint8', value=0), Argument(name='tokenIn',
type='address', value='0x9210f1204b5a24742eba12f710636d76240df3d0').
Argument(name='tokenOut', type='address',
value='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48'), Argument(name='amount',
type='uint256', value=204656404650254161241746), Argument(name='poolId',
type='bytes32',
value='0x9210f1204b5a24742eba12f710636d76240df3d00000000000000000000000fc'),
Argument(name='lastChangeBlock', type='uint256', value=15711263),
Argument(name='from', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='to',
type='address', value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'),
Argument(name='userData', type='bytes', value='0x')]), Argument(name='balances',
type='uint256[]', value=[5192296836793207384407866826424575, 3105456645935,
17502492955792]), Argument(name='indexIn', type='uint256', value=0),
Argument(name='indexOut', type='uint256', value=1)], outputs=[Argument(name='',
type='uint256', value=206819546142)], gas used=19287, error=None, status=True,
indent=3, subcalls=[DecodedCall(chain id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0002_0000', call_type='staticcall',
from_address=AddressInfo(address='0x9210f1204b5a24742eba12f710636d76240df3d0',
name='AaveLinearPool', badge=None),
to address=AddressInfo(address='0x7d2768de32b0b80b7a3454c06bdac94a69ddc7a9',
name='InitializableImmutableAdminUpgradeabilityProxy', badge=None), value=0.0,
function_signature='0xd15e0053', function_name='getReserveNormalizedIncome',
arguments=[Argument(name='asset', type='address',
value='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48')], outputs=[Argument(name='',
type='uint256', value=1077903209590781548765506574)], gas_used=8356, error=None,
status=True, indent=4, subcalls=[DecodedCall(chain id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call id='1 0001 0002 0000 0000', call type='delegatecall',
from address=AddressInfo(address='0x7d2768de32b0b80b7a3454c06bdac94a69ddc7a9',
name='InitializableImmutableAdminUpgradeabilityProxy', badge=None),
to_address=AddressInfo(address='0xc6845a5c768bf8d7681249f8927877efda425baf',
name='LendingPool', badge=None), value=0.0, function_signature='0xd15e0053',
function_name='getReserveNormalizedIncome', arguments=[Argument(name='asset',
type='address', value='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48')],
outputs=[Argument(name='', type='uint256', value=1077903209590781548765506574)],
gas_used=7745, error=None, status=True, indent=5, subcalls=[],
function guessed=False)], function guessed=False)], function guessed=False),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
```

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tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0003', call_type='call',
from_address=AddressInfo(address='0xba12222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None),
to address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), value=0.0, function_signature='0x23b872dd',
function name='transferFrom', arguments=[Argument(name=' from', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='_to',
type='address', value='0xba1222222228d8ba445958a75a0704d566bf2c8'),
Argument(name='_value', type='uint256', value=206805330013)], outputs=[],
gas_used=12124, error=None, status=True, indent=3, subcalls=[],
function_guessed=False), DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0004', call_type='call',
from_address=AddressInfo(address='0xba12222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None),
to address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function_signature='0xa9059cbb',
function name='transfer', arguments=[Argument(name='to', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='value',
type='uint256', value=206819546142)], outputs=[Argument(name='', type='bool',
value='True')], gas_used=44017, error=None, status=True, indent=3,
subcalls=[DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0004_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='value',
type='uint256', value=206819546142)], outputs=[Argument(name='', type='bool',
value='True')], gas used=36728, error=None, status=True, indent=4, subcalls=[],
function_guessed=False)], function_guessed=False)], function_guessed=False),
DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47).
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002', call_type='call',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function_signature='0xad0e7b1a', function_name='0xad0e7b1a',
```

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17f958d2ee523a2206206994597c13d831ec70000000000000000000000c9f93163c99695c6526
status=True, indent=2, subcalls=[DecodedCall(chain id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0000', call_type='staticcall',
from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), value=0.0, function signature='0x70a08231',
function_name='balanceOf', arguments=[Argument(name='who', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8')], outputs=[Argument(name='',
type='uint256', value=733218897323)], gas_used=1031, error=None, status=True,
indent=3, subcalls=[], function_guessed=False), DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call id='1 0002 0001', call type='call',
from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function_signature='0xeb5625d9', function_name='safeApprove',
arguments=[Argument(name='arg_0', type='address',
value='0xdac17f958d2ee523a2206206994597c13d831ec7'), Argument(name='arg_1',
type='address', value='0xc9f93163c99695c6526b799ebca2207fdf7d61ad'),
Argument(name='arg_2', type='uint256', value=733218897323)], outputs=[],
gas_used=26419, error=None, status=True, indent=3,
subcalls=[DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
```

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call_id='1_0002_0001_0000', call_type='call',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), value=0.0, function signature='0x095ea7b3',
function_name='approve', arguments=[Argument(name='_spender', type='address',
value='0xc9f93163c99695c6526b799ebca2207fdf7d61ad'), Argument(name='_value',
type='uint256', value=733218897323)], outputs=[], gas_used=24953, error=None,
status=True, indent=4, subcalls=[], function guessed=False)],
function_guessed=True), DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002', call_type='call',
from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None), value=0.0, function_signature='0x8dae7333',
function name='sellBaseToken', arguments=[Argument(name='amount',
type='uint256', value=733218897323), Argument(name='minReceiveQuote',
type='uint256', value=725914109474), Argument(name='data', type='bytes',
value='0x')], outputs=[Argument(name='', type='uint256', value=733246575229)],
gas used=108583, error=None, status=True, indent=3,
subcalls=[DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to address=AddressInfo(address='0xf6a8e47daeeddcce297e7541523e27df2f167bf3',
name='DODO', badge=None), value=0.0, function_signature='0x8dae7333',
function_name='sellBaseToken', arguments=[Argument(name='amount',
type='uint256', value=733218897323), Argument(name='minReceiveQuote',
type='uint256', value=725914109474), Argument(name='data', type='bytes',
value='0x')], outputs=[Argument(name='', type='uint256', value=733246575229)],
gas used=105893, error=None, status=True, indent=4,
subcalls=[DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0000', call_type='staticcall',
from address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to address=AddressInfo(address='0xab291a45818bdaa1aaf18e128e134da797d3dc3f',
name='ConstOracle', badge=None), value=0.0, function_signature='0x98d5fdca',
function name='getPrice', arguments=[], outputs=[Argument(name='',
type='uint256', value=100000000000000000)], gas_used=2328, error=None,
status=True, indent=5, subcalls=[], function_guessed=False),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
```

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tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0001', call_type='staticcall',
from_address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to address=AddressInfo(address='0xab291a45818bdaa1aaf18e128e134da797d3dc3f',
name='ConstOracle', badge=None), value=0.0, function_signature='0x98d5fdca',
function name='getPrice', arguments=[], outputs=[Argument(name='',
type='uint256', value=1000000000000000000)], gas_used=328, error=None,
status=True, indent=5, subcalls=[], function guessed=False),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0002', call_type='call',
from_address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function_signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='value',
type='uint256', value=733246575229)], outputs=[Argument(name='', type='bool',
value='True')], gas_used=11617, error=None, status=True, indent=5,
subcalls=[DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0002_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='value',
type='uint256', value=733246575229)], outputs=[Argument(name='', type='bool',
value='True')], gas used=10828, error=None, status=True, indent=6, subcalls=[],
function_guessed=False)], function_guessed=False),
DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0003', call_type='call',
from_address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to_address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), value=0.0, function signature='0x23b872dd',
function_name='transferFrom', arguments=[Argument(name='_from', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='_to',
type='address', value='0xc9f93163c99695c6526b799ebca2207fdf7d61ad'),
Argument(name='_value', type='uint256', value=733218897323)], outputs=[],
gas_used=10124, error=None, status=True, indent=5, subcalls=[],
function_guessed=False), DecodedCall(chain_id='mainnet',
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timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0004', call_type='call',
from address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value='0x95c4f5b83aa70810d4f142d58e5f7242bd891cb0'), Argument(name='value',
type='uint256', value=14665224)], outputs=[Argument(name='', type='bool',
value='True')], gas used=11617, error=None, status=True, indent=5,
subcalls=[DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0004_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0xa9059cbb',
function name='transfer', arguments=[Argument(name='to', type='address',
value='0x95c4f5b83aa70810d4f142d58e5f7242bd891cb0'), Argument(name='value',
type='uint256', value=14665224)], outputs=[Argument(name='', type='bool',
value='True')], gas_used=10828, error=None, status=True, indent=6, subcalls=[],
function_guessed=False)], function_guessed=False)], function_guessed=False)],
function_guessed=False)], function_guessed=False),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0003', call_type='call',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function_signature='0x32ce0a7c', function_name='0x32ce0a7c',
```

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000000000000')], outputs=[], gas_used=6145, error=None, status=True, indent=2,
subcalls=[DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0003_0000', call_type='staticcall',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'.
