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```json
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```json
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```json
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    "author": "James Ocallaghan",
    "details": "The system showcases credit/debit balance management across mainnet and
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                "returns": {

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            "getTotalTransactions()": {

                "details": "Getter function for total transactions (for demonstration).",

                "returns": {

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PUSH2 0xF6 JUMPI JUMPDEST PUSH0 DUP1 REVERT JUMPDEST PUSH2 0x73 PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0x6E SWAP2 SWAP1 PUSH2 0x5B5 JUMP JUMPDEST PUSH2 0x126 JUMP JUMPDEST STOP JUMPDEST PUSH2 0x8F PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0x8A SWAP2 SWAP1 PUSH2 0x5F3 JUMP JUMPDEST PUSH2 0x424 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0x9E SWAP4 SWAP3 SWAP2 SWAP1 PUSH2 0x63C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST PUSH2 0xC1 PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0xBC SWAP2 SWAP1 PUSH2 0x671 JUMP JUMPDEST PUSH2 0x478 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0xCF SWAP3 SWAP2 SWAP1 PUSH2 0x69C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST PUSH2 0xE0 PUSH2 0x497 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0xED SWAP2 SWAP1 PUSH2 0x6C3 JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST PUSH2 0x110 PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0x10B SWAP2 SWAP1 PUSH2 0x671 JUMP JUMPDEST PUSH2 0x4A3 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0x11D SWAP2 SWAP1 PUSH2 0x718 JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST DUP1 PUSH0 DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH0 ADD SLOAD LT ISZERO PUSH2 0x1A7 JUMPI PUSH1 0x40 MLOAD PUSH32 0x8C379A00000000000000000000000000000000000000000000000000000000 DUP2 MSTORE PUSH1 0x4 ADD PUSH2 0x19E SWAP1 PUSH2 0x78B JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 REVERT JUMPDEST DUP1 PUSH0 DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH0 ADD PUSH0 DUP3

DUP3 SLOAD PUSH2 0x1F4 SWAP2 SWAP1 PUSH2 0x7D6 JUMP JUMPDEST SWAP3 POP POP DUP2 SWAP1 SSTORE POP DUP1 PUSH0 DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x1 ADD PUSH0 DUP3 DUP3 SLOAD PUSH2 0x249 SWAP2 SWAP1 PUSH2 0x809 JUMP JUMPDEST SWAP3 POP POP DUP2 SWAP1 SSTORE POP PUSH1 0x1 PUSH1 0x40 MLOAD DUP1 PUSH1 0x60 ADD PUSH1 0x40 MSTORE DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD DUP4 DUP2 MSTORE PUSH1 0x20 ADD DUP4 DUP2 MSTORE POP SWAP1 DUP1 PUSH1 0x1 DUP2 SLOAD ADD DUP1 DUP3 SSTORE DUP1 SWAP2 POP POP PUSH1 0x1 SWAP1 SUB SWAP1 PUSH0 MSTORE PUSH1 0x20 PUSH0 KECCAK256 SWAP1 PUSH1 0x3 MUL ADD PUSH0 SWAP1 SWAP2 SWAP1 SWAP2 SWAP1 SWAP2 POP PUSH0 DUP3 ADD MLOAD DUP2 PUSH0 ADD PUSH0 PUSH2 0x100 EXP DUP2 SLOAD DUP2 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF MUL NOT AND SWAP1 DUP4 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND MUL OR SWAP1 SSTORE POP PUSH1 0x20 DUP3 ADD MLOAD DUP2 PUSH1 0x1 ADD SSTORE PUSH1 0x40 DUP3 ADD MLOAD DUP2 PUSH1 0x2 ADD SSTORE POP POP DUP2 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH32 0x7772D368CD3CC6FA8DC9C0956D36DD1243D603ABC8D99496F89D0E6950D80DDE DUP3 DUP4 PUSH1 0x40 MLOAD PUSH2 0x34B SWAP3 SWAP2 SWAP1 PUSH2 0x69C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 LOG2 DUP2 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH32 0xE3E2E5B15DBD2776222DEAB4CBD7FB2AEEECFD735EED24E9809B2352F3FA2D37 PUSH0 DUP1 DUP6 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH0 ADD SLOAD PUSH0

DUP1 DUP7 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x1 ADD SLOAD PUSH1 0x40 MLOAD PUSH2 0x418 SWAP3 SWAP2 SWAP1 PUSH2 0x69C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 LOG2 POP POP JUMP JUMPDEST PUSH1 0x1 DUP2 DUP2 SLOAD DUP2 LT PUSH2 0x433 JUMPI PUSH0 DUP1 REVERT JUMPDEST SWAP1 PUSH0 MSTORE PUSH1 0x20 PUSH0 KECCAK256 SWAP1 PUSH1 0x3 MUL ADD PUSH0 SWAP2 POP SWAP1 POP DUP1 PUSH0 ADD PUSH0 SWAP1 SLOAD SWAP1 PUSH2 0x100 EXP SWAP1 DIV PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND SWAP1 DUP1 PUSH1 0x1 ADD SLOAD SWAP1 DUP1 PUSH1 0x2 ADD SLOAD SWAP1 POP DUP4 JUMP JUMPDEST PUSH0 PUSH1 0x20 MSTORE DUP1 PUSH0 MSTORE PUSH1 0x40 PUSH0 KECCAK256 PUSH0 SWAP2 POP SWAP1 POP DUP1 PUSH0 ADD SLOAD SWAP1 DUP1 PUSH1 0x1 ADD SLOAD SWAP1 POP DUP3 JUMP JUMPDEST PUSH0 PUSH1 0x1 DUP1 SLOAD SWAP1 POP SWAP1 POP SWAP1 JUMP JUMPDEST PUSH2 0x4AB PUSH2 0x50C JUMP JUMPDEST PUSH0 DUP1 DUP4 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x40 MLOAD DUP1 PUSH1 0x40 ADD PUSH1 0x40 MSTORE SWAP1 DUP2 PUSH0 DUP3 ADD SLOAD DUP2 MSTORE PUSH1 0x20 ADD PUSH1 0x1 DUP3 ADD SLOAD DUP2 MSTORE POP POP SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 PUSH1 0x40 ADD PUSH1 0x40 MSTORE DUP1 PUSH0 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 DUP2 MSTORE POP SWAP1 JUMP JUMPDEST PUSH0 DUP1 REVERT JUMPDEST PUSH0 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF DUP3 AND SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH0 PUSH2 0x551 DUP3 PUSH2 0x528 JUMP JUMPDEST SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH2 0x561 DUP2 PUSH2 0x547 JUMP

JUMPDEST DUP2 EQ PUSH2 0x56B JUMPI PUSH0 DUP1 REVERT JUMPDEST POP JUMP JUMPDEST PUSH0 DUP2 CALLDATALOAD SWAP1 POP PUSH2 0x57C DUP2 PUSH2 0x558 JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 DUP2 SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH2 0x594 DUP2 PUSH2 0x582 JUMP JUMPDEST DUP2 EQ PUSH2 0x59E JUMPI PUSH0 DUP1 REVERT JUMPDEST POP JUMP JUMPDEST PUSH0 DUP2 CALLDATALOAD SWAP1 POP PUSH2 0x5AF DUP2 PUSH2 0x58B JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 DUP1 PUSH1 0x40 DUP4 DUP6 SUB SLT ISZERO PUSH2 0x5CB JUMPI PUSH2 0x5CA PUSH2 0x524 JUMP JUMPDEST JUMPDEST PUSH0 PUSH2 0x5D8 DUP6 DUP3 DUP7 ADD PUSH2 0x56E JUMP JUMPDEST SWAP3 POP POP PUSH1 0x20 PUSH2 0x5E9 DUP6 DUP3 DUP7 ADD PUSH2 0x5A1 JUMP JUMPDEST SWAP2 POP POP SWAP3 POP SWAP3 SWAP1 POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 DUP5 SUB SLT ISZERO PUSH2 0x608 JUMPI PUSH2 0x607 PUSH2 0x524 JUMP JUMPDEST JUMPDEST PUSH0 PUSH2 0x615 DUP5 DUP3 DUP6 ADD PUSH2 0x5A1 JUMP JUMPDEST SWAP2 POP POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH2 0x627 DUP2 PUSH2 0x547 JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH2 0x636 DUP2 PUSH2 0x582 JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH0 PUSH1 0x60 DUP3 ADD SWAP1 POP PUSH2 0x64F PUSH0 DUP4 ADD DUP7 PUSH2 0x61E JUMP JUMPDEST PUSH2 0x65C PUSH1 0x20 DUP4 ADD DUP6 PUSH2 0x62D JUMP JUMPDEST PUSH2 0x669 PUSH1 0x40 DUP4 ADD DUP5 PUSH2 0x62D JUMP JUMPDEST SWAP5 SWAP4 POP POP POP POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 DUP5 SUB SLT ISZERO PUSH2 0x686 JUMPI PUSH2 0x685 PUSH2 0x524 JUMP JUMPDEST JUMPDEST PUSH0 PUSH2 0x693 DUP5 DUP3 DUP6 ADD PUSH2 0x56E JUMP JUMPDEST SWAP2 POP POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 PUSH1 0x40 DUP3 ADD SWAP1 POP PUSH2 0x6AF PUSH0 DUP4 ADD DUP6 PUSH2 0x62D JUMP JUMPDEST PUSH2 0x6BC PUSH1 0x20 DUP4 ADD DUP5 PUSH2 0x62D JUMP JUMPDEST SWAP4 SWAP3 POP POP POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 ADD SWAP1 POP PUSH2 0x6D6

PUSH0 DUP4 ADD DUP5 PUSH2 0x62D JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH2 0x6E5 DUP2 PUSH2 0x582 JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH1 0x40 DUP3 ADD PUSH0 DUP3 ADD MLOAD PUSH2 0x6FF PUSH0 DUP6 ADD DUP3 PUSH2 0x6DC JUMP JUMPDEST POP PUSH1 0x20 DUP3 ADD MLOAD PUSH2 0x712 PUSH1 0x20 DUP6 ADD DUP3 PUSH2 0x6DC JUMP JUMPDEST POP POP POP POP JUMP JUMPDEST PUSH0 PUSH1 0x40 DUP3 ADD SWAP1 POP PUSH2 0x72B PUSH0 DUP4 ADD DUP5 PUSH2 0x6EB JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 DUP3 DUP3 MSTORE PUSH1 0x20 DUP3 ADD SWAP1 POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH32 0x496E73756666696369656E74206D61696E6E6574206261616C616E63652E000000 PUSH0 DUP3 ADD MSTORE POP JUMP JUMPDEST PUSH0 PUSH2 0x775 PUSH1 0x1D DUP4 PUSH2 0x731 JUMP JUMPDEST SWAP2 POP PUSH2 0x780 DUP3 PUSH2 0x741 JUMP JUMPDEST PUSH1 0x20 DUP3 ADD SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 ADD SWAP1 POP DUP2 DUP2 SUB PUSH0 DUP4 ADD MSTORE PUSH2 0x7A2 DUP2 PUSH2 0x769 JUMP JUMPDEST SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH32 0x4E487B7100000000000000000000000000000000000000000000000000000000 PUSH0 MSTORE PUSH1 0x11 PUSH1 0x4 MSTORE PUSH1 0x24 PUSH0 REVERT JUMPDEST PUSH0 PUSH2 0x7E0 DUP3 PUSH2 0x582 JUMP JUMPDEST SWAP2 POP PUSH2 0x7EB DUP4 PUSH2 0x582 JUMP JUMPDEST SWAP3 POP DUP3 DUP3 SUB SWAP1 POP DUP2 DUP2 GT ISZERO PUSH2 0x803 JUMPI PUSH2 0x802 PUSH2 0x7A9 JUMP JUMPDEST JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 PUSH2 0x813 DUP3 PUSH2 0x582 JUMP JUMPDEST SWAP2 POP PUSH2 0x81E DUP4 PUSH2 0x582 JUMP JUMPDEST SWAP3 POP DUP3 DUP3 ADD SWAP1 POP DUP1 DUP3 GT ISZERO PUSH2 0x836 JUMPI PUSH2 0x835 PUSH2 0x7A9 JUMP JUMPDEST JUMPDEST SWAP3 SWAP2 POP POP JUMP INVALID LOG2 PUSH5 0x6970667358 0x22 SLT KECCAK256 EXP GAS 0xF DUP4 DUP14 EQ 0xAB DUP3 PUSH28 0xD80C3BE88FE223705850E5E032F9B180CC58570FA631ED64736F6C63 NUMBER