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function_signature='0x70bdb947', function_name='0x70bdb947',
000000000000000000dae04ea949')], outputs=[Argument(name='output_data',
type='bytes',
gas_used=2284, error=None, status=True, indent=3,
subcalls=[DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0003_0000_0000', call_type='staticcall',
from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function_signature='0x70a08231',
function_name='balanceOf', arguments=[Argument(name='account', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8')], outputs=[Argument(name='',
type='uint256', value=940066121371)], gas_used=1315, error=None, status=True,
indent=4, subcalls=[DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0003_0000_0000_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0x70a08231',
function name='balanceOf', arguments=[Argument(name='account', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8')], outputs=[Argument(name='',
type='uint256', value=940066121371)], gas_used=529, error=None, status=True,
indent=5, subcalls=[], function_guessed=False)], function_guessed=False)],
function_guessed=False), DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0003_0001', call_type='call',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
```

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function_signature='0x05971224', function_name='0x05971224',
00000a0b86991c6218b36c1d19d4a2e9eb0ce3606eb4800000000000000000000000050f788d093
gas used=813, error=None, status=True, indent=3, subcalls=[],
function guessed=False)], function guessed=False),
DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0004', call_type='call',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function_signature='0x14284aab', function_name='0x14284aab',
000000000044a9059cbb00000000000000000000001111111254fb6c44bac0bed2854e76f9064
error=None, status=True, indent=2, subcalls=[DecodedCall(chain id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0004_0000', call_type='staticcall',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function signature='0x70a08231',
function_name='balanceOf', arguments=[Argument(name='account', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8')], outputs=[Argument(name='',
type='uint256', value=940066121371)], gas used=1315, error=None, status=True,
indent=3, subcalls=[DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
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from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0x70a08231',
function_name='balanceOf', arguments=[Argument(name='account', type='address';
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8')], outputs=[Argument(name='',
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type='uint256', value=940066121371)], gas used=529, error=None, status=True,
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from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
name='USDC', badge=None), value=0.0, function_signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value='0x1111111254fb6c44bac0bed2854e76f90643097d'), Argument(name='value',
type='uint256', value=940066121371)], outputs=[Argument(name='', type='bool',
value='True')], gas_used=28717, error=None, status=True, indent=3,
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9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0004_0001_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value='0x1111111254fb6c44bac0bed2854e76f90643097d'), Argument(name='value',
type='uint256', value=940066121371)], outputs=[Argument(name='', type='bool',
value='True')], gas used=27928, error=None, status=True, indent=4, subcalls=[],
function guessed=False)], function guessed=False)], function guessed=False)],
function_guessed=True), DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='2', call_type='staticcall',
from_address=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge=None),
to_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function signature='0x70a08231',
function_name='balanceOf', arguments=[Argument(name='account', type='address',
value='0x1111111254fb6c44bac0bed2854e76f90643097d')], outputs=[Argument(name='',
type='uint256', value=940066121371)], gas_used=1315, error=None, status=True,
indent=1, subcalls=[DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='2_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0x70a08231',
function_name='balanceOf', arguments=[Argument(name='account', type='address';
value='0x1111111254fb6c44bac0bed2854e76f90643097d')], outputs=[Argument(name='',
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type='uint256', value=940066121371)], gas_used=529, error=None, status=True,
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47),
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call id='3', call type='call',
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name='AggregationRouterV4', badge=None),
to address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function_signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value='0xc143790f399351c25a906bb3fb15630828f8e75e'), Argument(name='value',
type='uint256', value=940066121371)], outputs=[Argument(name='', type='bool',
value='True')], gas_used=28717, error=None, status=True, indent=1,
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call_id='3_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0xa9059cbb',
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value='0xc143790f399351c25a906bb3fb15630828f8e75e'), Argument(name='value',
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token_address='0xdac17f958d2ee523a2206206994597c13d831ec7',
token_symbol='TetherToken', token_standard='ERC20', value=9.40024227336e-07), De
codedTransfer(from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7f
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to_address=AddressInfo(address='0xba1222222228d8ba445958a75a0704d566bf2c8',
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token_symbol='TetherToken', token_standard='ERC20', value=2.06805330013e-07), De
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r(from_address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
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name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), token_address='0
xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=733246575229#inventory',
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r(from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
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codedTransfer(from_address=AddressInfo(address='0xc9f93163c99695c6526b799ebca220
7fdf7d61ad', name='DODO', badge=None),
to address=AddressInfo(address='0x95c4f5b83aa70810d4f142d58e5f7242bd891cb0',
name='Proxy', badge=None),
token address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=14665224#inventory',
token_symbol='USDC 14665224', token_standard=None, value=1.0), DecodedTransfer(f
rom_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge=None), token_address='0xa0b86991c6218b36c1d19d
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token standard=None, value=1.0), DecodedTransfer(from address=AddressInfo(addres
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token_symbol='USDC 940066...71', token_standard=None, value=1.0)]
[DecodedBalance(holder=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828
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tokens=[{'token_address': '0xdac17f958d2ee523a2206206994597c13d831ec7',
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bf2c8', name='Vault', badge=None), tokens=[{'token_address':
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'token_standard': 'ERC20', 'balance': 2.06805330013e-07}, {'token_address':
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'token symbol': 'USDC 206819...42', 'token standard': None, 'balance': -1.0}]),
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d61ad', name='D0D0', badge=None), tokens=[{'token address':
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{'token_address': '0xdac17f958d2ee523a2206206994597c13d831ec7', 'token_symbol':
'TetherToken', 'token_standard': 'ERC20', 'balance': 7.33218897323e-07},
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oded Balance (holder=Address Info(address='0x95c4f5b83aa70810d4f142d58e5f7242bd891carrented for the state of the state o
b0', name='Proxy', badge=None), tokens=[{'token_address':
'0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=14665224#inventory',
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timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), index=148, call id=None, event signature='Oxddf
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value='0xc143790f399351c25a906bb3fb15630828f8e75e'), Argument(name='to',