STOP ADDMOD NOT STOP CALLER ",

"sourceMap":

"393:2830:0:-:0;;;1456:269;;;;;;;;;;1608:4;1571:7;:19;1579:10;1571:19;;;;;;;;;;;;;;;:34;;:41;;;;1687:3;165

0:7;:19;1658:10;1650:19;;;;;;;;;;;;;;;:34;;:40;;;;393:2830;;;;;;"

          },

          "deployedBytecode": {

            "functionDebugData": {

              "@getLedger_135": {

                "entryPoint": 1187,

                "id": 135,

                "parameterSlots": 1,

                "returnSlots": 1

              },

              "@getTotalTransactions_145": {

                "entryPoint": 1175,

                "id": 145,

                "parameterSlots": 0,

                "returnSlots": 1

              },

              "@ledgers_19": {

                "entryPoint": 1144,

                "id": 19,

                "parameterSlots": 0,

                "returnSlots": 0

              },

              "@performTransaction_121": {

      "entryPoint": 294,

      "id": 121,

      "parameterSlots": 2,

      "returnSlots": 0

   },

   "@transactions_23": {

      "entryPoint": 1060,

      "id": 23,

      "parameterSlots": 0,

      "returnSlots": 0

   },

   "abi_decode_t_address": {

      "entryPoint": 1390,

      "id": null,

      "parameterSlots": 2,

      "returnSlots": 1

   },

   "abi_decode_t_uint256": {

      "entryPoint": 1441,

      "id": null,

      "parameterSlots": 2,

      "returnSlots": 1

   },

   "abi_decode_tuple_t_address": {

      "entryPoint": 1649,

      "id": null,

      "parameterSlots": 2,

      "returnSlots": 1

    },

    "abi_decode_tuple_t_addresst_uint256": {

      "entryPoint": 1461,

      "id": null,

      "parameterSlots": 2,

      "returnSlots": 2

    },

    "abi_decode_tuple_t_uint256": {

      "entryPoint": 1523,

      "id": null,

      "parameterSlots": 2,

      "returnSlots": 1

    },

    "abi_encode_t_address_to_t_address_fromStack": {

      "entryPoint": 1566,

      "id": null,

      "parameterSlots": 2,

      "returnSlots": 0

    },

"abi_encode_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008

cf45_to_t_string_memory_ptr_fromStack": {

        "entryPoint": 1897,

        "id": null,

```json
          "parameterSlots": 1,

          "returnSlots": 1

      },


"abi_encode_t_struct$_Ledger_$7_memory_ptr_to_t_struct$_Ledger_$7_memory_ptr_fromStack":

{

          "entryPoint": 1771,

          "id": null,

          "parameterSlots": 2,

          "returnSlots": 0

      },

      "abi_encode_t_uint256_to_t_uint256": {

        "entryPoint": 1756,

        "id": null,

        "parameterSlots": 2,

        "returnSlots": 0

      },

      "abi_encode_t_uint256_to_t_uint256_fromStack": {

        "entryPoint": 1581,

        "id": null,

        "parameterSlots": 2,

        "returnSlots": 0

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"abi_encode_tuple_t_address_t_uint256_t_uint256__to_t_address_t_uint256_t_uint256__fromStack
_reversed": {
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            "entryPoint": 1596,

            "id": null,

            "parameterSlots": 4,

            "returnSlots": 1

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67008cf45__to_t_string_memory_ptr__fromStack_reversed": {

            "entryPoint": 1931,

            "id": null,

            "parameterSlots": 1,

            "returnSlots": 1

        },

"abi_encode_tuple_t_struct$_Ledger_$7_memory_ptr__to_t_struct$_Ledger_$7_memory_ptr__fro

mStack_reversed": {

            "entryPoint": 1816,

            "id": null,

            "parameterSlots": 2,

            "returnSlots": 1

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        "abi_encode_tuple_t_uint256__to_t_uint256__fromStack_reversed": {

            "entryPoint": 1731,

            "id": null,

            "parameterSlots": 2,

            "returnSlots": 1

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        },

"abi_encode_tuple_t_uint256_t_uint256__to_t_uint256_t_uint256__fromStack_reversed": {

        "entryPoint": 1692,

        "id": null,

        "parameterSlots": 3,

        "returnSlots": 1

    },

    "allocate_unbounded": {

        "entryPoint": null,

        "id": null,

        "parameterSlots": 0,

        "returnSlots": 1

    },

    "array_storeLengthForEncoding_t_string_memory_ptr_fromStack": {

        "entryPoint": 1841,

        "id": null,

        "parameterSlots": 2,

        "returnSlots": 1

    },

    "checked_add_t_uint256": {

        "entryPoint": 2057,

        "id": null,

        "parameterSlots": 2,

        "returnSlots": 1

    },
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```json
    "checked_sub_t_uint256": {

        "entryPoint": 2006,

        "id": null,

        "parameterSlots": 2,

        "returnSlots": 1

    },

    "cleanup_t_address": {

        "entryPoint": 1351,

        "id": null,

        "parameterSlots": 1,

        "returnSlots": 1

    },

    "cleanup_t_uint160": {

        "entryPoint": 1320,

        "id": null,

        "parameterSlots": 1,

        "returnSlots": 1

    },

    "cleanup_t_uint256": {

        "entryPoint": 1410,

        "id": null,

        "parameterSlots": 1,

        "returnSlots": 1

    },

    "panic_error_0x11": {

        "entryPoint": 1961,
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            "id": null,

            "parameterSlots": 0,

            "returnSlots": 0

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"revert_error_c1322bf8034eace5e0b5c7295db60986aa89aae5e0ea0873e4689e076861a5db": {

            "entryPoint": null,

            "id": null,

            "parameterSlots": 0,

            "returnSlots": 0

        },

"revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b": {

            "entryPoint": 1316,

            "id": null,

            "parameterSlots": 0,

            "returnSlots": 0

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"store_literal_in_memory_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf
45": {

            "entryPoint": 1857,

            "id": null,

            "parameterSlots": 1,

            "returnSlots": 0

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            "validator_revert_t_address": {

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                "id": null,

                "parameterSlots": 1,

                "returnSlots": 0

            },

            "validator_revert_t_uint256": {

                "entryPoint": 1419,

                "id": null,

                "parameterSlots": 1,

                "returnSlots": 0

            }

        },

        "generatedSources": [

            {

                "ast": {

                    "nativeSrc": "0:6381:1",

                    "nodeType": "YulBlock",

                    "src": "0:6381:1",

                    "statements": [

                        {

                            "body": {

                                "nativeSrc": "47:35:1",

                                "nodeType": "YulBlock",

                                "src": "47:35:1",

                                "statements": [
```

```json
{
    "nativeSrc": "57:19:1",
    "nodeType": "YulAssignment",
    "src": "57:19:1",
    "value": {
        "arguments": [
            {
                "kind": "number",
                "nativeSrc": "73:2:1",
                "nodeType": "YulLiteral",
                "src": "73:2:1",
                "type": "",
                "value": "64"
            }
        ],
        "functionName": {
            "name": "mload",
            "nativeSrc": "67:5:1",
            "nodeType": "YulIdentifier",
            "src": "67:5:1"
        },
        "nativeSrc": "67:9:1",
        "nodeType": "YulFunctionCall",
        "src": "67:9:1"
    },
    "variableNames": [
```

```json
                {
                    "name": "memPtr",
                    "nativeSrc": "57:6:1",
                    "nodeType": "YulIdentifier",
                    "src": "57:6:1"
                }
            ]
        }
    ]
},
"name": "allocate_unbounded",
"nativeSrc": "7:75:1",
"nodeType": "YulFunctionDefinition",
"returnVariables": [
    {
        "name": "memPtr",
        "nativeSrc": "40:6:1",
        "nodeType": "YulTypedName",
        "src": "40:6:1",
        "type": ""
    }
],
"src": "7:75:1"
},
{
    "body": {
```