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timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xba1222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None), index=150, call_id=None, event_signature='0x2170c741c
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parameters=[Argument(name='poolId', type='bytes32',
value='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c000000000000000000000fd'),
Argument(name='tokenIn', type='address',
value='0xdac17f958d2ee523a2206206994597c13d831ec7'), Argument(name='tokenOut',
type='address', value='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c'),
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Argument(name='amountOut', type='uint256', value=203666116031336081757331)],
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name='StablePhantomPool', badge=None), index=151, call_id=None, event_signature=
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timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
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name='Vault', badge=None), index=152, call_id=None, event_signature='0x2170c741c
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value='0x7b50775383d3d6f0215a8f290f2c9e2eebbeceb2000000000000000000000fe'),
Argument(name='tokenIn', type='address',
value='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c'), Argument(name='tokenOut',
type='address', value='0x9210f1204b5a24742eba12f710636d76240df3d0'),
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event_guessed=False), DecodedEvent(chain_id='mainnet',
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name='Vault', badge=None), index=153, call_id=None, event_signature='0x2170c741c
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value='0x9210f1204b5a24742eba12f710636d76240df3d00000000000000000000000fc'),
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value='0x9210f1204b5a24742eba12f710636d76240df3d0'), Argument(name='tokenOut',
type='address', value='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48'),
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contract=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), index=154, call_id=None, event_signature='Oxddf
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value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='to',
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tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), index=156, call_id=None, event_signature='0x8c5
be1e5ebec7d5bd14f71427d1e84f3dd0314c0f7b2291e5b200ac8c7c3b925',
event name='Approval', parameters=[Argument(name='owner', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='spender',
type='address', value='0xc9f93163c99695c6526b799ebca2207fdf7d61ad'),
Argument(name='value', type='uint256', value=733218897323)],
event_guessed=False), DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), index=157, call id=None, event signature='0xddf252ad1b
e2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef', event name='Transfer',
parameters=[Argument(name='src', type='address',
value='0xc9f93163c99695c6526b799ebca2207fdf7d61ad'), Argument(name='dst',
type='address', value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'),
Argument(name='value', type='uint256', value=733246575229)],
event_guessed=False), DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), index=158, call_id=None, event_signature='0xddf
252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef',
event_name='Transfer', parameters=[Argument(name='from', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='to',
type='address', value='0xc9f93163c99695c6526b799ebca2207fdf7d61ad'),
Argument(name='value', type='uint256', value=733218897323)],
event_guessed=False), DecodedEvent(chain_id='mainnet',
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), index=159, call_id=None, event_signature='0xddf252ad1b
e2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef', event_name='Transfer',
parameters=[Argument(name='src', type='address',
value='0xc9f93163c99695c6526b799ebca2207fdf7d61ad'), Argument(name='dst',
type='address', value='0x95c4f5b83aa70810d4f142d58e5f7242bd891cb0'),
Argument(name='value', type='uint256', value=14665224)], event_guessed=False),
DecodedEvent(chain_id='mainnet',
```

```
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None), index=160, call_id=None, event_signature='0xe4fed5362e
2669c70e5da5a18942d1e617d8917f6adc0164d9668bd3a6d0cebe',
event_name='ChargeMaintainerFee', parameters=[Argument(name='maintainer',
type='address', value='0x95c4f5b83aa70810d4f142d58e5f7242bd891cb0').
Argument(name='isBaseToken', type='bool', value='False'),
Argument(name='amount', type='uint256', value=14665224)], event guessed=False),
DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None), index=161, call_id=None, event_signature='0xa259c93818
139b6bc90fb80e8feb75122b42edaae49560f81392cf4e1946726e', event_name='Donate',
parameters=[Argument(name='amount', type='uint256', value=0),
Argument(name='isBaseToken', type='bool', value='False')], event_guessed=False),
DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None), index=162, call id=None, event signature='Oxd8648b6ac5
4162763c86fd54bf2005af8ecd2f9cb273a5775921fd7f91e17b2d',
event_name='SellBaseToken', parameters=[Argument(name='seller', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='payBase',
type='uint256', value=733218897323), Argument(name='receiveQuote',
type='uint256', value=733246575229)], event_guessed=False),
DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), index=163, call_id=None, event_signature='0xddf252ad1b
e2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef', event_name='Transfer',
parameters=[Argument(name='src', type='address',
value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'), Argument(name='dst',
type='address', value='0x1111111254fb6c44bac0bed2854e76f90643097d'),
Argument(name='value', type='uint256', value=940066121371)],
event_guessed=False), DecodedEvent(chain_id='mainnet',
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), index=164, call_id=None, event_signature='0xddf252ad1b
e2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef', event_name='Transfer',
parameters=[Argument(name='src', type='address',
value='0x1111111254fb6c44bac0bed2854e76f90643097d'), Argument(name='dst',
type='address', value='0xc143790f399351c25a906bb3fb15630828f8e75e'),
Argument(name='value', type='uint256', value=940066121371)],
event_guessed=False)]
```

```
[]: # decode a single event
    raw_event: Event = transaction.events[0]
    abi_decoded event: DecodedEvent = ethtx.decoders.abi_decoder.decode_event(
        raw_event, block.metadata, transaction.metadata
    # decode a single call
    raw_call: Call = transaction.root_call.subcalls[0]
    abi decoded call: DecodedCall = ethtx.decoders.abi decoder.decode call(
        raw_call, block.metadata, transaction.metadata, proxies
    )
    print(abi_decoded_event)
    print(abi_decoded_call)
    chain id='mainnet'
    tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816'
    timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47)
    contract=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
    name='TetherToken', badge=None) index=148 call_id=None event_signature='0xddf252
    ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef'
    event_name='Transfer' parameters=[Argument(name='from', type='address',
    value='0xc143790f399351c25a906bb3fb15630828f8e75e'), Argument(name='to',
    type='address', value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'),
    Argument(name='value', type='uint256', value=940024227336)] event_guessed=False
    chain_id='mainnet' timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47)
    tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816'
    call id='' call type='call'
    name='AggregationRouterV4', badge=None)
    to address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
    name='TetherToken', badge=None) value=0.0 function signature='0x23b872dd'
    function_name='transferFrom' arguments=[Argument(name='_from', type='address',
    value='0xc143790f399351c25a906bb3fb15630828f8e75e'), Argument(name='_to',
    type='address', value='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8'),
    Argument(name='_value', type='uint256', value=940024227336)] outputs=[]
    gas_used=43630 error=None status=True indent=0 subcalls=[]
    function_guessed=False
[]: from ethtx.models.decoded_model import DecodedTransactionMetadata
    # semantically decode transaction components
    decoded_metadata: DecodedTransactionMetadata = (
        ethtx.decoders.semantic_decoder.decode_metadata(
            block.metadata, transaction.metadata, "mainnet"
    )
```

```
decoded_events: List[DecodedEvent] = ethtx.decoders.semantic_decoder.