"nativeSrc": "177:28:1",

"nodeType": "YulBlock",

"src": "177:28:1",

"statements": [

  {

    "expression": {

      "arguments": [

        {

          "kind": "number",

          "nativeSrc": "194:1:1",

          "nodeType": "YulLiteral",

          "src": "194:1:1",

          "type": "",

          "value": "0"

        },

        {

          "kind": "number",

          "nativeSrc": "197:1:1",

          "nodeType": "YulLiteral",

          "src": "197:1:1",

          "type": "",

          "value": "0"

        }

      ],

      "functionName": {

        "name": "revert",

                    "nativeSrc": "187:6:1",

                    "nodeType": "YulIdentifier",

                    "src": "187:6:1"

                },

                "nativeSrc": "187:12:1",

                "nodeType": "YulFunctionCall",

                "src": "187:12:1"

            },

            "nativeSrc": "187:12:1",

            "nodeType": "YulExpressionStatement",

            "src": "187:12:1"

        }

    ]

},

                                                        "name":

"revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b",

            "nativeSrc": "88:117:1",

            "nodeType": "YulFunctionDefinition",

            "src": "88:117:1"

        },

        {

            "body": {

                "nativeSrc": "300:28:1",

                "nodeType": "YulBlock",

                "src": "300:28:1",

                "statements": [

```json
{
    "expression": {
        "arguments": [
            {
                "kind": "number",
                "nativeSrc": "317:1:1",
                "nodeType": "YulLiteral",
                "src": "317:1:1",
                "type": "",
                "value": "0"
            },
            {
                "kind": "number",
                "nativeSrc": "320:1:1",
                "nodeType": "YulLiteral",
                "src": "320:1:1",
                "type": "",
                "value": "0"
            }
        ],
        "functionName": {
            "name": "revert",
            "nativeSrc": "310:6:1",
            "nodeType": "YulIdentifier",
            "src": "310:6:1"
        },
```

```json
                    "nativeSrc": "310:12:1",

                    "nodeType": "YulFunctionCall",

                    "src": "310:12:1"

                  },

                  "nativeSrc": "310:12:1",

                  "nodeType": "YulExpressionStatement",

                  "src": "310:12:1"

                }

              ]

            },

                                      "name":

"revert_error_c1322bf8034eace5e0b5c7295db60986aa89aae5e0ea0873e4689e076861a5db",

            "nativeSrc": "211:117:1",

            "nodeType": "YulFunctionDefinition",

            "src": "211:117:1"

          },

          {

            "body": {

              "nativeSrc": "379:81:1",

              "nodeType": "YulBlock",

              "src": "379:81:1",

              "statements": [

                {

                  "nativeSrc": "389:65:1",

                  "nodeType": "YulAssignment",

                  "src": "389:65:1",
```

```json
"value": {
  "arguments": [
    {
      "name": "value",
      "nativeSrc": "404:5:1",
      "nodeType": "YulIdentifier",
      "src": "404:5:1"
    },
    {
      "kind": "number",
      "nativeSrc": "411:42:1",
      "nodeType": "YulLiteral",
      "src": "411:42:1",
      "type": "",
      "value": "0xffffffffffffffffffffffffffffffffffffffff"
    }
  ],
  "functionName": {
    "name": "and",
    "nativeSrc": "400:3:1",
    "nodeType": "YulIdentifier",
    "src": "400:3:1"
  },
  "nativeSrc": "400:54:1",
  "nodeType": "YulFunctionCall",
  "src": "400:54:1"
```

```json
                        },
                        "variableNames": [
                            {
                                "name": "cleaned",
                                "nativeSrc": "389:7:1",
                                "nodeType": "YulIdentifier",
                                "src": "389:7:1"
                            }
                        ]
                    }
                ]
            },
            "name": "cleanup_t_uint160",
            "nativeSrc": "334:126:1",
            "nodeType": "YulFunctionDefinition",
            "parameters": [
                {
                    "name": "value",
                    "nativeSrc": "361:5:1",
                    "nodeType": "YulTypedName",
                    "src": "361:5:1",
                    "type": ""
                }
            ],
            "returnVariables": [
                {
```

                    "name": "cleaned",

                    "nativeSrc": "371:7:1",

                    "nodeType": "YulTypedName",

                    "src": "371:7:1",

                    "type": ""

                }

            ],

            "src": "334:126:1"

        },

        {

            "body": {

                "nativeSrc": "511:51:1",

                "nodeType": "YulBlock",

                "src": "511:51:1",

                "statements": [

                    {

                        "nativeSrc": "521:35:1",

                        "nodeType": "YulAssignment",

                        "src": "521:35:1",

                        "value": {

                            "arguments": [

                                {

                                    "name": "value",

                                    "nativeSrc": "550:5:1",

                                    "nodeType": "YulIdentifier",

                                    "src": "550:5:1"

```
                    }
                ],
                "functionName": {
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                    "nativeSrc": "532:17:1",
                    "nodeType": "YulIdentifier",
                    "src": "532:17:1"
                },
                "nativeSrc": "532:24:1",
                "nodeType": "YulFunctionCall",
                "src": "532:24:1"
            },
            "variableNames": [
                {
                    "name": "cleaned",
                    "nativeSrc": "521:7:1",
                    "nodeType": "YulIdentifier",
                    "src": "521:7:1"
                }
            ]
        }
    ]
},
"name": "cleanup_t_address",
"nativeSrc": "466:96:1",
"nodeType": "YulFunctionDefinition",
```

```json
      "parameters": [
        {
          "name": "value",
          "nativeSrc": "493:5:1",
          "nodeType": "YulTypedName",
          "src": "493:5:1",
          "type": ""
        }
      ],
      "returnVariables": [
        {
          "name": "cleaned",
          "nativeSrc": "503:7:1",
          "nodeType": "YulTypedName",
          "src": "503:7:1",
          "type": ""
        }
      ],
      "src": "466:96:1"
    },
    {
      "body": {
        "nativeSrc": "611:79:1",
        "nodeType": "YulBlock",
        "src": "611:79:1",
        "statements": [
```

```json
{
    "body": {
        "nativeSrc": "668:16:1",
        "nodeType": "YulBlock",
        "src": "668:16:1",
        "statements": [
            {
                "expression": {
                    "arguments": [
                        {
                            "kind": "number",
                            "nativeSrc": "677:1:1",
                            "nodeType": "YulLiteral",
                            "src": "677:1:1",
                            "type": "",
                            "value": "0"
                        },
                        {
                            "kind": "number",
                            "nativeSrc": "680:1:1",
                            "nodeType": "YulLiteral",
                            "src": "680:1:1",
                            "type": "",
                            "value": "0"
                        }
                    ],
```

```
                            "functionName": {

                                "name": "revert",

                                "nativeSrc": "670:6:1",

                                "nodeType": "YulIdentifier",

                                "src": "670:6:1"

                            },

                            "nativeSrc": "670:12:1",

                            "nodeType": "YulFunctionCall",

                            "src": "670:12:1"

                        },

                        "nativeSrc": "670:12:1",

                        "nodeType": "YulExpressionStatement",

                        "src": "670:12:1"

                    }

                ]

            },

            "condition": {

                "arguments": [

                    {

                        "arguments": [

                            {

                                "name": "value",

                                "nativeSrc": "634:5:1",

                                "nodeType": "YulIdentifier",

                                "src": "634:5:1"

                            },
```

```json
{
    "arguments": [
        {
            "name": "value",
            "nativeSrc": "659:5:1",
            "nodeType": "YulIdentifier",
            "src": "659:5:1"
        }
    ],
    "functionName": {
        "name": "cleanup_t_address",
        "nativeSrc": "641:17:1",
        "nodeType": "YulIdentifier",
        "src": "641:17:1"
    },
    "nativeSrc": "641:24:1",
    "nodeType": "YulFunctionCall",
    "src": "641:24:1"
}
],
"functionName": {
    "name": "eq",
    "nativeSrc": "631:2:1",
    "nodeType": "YulIdentifier",
    "src": "631:2:1"
},
```

```json
                    "nativeSrc": "631:35:1",

                    "nodeType": "YulFunctionCall",

                    "src": "631:35:1"

                }
            ],

            "functionName": {

                "name": "iszero",

                "nativeSrc": "624:6:1",

                "nodeType": "YulIdentifier",

                "src": "624:6:1"

            },

            "nativeSrc": "624:43:1",

            "nodeType": "YulFunctionCall",

            "src": "624:43:1"

        },

        "nativeSrc": "621:63:1",

        "nodeType": "YulIf",

        "src": "621:63:1"

    }

  ]

},

"name": "validator_revert_t_address",

"nativeSrc": "568:122:1",

"nodeType": "YulFunctionDefinition",

"parameters": [

    {
```

```
                "name": "value",

                "nativeSrc": "604:5:1",

                "nodeType": "YulTypedName",

                "src": "604:5:1",

                "type": ""

            }

        ],

        "src": "568:122:1"

    },

    {

        "body": {

            "nativeSrc": "748:87:1",

            "nodeType": "YulBlock",

            "src": "748:87:1",

            "statements": [

                {

                    "nativeSrc": "758:29:1",

                    "nodeType": "YulAssignment",

                    "src": "758:29:1",

                    "value": {

                        "arguments": [

                            {

                                "name": "offset",

                                "nativeSrc": "780:6:1",

                                "nodeType": "YulIdentifier",

                                "src": "780:6:1"
```

```json
            }
          ],
          "functionName": {
            "name": "calldataload",
            "nativeSrc": "767:12:1",
            "nodeType": "YulIdentifier",
            "src": "767:12:1"
          },
          "nativeSrc": "767:20:1",
          "nodeType": "YulFunctionCall",
          "src": "767:20:1"
        },
        "variableNames": [
          {
            "name": "value",
            "nativeSrc": "758:5:1",
            "nodeType": "YulIdentifier",
            "src": "758:5:1"
          }
        ]
      },
      {
        "expression": {
          "arguments": [
            {
              "name": "value",
```

```json
                            "nativeSrc": "823:5:1",

                            "nodeType": "YulIdentifier",

                            "src": "823:5:1"

                        }

                    ],

                    "functionName": {

                        "name": "validator_revert_t_address",

                        "nativeSrc": "796:26:1",

                        "nodeType": "YulIdentifier",

                        "src": "796:26:1"

                    },

                    "nativeSrc": "796:33:1",

                    "nodeType": "YulFunctionCall",

                    "src": "796:33:1"

                },

                "nativeSrc": "796:33:1",

                "nodeType": "YulExpressionStatement",

                "src": "796:33:1"

            }

        ]

    },

    "name": "abi_decode_t_address",

    "nativeSrc": "696:139:1",

    "nodeType": "YulFunctionDefinition",

    "parameters": [

        {
```

                "name": "offset",

                "nativeSrc": "726:6:1",

                "nodeType": "YulTypedName",

                "src": "726:6:1",

                "type": ""

            },

            {

                "name": "end",

                "nativeSrc": "734:3:1",

                "nodeType": "YulTypedName",

                "src": "734:3:1",

                "type": ""