decode_events(
    abi_decoded_events, decoded_metadata, proxies
decoded calls: Call = ethtx.decoders.semantic decoder.decode calls(
    abi_decoded_calls, decoded_metadata, proxies
)
decoded_transfers: List[
    DecodedTransfer
] = ethtx.decoders.semantic_decoder.decode_transfers(
    abi_decoded_transfers, decoded_metadata
decoded_balances: List[
    DecodedBalance
] = ethtx.decoders.semantic_decoder.decode_balances(
    abi_decoded_balances, decoded_metadata
print(decoded metadata)
print(decoded events)
print(decoded calls)
print(decoded_transfers)
print(decoded_balances)
chain id='mainnet'
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816'
block number=15711284
block_hash='0xa26f2f370839c3c6871db8bedd1762349334a66aaf9c66841d8bf131f31e0c17'
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47) gas_price=24
from_address=None to_address=None
sender=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender')
receiver=AddressInfo(address='0x1111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver') tx_index=76 tx_value=0
gas_limit=746017 gas_used=538662 success=True
[DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), index=148, call id=None, event signature='Oxddf
252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef',
event_name='Transfer', parameters=[Argument(name='from', type='address',
value=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender')),
Argument(name='to', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
```

```
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='value', type='uint256', value=9.40024227336e-07)],
event_guessed=False), DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), index=149, call id=None, event signature='0x8c5
be1e5ebec7d5bd14f71427d1e84f3dd0314c0f7b2291e5b200ac8c7c3b925',
event_name='Approval', parameters=[Argument(name='owner', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='spender', type='address',
value=AddressInfo(address='0xba1222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None)), Argument(name='value', type='uint256',
value=2.06805330013e-07)], event_guessed=False),
DecodedEvent(chain_id='mainnet',
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xba1222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None), index=150, call id=None, event signature='0x2170c741c
41531aec20e7c107c24eecfdd15e69c9bb0a8dd37b1840b9e0b207b', event name='Swap',
parameters=[Argument(name='poolId', type='bytes32',
value='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c000000000000000000000fd'),
Argument(name='tokenIn', type='address',
value=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None)), Argument(name='tokenOut', type='address',
value=AddressInfo(address='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c',
name='AaveLinearPool', badge=None)), Argument(name='amountIn', type='uint256',
value=206805330013), Argument(name='amountOut', type='uint256',
value=203666116031336081757331)], event_guessed=False),
DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0x7b50775383d3d6f0215a8f290f2c9e2eebbeceb2',
name='StablePhantomPool', badge=None), index=151, call id=None, event signature=
'0x1d2422d87bc31f46211cfdfe158c5eccb86547546c7a4fff6be15a0a944c84b2',
event name='DueProtocolFeeIncreased', parameters=[Argument(name='bptAmount',
type='uint256', value=1018750470343243455)], event_guessed=False),
DecodedEvent(chain_id='mainnet',
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xba12222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None), index=152, call_id=None, event_signature='0x2170c741c
41531aec20e7c107c24eecfdd15e69c9bb0a8dd37b1840b9e0b207b', event_name='Swap',
parameters=[Argument(name='poolId', type='bytes32',
value='0x7b50775383d3d6f0215a8f290f2c9e2eebbeceb20000000000000000000000fe'),
Argument(name='tokenIn', type='address',
value=AddressInfo(address='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c',
```

```
name='AaveLinearPool', badge=None)), Argument(name='tokenOut', type='address',
value=AddressInfo(address='0x9210f1204b5a24742eba12f710636d76240df3d0',
name='AaveLinearPool', badge=None)), Argument(name='amountIn', type='uint256',
value=203666116031336081757331), Argument(name='amountOut', type='uint256',
value=204656404650254161241746)], event guessed=False),
DecodedEvent(chain id='mainnet',
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816'.
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xba1222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None), index=153, call_id=None, event_signature='0x2170c741c
41531aec20e7c107c24eecfdd15e69c9bb0a8dd37b1840b9e0b207b', event_name='Swap',
parameters=[Argument(name='poolId', type='bytes32',
value='0x9210f1204b5a24742eba12f710636d76240df3d00000000000000000000000fc'),
Argument(name='tokenIn', type='address',
value=AddressInfo(address='0x9210f1204b5a24742eba12f710636d76240df3d0',
name='AaveLinearPool', badge=None)), Argument(name='tokenOut', type='address',
value=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None)), Argument(name='amountIn', type='uint256',
value=204656404650254161241746), Argument(name='amountOut', type='uint256',
value=206819546142)], event guessed=False), DecodedEvent(chain id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), index=154, call_id=None, event_signature='Oxddf
252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef',
event_name='Transfer', parameters=[Argument(name='from', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='to', type='address',
value=AddressInfo(address='0xba1222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None)), Argument(name='value', type='uint256',
value=2.06805330013e-07)], event_guessed=False),
DecodedEvent(chain_id='mainnet',
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), index=155, call id=None, event signature='0xddf252ad1b
e2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef', event_name='Transfer',
parameters=[Argument(name='src', type='address',
value=AddressInfo(address='0xba12222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None)), Argument(name='dst', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='value', type='uint256', value=206819.546142)],
event_guessed=False), DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
```

```
name='TetherToken', badge=None), index=156, call_id=None, event_signature='0x8c5
be1e5ebec7d5bd14f71427d1e84f3dd0314c0f7b2291e5b200ac8c7c3b925',
event name='Approval', parameters=[Argument(name='owner', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='spender', type='address',
value=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None)), Argument(name='value', type='uint256',
value=7.33218897323e-07)], event guessed=False),
DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), index=157, call_id=None, event_signature='0xddf252ad1b
e2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef', event_name='Transfer',
parameters=[Argument(name='src', type='address',
value=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None)), Argument(name='dst', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='value', type='uint256', value=733246.575229)],
event guessed=False), DecodedEvent(chain id='mainnet',
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), index=158, call_id=None, event_signature='0xddf
252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef',
event_name='Transfer', parameters=[Argument(name='from', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='to', type='address',
value=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None)), Argument(name='value', type='uint256',
value=7.33218897323e-07)], event_guessed=False),
DecodedEvent(chain id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), index=159, call_id=None, event_signature='0xddf252ad1b
e2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef', event_name='Transfer',
parameters=[Argument(name='src', type='address',
value=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None)), Argument(name='dst', type='address',
value=AddressInfo(address='0x95c4f5b83aa70810d4f142d58e5f7242bd891cb0',
name='Proxy', badge=None)), Argument(name='value', type='uint256',
value=14.665224)], event_guessed=False), DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
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contract=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None), index=160, call_id=None, event_signature='0xe4fed5362e
2669c70e5da5a18942d1e617d8917f6adc0164d9668bd3a6d0cebe',
event_name='ChargeMaintainerFee', parameters=[Argument(name='maintainer',
type='address',
value=AddressInfo(address='0x95c4f5b83aa70810d4f142d58e5f7242bd891cb0',
name='Proxy', badge=None)), Argument(name='isBaseToken', type='bool',
value='False'), Argument(name='amount', type='uint256', value=14665224)],
event guessed=False), DecodedEvent(chain id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None), index=161, call_id=None, event_signature='0xa259c93818
139b6bc90fb80e8feb75122b42edaae49560f81392cf4e1946726e', event_name='Donate',
parameters=[Argument(name='amount', type='uint256', value=0),
Argument(name='isBaseToken', type='bool', value='False')], event guessed=False),
DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None), index=162, call id=None, event signature='0xd8648b6ac5
4162763c86fd54bf2005af8ecd2f9cb273a5775921fd7f91e17b2d',
event_name='SellBaseToken', parameters=[Argument(name='seller', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='payBase', type='uint256', value=733218897323),
Argument(name='receiveQuote', type='uint256', value=733246575229)],
event_guessed=False), DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), index=163, call_id=None, event_signature='0xddf252ad1b
e2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef', event_name='Transfer',
parameters=[Argument(name='src', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='dst', type='address',
value=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver')), Argument(name='value',
type='uint256', value=940066.121371)], event_guessed=False),
DecodedEvent(chain_id='mainnet',
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
contract=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), index=164, call_id=None, event_signature='0xddf252ad1b
e2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef', event_name='Transfer',
parameters=[Argument(name='src', type='address',
value=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
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name='AggregationRouterV4', badge='receiver')), Argument(name='dst',
type='address',
value=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender')),
Argument(name='value', type='uint256', value=940066.121371)],
event guessed=False)]
chain id='mainnet' timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47)
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816'
call id='' call type='call'
from_address=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender')
to address=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver') value=0.0
function_signature='0x7c025200' function_name='swap'