            }

        ],

        "returnVariables": [

            {

                "name": "value",

                "nativeSrc": "742:5:1",

                "nodeType": "YulTypedName",

                "src": "742:5:1",

                "type": ""

            }

        ],

        "src": "696:139:1"

    },

    {

```json
"body": {
  "nativeSrc": "886:32:1",
  "nodeType": "YulBlock",
  "src": "886:32:1",
  "statements": [
    {
      "nativeSrc": "896:16:1",
      "nodeType": "YulAssignment",
      "src": "896:16:1",
      "value": {
        "name": "value",
        "nativeSrc": "907:5:1",
        "nodeType": "YulIdentifier",
        "src": "907:5:1"
      },
      "variableNames": [
        {
          "name": "cleaned",
          "nativeSrc": "896:7:1",
          "nodeType": "YulIdentifier",
          "src": "896:7:1"
        }
      ]
    }
  ]
},
```

```json
      "name": "cleanup_t_uint256",

      "nativeSrc": "841:77:1",

      "nodeType": "YulFunctionDefinition",

      "parameters": [

        {

          "name": "value",

          "nativeSrc": "868:5:1",

          "nodeType": "YulTypedName",

          "src": "868:5:1",

          "type": ""

        }

      ],

      "returnVariables": [

        {

          "name": "cleaned",

          "nativeSrc": "878:7:1",

          "nodeType": "YulTypedName",

          "src": "878:7:1",

          "type": ""

        }

      ],

      "src": "841:77:1"

    },

    {

      "body": {

        "nativeSrc": "967:79:1",
```

"nodeType": "YulBlock",

"src": "967:79:1",

"statements": [

{

"body": {

"nativeSrc": "1024:16:1",

"nodeType": "YulBlock",

"src": "1024:16:1",

"statements": [

{

"expression": {

"arguments": [

{

"kind": "number",

"nativeSrc": "1033:1:1",

"nodeType": "YulLiteral",

"src": "1033:1:1",

"type": "",

"value": "0"

},

{

"kind": "number",

"nativeSrc": "1036:1:1",

"nodeType": "YulLiteral",

"src": "1036:1:1",

"type": "",

```json
                        "value": "0"

                      }

                    ],

                    "functionName": {

                      "name": "revert",

                      "nativeSrc": "1026:6:1",

                      "nodeType": "YulIdentifier",

                      "src": "1026:6:1"

                    },

                    "nativeSrc": "1026:12:1",

                    "nodeType": "YulFunctionCall",

                    "src": "1026:12:1"

                  },

                  "nativeSrc": "1026:12:1",

                  "nodeType": "YulExpressionStatement",

                  "src": "1026:12:1"

                }

              ]

            },

            "condition": {

              "arguments": [

                {

                  "arguments": [

                    {

                      "name": "value",

                      "nativeSrc": "990:5:1",
```

              "nodeType": "YulIdentifier",

              "src": "990:5:1"

          },

          {

              "arguments": [

                  {

                      "name": "value",

                      "nativeSrc": "1015:5:1",

                      "nodeType": "YulIdentifier",

                      "src": "1015:5:1"

                  }

              ],

              "functionName": {

                  "name": "cleanup_t_uint256",

                  "nativeSrc": "997:17:1",

                  "nodeType": "YulIdentifier",

                  "src": "997:17:1"

              },

              "nativeSrc": "997:24:1",

              "nodeType": "YulFunctionCall",

              "src": "997:24:1"

          }

      ],

      "functionName": {

          "name": "eq",

          "nativeSrc": "987:2:1",

```
                    "nodeType": "YulIdentifier",

                    "src": "987:2:1"

                },

                "nativeSrc": "987:35:1",

                "nodeType": "YulFunctionCall",

                "src": "987:35:1"

            }

        ],

        "functionName": {

            "name": "iszero",

            "nativeSrc": "980:6:1",

            "nodeType": "YulIdentifier",

            "src": "980:6:1"

        },

        "nativeSrc": "980:43:1",

        "nodeType": "YulFunctionCall",

        "src": "980:43:1"

    },

    "nativeSrc": "977:63:1",

    "nodeType": "YulIf",

    "src": "977:63:1"

    }

  ]

},

"name": "validator_revert_t_uint256",

"nativeSrc": "924:122:1",
```

```json
      "nodeType": "YulFunctionDefinition",
      "parameters": [
        {
          "name": "value",
          "nativeSrc": "960:5:1",
          "nodeType": "YulTypedName",
          "src": "960:5:1",
          "type": ""
        }
      ],
      "src": "924:122:1"
    },
    {
      "body": {
        "nativeSrc": "1104:87:1",
        "nodeType": "YulBlock",
        "src": "1104:87:1",
        "statements": [
          {
            "nativeSrc": "1114:29:1",
            "nodeType": "YulAssignment",
            "src": "1114:29:1",
            "value": {
              "arguments": [
                {
                  "name": "offset",
```

```json
                "nativeSrc": "1136:6:1",

                "nodeType": "YulIdentifier",

                "src": "1136:6:1"

            }

        ],

        "functionName": {

            "name": "calldataload",

            "nativeSrc": "1123:12:1",

            "nodeType": "YulIdentifier",

            "src": "1123:12:1"

        },

        "nativeSrc": "1123:20:1",

        "nodeType": "YulFunctionCall",

        "src": "1123:20:1"

    },

    "variableNames": [

        {

            "name": "value",

            "nativeSrc": "1114:5:1",

            "nodeType": "YulIdentifier",

            "src": "1114:5:1"

        }

    ]

},

{

    "expression": {
```

```json
                    "arguments": [
                      {
                        "name": "value",
                        "nativeSrc": "1179:5:1",
                        "nodeType": "YulIdentifier",
                        "src": "1179:5:1"
                      }
                    ],
                    "functionName": {
                      "name": "validator_revert_t_uint256",
                      "nativeSrc": "1152:26:1",
                      "nodeType": "YulIdentifier",
                      "src": "1152:26:1"
                    },
                    "nativeSrc": "1152:33:1",
                    "nodeType": "YulFunctionCall",
                    "src": "1152:33:1"
                  },
                  "nativeSrc": "1152:33:1",
                  "nodeType": "YulExpressionStatement",
                  "src": "1152:33:1"
                }
              ]
            },
            "name": "abi_decode_t_uint256",
            "nativeSrc": "1052:139:1",
```

```
"nodeType": "YulFunctionDefinition",

"parameters": [

    {

        "name": "offset",

        "nativeSrc": "1082:6:1",

        "nodeType": "YulTypedName",

        "src": "1082:6:1",

        "type": ""

    },

    {

        "name": "end",

        "nativeSrc": "1090:3:1",

        "nodeType": "YulTypedName",

        "src": "1090:3:1",

        "type": ""

    }

],

"returnVariables": [

    {

        "name": "value",

        "nativeSrc": "1098:5:1",

        "nodeType": "YulTypedName",

        "src": "1098:5:1",

        "type": ""

    }

],
```

                    "src": "1052:139:1"
                },
                {
                    "body": {
                        "nativeSrc": "1280:391:1",
                        "nodeType": "YulBlock",
                        "src": "1280:391:1",
                        "statements": [
                            {
                                "body": {
                                    "nativeSrc": "1326:83:1",
                                    "nodeType": "YulBlock",
                                    "src": "1326:83:1",
                                    "statements": [
                                        {
                                            "expression": {
                                                "arguments": [],
                                                "functionName": {
                                                    "name": "revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b",
                                                    "nativeSrc": "1328:77:1",
                                                    "nodeType": "YulIdentifier",
                                                    "src": "1328:77:1"
                                                },
                                                "nativeSrc": "1328:79:1",
                                                "nodeType": "YulFunctionCall",

```json
                        "src": "1328:79:1"
                    },
                    "nativeSrc": "1328:79:1",
                    "nodeType": "YulExpressionStatement",
                    "src": "1328:79:1"
                }
            ]
        },
        "condition": {
            "arguments": [
                {
                    "arguments": [
                        {
                            "name": "dataEnd",
                            "nativeSrc": "1301:7:1",
                            "nodeType": "YulIdentifier",
                            "src": "1301:7:1"
                        },
                        {
                            "name": "headStart",
                            "nativeSrc": "1310:9:1",
                            "nodeType": "YulIdentifier",
                            "src": "1310:9:1"
                        }
                    ],
                    "functionName": {
```

```json
                    "name": "sub",

                    "nativeSrc": "1297:3:1",

                    "nodeType": "YulIdentifier",

                    "src": "1297:3:1"

                },

                "nativeSrc": "1297:23:1",

                "nodeType": "YulFunctionCall",

                "src": "1297:23:1"

            },

            {

                "kind": "number",

                "nativeSrc": "1322:2:1",

                "nodeType": "YulLiteral",

                "src": "1322:2:1",

                "type": "",

                "value": "64"

            }

        ],

        "functionName": {

            "name": "slt",

            "nativeSrc": "1293:3:1",

            "nodeType": "YulIdentifier",

            "src": "1293:3:1"

        },

        "nativeSrc": "1293:32:1",

        "nodeType": "YulFunctionCall",
```

```json
          "src": "1293:32:1"
        },
        "nativeSrc": "1290:119:1",
        "nodeType": "YulIf",
        "src": "1290:119:1"
      },
      {
        "nativeSrc": "1419:117:1",
        "nodeType": "YulBlock",
        "src": "1419:117:1",
        "statements": [
          {
            "nativeSrc": "1434:15:1",
            "nodeType": "YulVariableDeclaration",
            "src": "1434:15:1",
            "value": {
              "kind": "number",
              "nativeSrc": "1448:1:1",
              "nodeType": "YulLiteral",
              "src": "1448:1:1",
              "type": "",
              "value": "0"
            },
            "variables": [
              {
                "name": "offset",
```

                    "nativeSrc": "1438:6:1",

                    "nodeType": "YulTypedName",

                    "src": "1438:6:1",

                    "type": ""

                }

            ]

        },

        {

            "nativeSrc": "1463:63:1",

            "nodeType": "YulAssignment",

            "src": "1463:63:1",

            "value": {

                "arguments": [

                    {

                        "arguments": [

                            {

                                "name": "headStart",

                                "nativeSrc": "1498:9:1",

                                "nodeType": "YulIdentifier",

                                "src": "1498:9:1"

                            },

                            {

                                "name": "offset",

                                "nativeSrc": "1509:6:1",

                                "nodeType": "YulIdentifier",

                                "src": "1509:6:1"