arguments=[Argument(name='caller', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='desc', type='tuple', value=[Argument(name='srcToken',
type='address',
value=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None)), Argument(name='dstToken', type='address',
value=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None)), Argument(name='srcReceiver', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='dstReceiver', type='address',
value=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender')),
Argument(name='amount', type='uint256', value=940024227336),
Argument(name='minReturnAmount', type='uint256', value=939126055934),
Argument(name='flags', type='uint256', value=4), Argument(name='permit',
type='bytes', value='0x')]), Argument(name='data', type='bytes',
outputs=[Argument(name='returnAmount', type='uint256', value=940066121371),
Argument(name='spentAmount', type='uint256', value=940024227336),
Argument(name='gasLeft', type='uint256', value=97610)] gas_used=599202
error=None status=True indent=0 subcalls=[DecodedCall(chain id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='0', call_type='call',
from_address=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver'),
to address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), value=0.0, function_signature='0x23b872dd',
function_name='transferFrom', arguments=[Argument(name='_from', type='address',
value=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender')),
Argument(name='_to', type='address',
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value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='_value', type='uint256', value=9.40024227336e-07)], outputs=[],
gas_used=43630, error=None, status=True, indent=1, subcalls=[],
function guessed=False), DecodedCall(chain id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1', call_type='call',
from address=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver'),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function_signature='0x2636f7f8', function_name='callBytes',
arguments=[Argument(name='arg_0', type='address',
value=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender')),
Argument(name='arg_1', type='bytes', value='0x0000000000')], outputs=[],
gas_used=503483, error=None, status=True, indent=1,
subcalls=[DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call id='1 0000', call type='call',
from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function_signature='0xeb5625d9', function_name='safeApprove',
arguments=[Argument(name='arg_0', type='address',
value=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None)), Argument(name='arg_1', type='address',
value=AddressInfo(address='0xba1222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None)), Argument(name='arg_2', type='uint256',
value=206805330013)], outputs=[], gas_used=26419, error=None, status=True,
indent=2, subcalls=[DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call id='1 0000 0000', call type='call',
from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to_address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), value=0.0, function_signature='0x095ea7b3',
function_name='approve', arguments=[Argument(name='_spender', type='address',
value=AddressInfo(address='0xba1222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None)), Argument(name='_value', type='uint256',
value=2.06805330013e-07)], outputs=[], gas_used=24953, error=None, status=True,
indent=3, subcalls=[], function guessed=False)], function guessed=True),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
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tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001', call_type='call',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
name='Vault', badge=None), value=0.0, function_signature='0x945bcec9',
function_name='batchSwap', arguments=[Argument(name='kind', type='uint8',
value=0), Argument(name='swaps', type='tuple[]', value=[[Argument(name='arg_1',
type='unknown',
Argument(name='arg_2', type='unknown',
Argument(name='arg_3', type='unknown',
Argument(name='arg_4', type='unknown',
Argument(name='arg_5', type='unknown',
Argument(name='arg_6', type='unknown',
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Argument(name='arg_23', type='unknown',
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Argument(name='arg_25', type='unknown',
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Argument(name='arg_10', type='unknown',
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Argument(name='arg_12', type='unknown',
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Argument(name='arg_13', type='unknown',
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Argument(name='arg_5', type='unknown',
Argument(name='arg_6', type='unknown',
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Argument(name='arg_9', type='unknown',
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Argument(name='arg_25', type='unknown',
Argument(name='arg_26', type='unknown',
Argument(name='arg_27', type='unknown',
Argument(name='arg_28', type='unknown',
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Argument(name='arg_29', type='unknown',
Argument(name='arg_30', type='unknown',
Argument(name='arg 31', type='unknown',
Argument(name='arg 32', type='unknown',
Argument(name='assets', type='address[]',
value=['0xdac17f958d2ee523a2206206994597c13d831ec7',
'0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c',
'0x9210f1204b5a24742eba12f710636d76240df3d0',
'0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48']), Argument(name='funds',
type='tuple', value=[Argument(name='sender', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='fromInternalBalance', type='bool', value='False'),
Argument(name='recipient', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='toInternalBalance', type='bool', value='False')]),
Argument(name='limits', type='int256[]', value=[57896044618658097711785492504343
953926634992332820282019728792003956564819967, 0, 0, -204751351361]),
Argument(name='deadline', type='uint256', value=1665413905)],
outputs=[Argument(name='assetDeltas', type='int256[]', value=[206805330013, 0,
0, -206819546142])], gas_used=285946, error=None, status=True, indent=2,
subcalls=[DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0000', call_type='call',
from_address=AddressInfo(address='0xba12222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None),
to address=AddressInfo(address='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c',
name='AaveLinearPool', badge=None), value=0.0, function_signature='0x01ec954a',
function name='onSwap', arguments=[Argument(name='request', type='tuple',
value=[Argument(name='kind', type='uint8', value=0), Argument(name='tokenIn',
type='address',
value=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None)), Argument(name='tokenOut', type='address',
value=AddressInfo(address='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c',
name='AaveLinearPool', badge=None)), Argument(name='amount', type='uint256',
value=206805330013), Argument(name='poolId', type='bytes32',
value='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c0000000000000000000000fd'),
Argument(name='lastChangeBlock', type='uint256', value=15711263),
Argument(name='from', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='to', type='address',
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value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='userData', type='bytes', value='0x')]), Argument(name='balances',
type='uint256[]', value=[5192296839447818989433937389970455, 6454165457447,
11820181401568]), Argument(name='indexIn', type='uint256', value=1),
Argument(name='indexOut', type='uint256', value=0)], outputs=[Argument(name='',
type='uint256', value=203666116031336081757331)], gas_used=25723, error=None,
status=True, indent=3, subcalls=[DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0000_0000', call_type='staticcall',
from_address=AddressInfo(address='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c',
name='AaveLinearPool', badge=None),
to_address=AddressInfo(address='0x7d2768de32b0b80b7a3454c06bdac94a69ddc7a9',
name='InitializableImmutableAdminUpgradeabilityProxy', badge=None), value=0.0,
function signature='0xd15e0053', function name='getReserveNormalizedIncome',
arguments=[Argument(name='asset', type='address',
value=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None))], outputs=[Argument(name='', type='uint256',
value=1093641539056167633751820766)], gas used=12856, error=None, status=True,
indent=4, subcalls=[DecodedCall(chain id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0000_0000_0000', call_type='delegatecall',
from_address=AddressInfo(address='0x7d2768de32b0b80b7a3454c06bdac94a69ddc7a9',
name='InitializableImmutableAdminUpgradeabilityProxy', badge=None),
to address=AddressInfo(address='0xc6845a5c768bf8d7681249f8927877efda425baf',
name='LendingPool', badge=None), value=0.0, function_signature='0xd15e0053',
function_name='getReserveNormalizedIncome', arguments=[Argument(name='asset',
type='address',
value=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None))], outputs=[Argument(name='', type='uint256',
value=1093641539056167633751820766)], gas_used=7745, error=None, status=True,
indent=5, subcalls=[], function_guessed=False)], function_guessed=False)],
function guessed=False), DecodedCall(chain id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0001', call_type='call',
from_address=AddressInfo(address='0xba12222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None),
to_address=AddressInfo(address='0x7b50775383d3d6f0215a8f290f2c9e2eebbeceb2',
name='StablePhantomPool', badge=None), value=0.0,
function_signature='0x01ec954a', function_name='onSwap',
arguments=[Argument(name='swapRequest', type='tuple',
value=[Argument(name='kind', type='uint8', value=0), Argument(name='tokenIn',
type='address',
value=AddressInfo(address='0x2bbf681cc4eb09218bee85ea2a5d3d13fa40fc0c',
name='AaveLinearPool', badge=None)), Argument(name='tokenOut', type='address',
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value=AddressInfo(address='0x9210f1204b5a24742eba12f710636d76240df3d0',
name='AaveLinearPool', badge=None)), Argument(name='amount', type='uint256',
value=203666116031336081757331), Argument(name='poolId', type='bytes32',
Argument(name='lastChangeBlock', type='uint256', value=15711263),
Argument(name='from', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='to', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='userData', type='bytes', value='0x')]), Argument(name='balances',
type='uint256[]', value=[19086951398764703899584644,
5192296796466977327168910881498791, 21407105879414517191755119,
21741468841235565329823364]), Argument(name='indexIn', type='uint256', value=0),
Argument(name='indexOut', type='uint256', value=3)], outputs=[Argument(name='',
type='uint256', value=204656404650254161241746)], gas_used=68269, error=None,
status=True, indent=3, subcalls=[], function_guessed=False),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47).
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0002', call_type='call',
from_address=AddressInfo(address='0xba12222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None),
to_address=AddressInfo(address='0x9210f1204b5a24742eba12f710636d76240df3d0',
name='AaveLinearPool', badge=None), value=0.0, function signature='0x01ec954a',
function_name='onSwap', arguments=[Argument(name='request', type='tuple',
value=[Argument(name='kind', type='uint8', value=0), Argument(name='tokenIn',
type='address',
value=AddressInfo(address='0x9210f1204b5a24742eba12f710636d76240df3d0',
name='AaveLinearPool', badge=None)), Argument(name='tokenOut', type='address',
value=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None)), Argument(name='amount', type='uint256',
value=204656404650254161241746), Argument(name='poolId', type='bytes32',
value='0x9210f1204b5a24742eba12f710636d76240df3d00000000000000000000000fc'),
Argument(name='lastChangeBlock', type='uint256', value=15711263),
Argument(name='from', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='to', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='userData', type='bytes', value='0x')]), Argument(name='balances',
type='uint256[]', value=[5192296836793207384407866826424575, 3105456645935,
17502492955792]), Argument(name='indexIn', type='uint256', value=0),
Argument(name='indexOut', type='uint256', value=1)], outputs=[Argument(name='',
type='uint256', value=206819546142)], gas_used=19287, error=None, status=True,
indent=3, subcalls=[DecodedCall(chain_id='mainnet',
```

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timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0002_0000', call_type='staticcall',
from address=AddressInfo(address='0x9210f1204b5a24742eba12f710636d76240df3d0',
name='AaveLinearPool', badge=None),
to address=AddressInfo(address='0x7d2768de32b0b80b7a3454c06bdac94a69ddc7a9',
name='InitializableImmutableAdminUpgradeabilityProxy', badge=None), value=0.0,
function_signature='0xd15e0053', function_name='getReserveNormalizedIncome',
arguments=[Argument(name='asset', type='address',
value=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None))], outputs=[Argument(name='', type='uint256',
value=1077903209590781548765506574)], gas_used=8356, error=None, status=True,
indent=4, subcalls=[DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0002_0000_0000', call_type='delegatecall',
from_address=AddressInfo(address='0x7d2768de32b0b80b7a3454c06bdac94a69ddc7a9',
name='InitializableImmutableAdminUpgradeabilityProxy', badge=None),
to_address=AddressInfo(address='0xc6845a5c768bf8d7681249f8927877efda425baf',
name='LendingPool', badge=None), value=0.0, function signature='0xd15e0053',
function_name='getReserveNormalizedIncome', arguments=[Argument(name='asset',
type='address',
value=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None))], outputs=[Argument(name='', type='uint256',
value=1077903209590781548765506574)], gas_used=7745, error=None, status=True,
indent=5, subcalls=[], function guessed=False)], function guessed=False)],
function_guessed=False), DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0003', call_type='call',
from_address=AddressInfo(address='0xba12222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None),
to address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), value=0.0, function_signature='0x23b872dd',
function name='transferFrom', arguments=[Argument(name=' from', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='_to', type='address',
value=AddressInfo(address='0xba1222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None)), Argument(name='_value', type='uint256',
value=2.06805330013e-07)], outputs=[], gas_used=12124, error=None, status=True,
indent=3, subcalls=[], function_guessed=False), DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0004', call_type='call',
from_address=AddressInfo(address='0xba12222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None),
to address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
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name='USDC', badge=None), value=0.0, function_signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='value', type='uint256', value=206819546142)],
outputs=[Argument(name='', type='bool', value='True')], gas_used=44017,
error=None, status=True, indent=3, subcalls=[DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0001_0004_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='value', type='uint256', value=2.06819546142e-07)],
outputs=[Argument(name='', type='bool', value='True')], gas_used=36728,
error=None, status=True, indent=4, subcalls=[], function guessed=False)],
function guessed=False)], function guessed=False),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47).
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002', call_type='call',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function_signature='0xad0e7b1a', function_name='0xad0e7b1a',
arguments=[Argument(name='call_data', type='bytes',
outputs=[], gas_used=144254, error=None, status=True, indent=2,
subcalls=[DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call id='1 0002 0000', call type='staticcall',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to_address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), value=0.0, function_signature='0x70a08231',
function name='balanceOf', arguments=[Argument(name='who', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None))],
outputs=[Argument(name='', type='uint256', value=7.33218897323e-07)],
gas_used=1031, error=None, status=True, indent=3, subcalls=[],
function_guessed=False), DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
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tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0001', call_type='call',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function signature='0xeb5625d9', function name='safeApprove',
arguments=[Argument(name='arg_0', type='address',
value=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None)), Argument(name='arg_1', type='address',
value=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None)), Argument(name='arg_2', type='uint256',
value=733218897323)], outputs=[], gas_used=26419, error=None, status=True,
indent=3, subcalls=[DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0001_0000', call_type='call',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), value=0.0, function_signature='0x095ea7b3',
function_name='approve', arguments=[Argument(name='_spender', type='address',
value=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None)), Argument(name='_value', type='uint256',
value=7.33218897323e-07)], outputs=[], gas_used=24953, error=None, status=True,
indent=4, subcalls=[], function_guessed=False)], function_guessed=True),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002', call_type='call',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None), value=0.0, function_signature='0x8dae7333',
function name='sellBaseToken', arguments=[Argument(name='amount',
type='uint256', value=733218897323), Argument(name='minReceiveQuote',
type='uint256', value=725914109474), Argument(name='data', type='bytes',
value='0x')], outputs=[Argument(name='', type='uint256', value=733246575229)],
gas_used=108583, error=None, status=True, indent=3,
subcalls=[DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to address=AddressInfo(address='0xf6a8e47daeeddcce297e7541523e27df2f167bf3',
name='DODO', badge=None), value=0.0, function_signature='0x8dae7333',
function name='sellBaseToken', arguments=[Argument(name='amount',
```

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type='uint256', value=733218897323), Argument(name='minReceiveQuote',
type='uint256', value=725914109474), Argument(name='data', type='bytes',
value='0x')], outputs=[Argument(name='', type='uint256', value=733246575229)],
gas_used=105893, error=None, status=True, indent=4,
subcalls=[DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0000', call_type='staticcall',
from address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to address=AddressInfo(address='0xab291a45818bdaa1aaf18e128e134da797d3dc3f',
name='ConstOracle', badge=None), value=0.0, function_signature='0x98d5fdca',
function_name='getPrice', arguments=[], outputs=[Argument(name='',
type='uint256', value=1000000000000000000)], gas_used=2328, error=None,
status=True, indent=5, subcalls=[], function_guessed=False),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0001', call_type='staticcall',
from address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to address=AddressInfo(address='0xab291a45818bdaa1aaf18e128e134da797d3dc3f',
name='ConstOracle', badge=None), value=0.0, function_signature='0x98d5fdca',
function_name='getPrice', arguments=[], outputs=[Argument(name='',
type='uint256', value=1000000000000000000)], gas_used=328, error=None,
status=True, indent=5, subcalls=[], function_guessed=False),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0002', call_type='call',
from_address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function_signature='0xa9059cbb',
function name='transfer', arguments=[Argument(name='to', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='value', type='uint256', value=733246575229)],
outputs=[Argument(name='', type='bool', value='True')], gas_used=11617,
error=None, status=True, indent=5, subcalls=[DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0002_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0xa9059cbb',
function name='transfer', arguments=[Argument(name='to', type='address',
```

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value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='value', type='uint256', value=7.33246575229e-07)],
outputs=[Argument(name='', type='bool', value='True')], gas_used=10828,
error=None, status=True, indent=6, subcalls=[], function guessed=False)],
function guessed=False), DecodedCall(chain id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0003', call_type='call',
from address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None), value=0.0, function_signature='0x23b872dd',
function_name='transferFrom', arguments=[Argument(name='_from', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='_to', type='address',
value=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None)), Argument(name='_value', type='uint256',
value=7.33218897323e-07)], outputs=[], gas used=10124, error=None, status=True,
indent=5, subcalls=[], function guessed=False), DecodedCall(chain id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0002_0002_0000_0004', call_type='call',
from_address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function_signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value=AddressInfo(address='0x95c4f5b83aa70810d4f142d58e5f7242bd891cb0',
name='Proxy', badge=None)), Argument(name='value', type='uint256',
value=14665224)], outputs=[Argument(name='', type='bool', value='True')],
gas_used=11617, error=None, status=True, indent=5,
subcalls=[DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call id='1 0002 0002 0000 0004 0000', call type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to_address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0xa9059cbb',
function name='transfer', arguments=[Argument(name='to', type='address',
value=AddressInfo(address='0x95c4f5b83aa70810d4f142d58e5f7242bd891cb0',
name='Proxy', badge=None)), Argument(name='value', type='uint256',
value=1.4665224e-11)], outputs=[Argument(name='', type='bool', value='True')],
gas_used=10828, error=None, status=True, indent=6, subcalls=[],
function_guessed=False)], function_guessed=False)], function_guessed=False)],
function_guessed=False)], function_guessed=False),
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DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0003', call_type='call',
from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function signature='0x32ce0a7c', function name='0x32ce0a7c',
arguments=[Argument(name='call_data', type='bytes',
outputs=[], gas_used=6145, error=None, status=True, indent=2,
subcalls=[DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0003_0000', call_type='staticcall',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function signature='0x70bdb947', function name='0x70bdb947',
arguments=[Argument(name='call data', type='bytes',
outputs=[Argument(name='output_data', type='bytes',
gas_used=2284, error=None, status=True, indent=3,
subcalls=[DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0003_0000_0000', call_type='staticcall',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function_signature='0x70a08231',
function name='balanceOf', arguments=[Argument(name='account', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None))],
outputs=[Argument(name='', type='uint256', value=940066121371)], gas_used=1315,
error=None, status=True, indent=4, subcalls=[DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0003_0000_0000_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0x70a08231',
function_name='balanceOf', arguments=[Argument(name='account', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
```

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name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None))],
outputs=[Argument(name='', type='uint256', value=9.40066121371e-07)],
gas_used=529, error=None, status=True, indent=5, subcalls=[],
function_guessed=False)], function_guessed=False)], function_guessed=False),
DecodedCall(chain id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0003_0001', call_type='call',
from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function_signature='0x05971224', function_name='0x05971224',
arguments=[Argument(name='call data', type='bytes',
outputs=[], gas_used=813, error=None, status=True, indent=3, subcalls=[],
function_guessed=False)], function_guessed=False),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0004', call_type='call',
from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), value=0.0,
function_signature='0x14284aab', function_name='0x14284aab',
arguments=[Argument(name='call_data', type='bytes',
outputs=[], gas_used=32829, error=None, status=True, indent=2,
subcalls=[DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0004_0000', call_type='staticcall',
from address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function signature='0x70a08231',
function_name='balanceOf', arguments=[Argument(name='account', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None))],
outputs=[Argument(name='', type='uint256', value=940066121371)], gas_used=1315,
error=None, status=True, indent=3, subcalls=[DecodedCall(chain id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0004_0000_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
```

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name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0x70a08231',
function_name='balanceOf', arguments=[Argument(name='account', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None))],
outputs=[Argument(name='', type='uint256', value=9.40066121371e-07)],
gas_used=529, error=None, status=True, indent=4, subcalls=[],
function guessed=False)], function guessed=False),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0004_0001', call_type='call',
from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function_signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver')), Argument(name='value',
type='uint256', value=940066121371)], outputs=[Argument(name='', type='bool',
value='True')], gas used=28717, error=None, status=True, indent=3,
subcalls=[DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10,
9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='1_0004_0001_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver')), Argument(name='value',
type='uint256', value=9.40066121371e-07)], outputs=[Argument(name='',
type='bool', value='True')], gas_used=27928, error=None, status=True, indent=4,
subcalls=[], function_guessed=False)], function_guessed=False)],
function guessed=False)], function guessed=True),
DecodedCall(chain_id='mainnet', timestamp=datetime.datetime(2022, 10, 9, 14, 58,
47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='2', call_type='staticcall',
name='AggregationRouterV4', badge='receiver'),
to address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function_signature='0x70a08231',
function_name='balanceOf', arguments=[Argument(name='account', type='address',
value=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver'))], outputs=[Argument(name='',
type='uint256', value=940066121371)], gas_used=1315, error=None, status=True,
indent=1, subcalls=[DecodedCall(chain_id='mainnet',
```

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timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx_hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='2_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2 1', badge=None), value=0.0, function signature='0x70a08231',
function_name='balanceOf', arguments=[Argument(name='account', type='address',
value=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver'))], outputs=[Argument(name='',
type='uint256', value=9.40066121371e-07)], gas used=529, error=None,
status=True, indent=2, subcalls=[], function_guessed=False)],
function_guessed=False), DecodedCall(chain_id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='3', call_type='call',
from_address=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver'),
to_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None), value=0.0, function signature='0xa9059cbb',
function name='transfer', arguments=[Argument(name='to', type='address',
value=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender')),
Argument(name='value', type='uint256', value=940066121371)],
outputs=[Argument(name='', type='bool', value='True')], gas_used=28717,
error=None, status=True, indent=1, subcalls=[DecodedCall(chain id='mainnet',
timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47),
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816',
call_id='3_0000', call_type='delegatecall',
from_address=AddressInfo(address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48',
name='USDC', badge=None),
to address=AddressInfo(address='0xa2327a938febf5fec13bacfb16ae10ecbc4cbdcf',
name='FiatTokenV2_1', badge=None), value=0.0, function_signature='0xa9059cbb',
function_name='transfer', arguments=[Argument(name='to', type='address',
value=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender')),
Argument(name='value', type='uint256', value=9.40066121371e-07)],
outputs=[Argument(name='', type='bool', value='True')], gas_used=27928,
error=None, status=True, indent=2, subcalls=[], function_guessed=False)],
function_guessed=False)] function_guessed=False
[DecodedTransfer(from_address=AddressInfo(address='0xc143790f399351c25a906bb3fb1
5630828f8e75e', name='0xc143790f399351c25a906bb3fb15630828f8e75e',
badge='sender'),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
token_address='0xdac17f958d2ee523a2206206994597c13d831ec7',
token_symbol='TetherToken', token_standard='ERC20', value=9.40024227336e-07), De
codedTransfer(from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7f
```

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cde2b1b8a8', name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to_address=AddressInfo(address='0xba12222222228d8ba445958a75a0704d566bf2c8',
name='Vault', badge=None),
token_address='0xdac17f958d2ee523a2206206994597c13d831ec7',
token symbol='TetherToken', token standard='ERC20', value=2.06805330013e-07), De
codedTransfer(from_address=AddressInfo(address='0xba1222222228d8ba445958a75a070
4d566bf2c8', name='Vault', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), token_address='0
xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=206819546142#inventory',
token_symbol='USDC 206819...42', token_standard=None, value=1.0), DecodedTransfe
r(from_address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
to address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None), token_address='0
xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=733246575229#inventory',
token_symbol='USDC 733246...29', token_standard=None, value=1.0), DecodedTransfe
r(from_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to address=AddressInfo(address='0xc9f93163c99695c6526b799ebca2207fdf7d61ad',
name='DODO', badge=None),
token address='0xdac17f958d2ee523a2206206994597c13d831ec7',
token_symbol='TetherToken', token_standard='ERC20', value=7.33218897323e-07), De
codedTransfer(from_address=AddressInfo(address='0xc9f93163c99695c6526b799ebca220
7fdf7d61ad', name='DODO', badge=None),
to address=AddressInfo(address='0x95c4f5b83aa70810d4f142d58e5f7242bd891cb0',
name='Proxy', badge=None),
token_address='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=14665224#inventory',
token_symbol='USDC 14665224', token_standard=None, value=1.0), DecodedTransfer(f
rom_address=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None),
to_address=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver'), token_address='0xa0b86991c6218b36
c1d19d4a2e9eb0ce3606eb48?a=940066121371#inventory', token_symbol='USDC
940066...71', token standard=None, value=1.0), DecodedTransfer(from address=Addr
essInfo(address='0x1111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver'),
to address=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender'), token_addres
s='0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=940066121371#inventory',
token_symbol='USDC 940066...71', token_standard=None, value=1.0)]
[DecodedBalance(holder=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828
f8e75e', name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender'),
tokens=[{'token address': '0xdac17f958d2ee523a2206206994597c13d831ec7',
'token_symbol': 'TetherToken', 'token_standard': 'ERC20', 'balance': '-0.0000'},
{'token address':
'0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=940066121371#inventory',
'token symbol': 'USDC 940066...71', 'token standard': None, 'balance':
```

```
3af0bc7fcde2b1b8a8', name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
    badge=None), tokens=[{'token_address':
    '0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=206819546142#inventory',
    'token symbol': 'USDC 206819...42', 'token standard': None, 'balance':
    '1.0000'}, {'token address':
    '0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=733246575229#inventory',
    'token_symbol': 'USDC 733246...29', 'token_standard': None, 'balance':
    '1.0000'}, {'token address':
    '0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=940066121371#inventory',
    'token symbol': 'USDC 940066...71', 'token standard': None, 'balance':
    '-1.0000'}]), DecodedBalance(holder=AddressInfo(address='0xba1222222228d8ba4459
    58a75a0704d566bf2c8', name='Vault', badge=None), tokens=[{'token_address':
    '0xdac17f958d2ee523a2206206994597c13d831ec7', 'token symbol': 'TetherToken',
    'token_standard': 'ERC20', 'balance': '0.0000'}, {'token_address':
    '0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=206819546142#inventory',
    'token_symbol': 'USDC 206819...42', 'token_standard': None, 'balance':
    '-1.0000'}]), DecodedBalance(holder=AddressInfo(address='0xc9f93163c99695c6526b7
    99ebca2207fdf7d61ad', name='DODO', badge=None), tokens=[{'token_address':
    '0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=733246575229#inventory',
    'token_symbol': 'USDC 733246...29', 'token_standard': None, 'balance':
    '-1.0000'}, {'token_address': '0xdac17f958d2ee523a2206206994597c13d831ec7',
    'token_symbol': 'TetherToken', 'token_standard': 'ERC20', 'balance': '0.0000'},
    {'token_address':
    '0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=14665224#inventory',
    'token_symbol': 'USDC 14665224', 'token_standard': None, 'balance':
    '-1.0000'}]), DecodedBalance(holder=AddressInfo(address='0x95c4f5b83aa70810d4f14
    2d58e5f7242bd891cb0', name='Proxy', badge=None), tokens=[{'token_address':
    '0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48?a=14665224#inventory',
    'token_symbol': 'USDC 14665224', 'token_standard': None, 'balance': '1.0000'}])]
[]: # semantically decode a single event
     decoded event: DecodedEvent = ethtx.decoders.semantic decoder.decode event(
         abi_decoded_events[0], decoded_metadata, proxies
     # semantically decode a single call
     decoded_call: Call = ethtx.decoders.semantic_decoder.decode_call(
         abi_decoded_calls.subcalls[0], decoded_metadata, proxies
     )
     print(decoded_event)
     print(decoded_call)
    chain_id='mainnet'
    tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816'
    timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47)
    contract=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
    name='TetherToken', badge=None) index=148 call_id=None event_signature='0xddf252
```

'1.0000'}]), DecodedBalance(holder=AddressInfo(address='0xf2f400c138f9fb90057626

```
ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef'
event_name='Transfer' parameters=[Argument(name='from', type='address',
value=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender')),
Argument(name='to', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='value', type='uint256', value=9.40024227336e-25)]
event guessed=False
chain_id='mainnet' timestamp=datetime.datetime(2022, 10, 9, 14, 58, 47)
tx hash='0x1594180567438ad258c98e263b412f55f62a23ebb5e9056089e9f11a513d4816'
call_id='0' call_type='call'
from_address=AddressInfo(address='0x11111111254fb6c44bac0bed2854e76f90643097d',
name='AggregationRouterV4', badge='receiver')
to address=AddressInfo(address='0xdac17f958d2ee523a2206206994597c13d831ec7',
name='TetherToken', badge=None) value=0.0 function_signature='0x23b872dd'
function_name='transferFrom' arguments=[Argument(name='_from', type='address',
value=AddressInfo(address='0xc143790f399351c25a906bb3fb15630828f8e75e',
name='0xc143790f399351c25a906bb3fb15630828f8e75e', badge='sender')),
Argument(name=' to', type='address',
value=AddressInfo(address='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8',
name='0xf2f400c138f9fb900576263af0bc7fcde2b1b8a8', badge=None)),
Argument(name='_value', type='uint256', value=9.40024227336e-25)] outputs=[]
gas_used=43630 error=None status=True indent=1 subcalls=[]
function_guessed=False
```