                    }
                ],
                "functionName": {
                    "name": "add",
                    "nativeSrc": "1494:3:1",
                    "nodeType": "YulIdentifier",
                    "src": "1494:3:1"
                },
                "nativeSrc": "1494:22:1",
                "nodeType": "YulFunctionCall",
                "src": "1494:22:1"
            },
            {
                "name": "dataEnd",
                "nativeSrc": "1518:7:1",
                "nodeType": "YulIdentifier",
                "src": "1518:7:1"
            }
        ],
        "functionName": {
            "name": "abi_decode_t_address",
            "nativeSrc": "1473:20:1",
            "nodeType": "YulIdentifier",
            "src": "1473:20:1"
        },
        "nativeSrc": "1473:53:1",

```json
          "nodeType": "YulFunctionCall",

          "src": "1473:53:1"

        },

        "variableNames": [

          {

            "name": "value0",

            "nativeSrc": "1463:6:1",

            "nodeType": "YulIdentifier",

            "src": "1463:6:1"

          }

        ]

      }

    ]

  },

  {

    "nativeSrc": "1546:118:1",

    "nodeType": "YulBlock",

    "src": "1546:118:1",

    "statements": [

      {

        "nativeSrc": "1561:16:1",

        "nodeType": "YulVariableDeclaration",

        "src": "1561:16:1",

        "value": {

          "kind": "number",

          "nativeSrc": "1575:2:1",
```

```json
            "nodeType": "YulLiteral",

            "src": "1575:2:1",

            "type": "",

            "value": "32"

          },

          "variables": [

            {

              "name": "offset",

              "nativeSrc": "1565:6:1",

              "nodeType": "YulTypedName",

              "src": "1565:6:1",

              "type": ""

            }

          ]

        },

        {

          "nativeSrc": "1591:63:1",

          "nodeType": "YulAssignment",

          "src": "1591:63:1",

          "value": {

            "arguments": [

              {

                "arguments": [

                  {

                    "name": "headStart",

                    "nativeSrc": "1626:9:1",
```

```json
          "nodeType": "YulIdentifier",
          "src": "1626:9:1"
        },
        {
          "name": "offset",
          "nativeSrc": "1637:6:1",
          "nodeType": "YulIdentifier",
          "src": "1637:6:1"
        }
      ],
      "functionName": {
        "name": "add",
        "nativeSrc": "1622:3:1",
        "nodeType": "YulIdentifier",
        "src": "1622:3:1"
      },
      "nativeSrc": "1622:22:1",
      "nodeType": "YulFunctionCall",
      "src": "1622:22:1"
    },
    {
      "name": "dataEnd",
      "nativeSrc": "1646:7:1",
      "nodeType": "YulIdentifier",
      "src": "1646:7:1"
    }
```

```json
                        ],
                        "functionName": {
                            "name": "abi_decode_t_uint256",
                            "nativeSrc": "1601:20:1",
                            "nodeType": "YulIdentifier",
                            "src": "1601:20:1"
                        },
                        "nativeSrc": "1601:53:1",
                        "nodeType": "YulFunctionCall",
                        "src": "1601:53:1"
                    },
                    "variableNames": [
                        {
                            "name": "value1",
                            "nativeSrc": "1591:6:1",
                            "nodeType": "YulIdentifier",
                            "src": "1591:6:1"
                        }
                    ]
                }
            ]
        },
        "name": "abi_decode_tuple_t_addresst_uint256",
        "nativeSrc": "1197:474:1",
```

```json
        "nodeType": "YulFunctionDefinition",

        "parameters": [

            {

                "name": "headStart",

                "nativeSrc": "1242:9:1",

                "nodeType": "YulTypedName",

                "src": "1242:9:1",

                "type": ""

            },

            {

                "name": "dataEnd",

                "nativeSrc": "1253:7:1",

                "nodeType": "YulTypedName",

                "src": "1253:7:1",

                "type": ""

            }

        ],

        "returnVariables": [

            {

                "name": "value0",

                "nativeSrc": "1265:6:1",

                "nodeType": "YulTypedName",

                "src": "1265:6:1",

                "type": ""

            },

            {
```

```
                    "name": "value1",

                    "nativeSrc": "1273:6:1",

                    "nodeType": "YulTypedName",

                    "src": "1273:6:1",

                    "type": ""

                }

            ],

            "src": "1197:474:1"

        },

        {

            "body": {

                "nativeSrc": "1743:263:1",

                "nodeType": "YulBlock",

                "src": "1743:263:1",

                "statements": [

                    {

                        "body": {

                            "nativeSrc": "1789:83:1",

                            "nodeType": "YulBlock",

                            "src": "1789:83:1",

                            "statements": [

                                {

                                    "expression": {

                                        "arguments": [],

                                        "functionName": {

                                                                "name":
```

"revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b",
                                        "nativeSrc": "1791:77:1",

                                        "nodeType": "YulIdentifier",

                                        "src": "1791:77:1"

                                    },

                                    "nativeSrc": "1791:79:1",

                                    "nodeType": "YulFunctionCall",

                                    "src": "1791:79:1"

                                },

                                "nativeSrc": "1791:79:1",

                                "nodeType": "YulExpressionStatement",

                                "src": "1791:79:1"

                            }

                        ]

                    },

                    "condition": {

                        "arguments": [

                            {

                                "arguments": [

                                    {

                                        "name": "dataEnd",

                                        "nativeSrc": "1764:7:1",

                                        "nodeType": "YulIdentifier",

                                        "src": "1764:7:1"

                                    },

                                    {

```json
                    "name": "headStart",

                    "nativeSrc": "1773:9:1",

                    "nodeType": "YulIdentifier",

                    "src": "1773:9:1"

                }

            ],

            "functionName": {

                "name": "sub",

                "nativeSrc": "1760:3:1",

                "nodeType": "YulIdentifier",

                "src": "1760:3:1"

            },

            "nativeSrc": "1760:23:1",

            "nodeType": "YulFunctionCall",

            "src": "1760:23:1"

        },

        {

            "kind": "number",

            "nativeSrc": "1785:2:1",

            "nodeType": "YulLiteral",

            "src": "1785:2:1",

            "type": "",

            "value": "32"

        }

    ],

    "functionName": {
```

```json
              "name": "slt",

              "nativeSrc": "1756:3:1",

              "nodeType": "YulIdentifier",

              "src": "1756:3:1"

          },

          "nativeSrc": "1756:32:1",

          "nodeType": "YulFunctionCall",

          "src": "1756:32:1"

      },

      "nativeSrc": "1753:119:1",

      "nodeType": "YulIf",

      "src": "1753:119:1"

  },

  {

      "nativeSrc": "1882:117:1",

      "nodeType": "YulBlock",

      "src": "1882:117:1",

      "statements": [

          {

              "nativeSrc": "1897:15:1",

              "nodeType": "YulVariableDeclaration",

              "src": "1897:15:1",

              "value": {

                  "kind": "number",

                  "nativeSrc": "1911:1:1",

                  "nodeType": "YulLiteral",
```

          "src": "1911:1:1",

          "type": "",

          "value": "0"

      },

      "variables": [

          {

              "name": "offset",

              "nativeSrc": "1901:6:1",

              "nodeType": "YulTypedName",

              "src": "1901:6:1",

              "type": ""

          }

      ]

  },

  {

      "nativeSrc": "1926:63:1",

      "nodeType": "YulAssignment",

      "src": "1926:63:1",

      "value": {

          "arguments": [

              {

                  "arguments": [

                      {

                          "name": "headStart",

                          "nativeSrc": "1961:9:1",

                          "nodeType": "YulIdentifier",

```json
          "src": "1961:9:1"
        },
        {
          "name": "offset",
          "nativeSrc": "1972:6:1",
          "nodeType": "YulIdentifier",
          "src": "1972:6:1"
        }
      ],
      "functionName": {
        "name": "add",
        "nativeSrc": "1957:3:1",
        "nodeType": "YulIdentifier",
        "src": "1957:3:1"
      },
      "nativeSrc": "1957:22:1",
      "nodeType": "YulFunctionCall",
      "src": "1957:22:1"
    },
    {
      "name": "dataEnd",
      "nativeSrc": "1981:7:1",
      "nodeType": "YulIdentifier",
      "src": "1981:7:1"
    }
  ],
```

```json
                              "functionName": {

                                  "name": "abi_decode_t_uint256",

                                  "nativeSrc": "1936:20:1",

                                  "nodeType": "YulIdentifier",

                                  "src": "1936:20:1"

                              },

                              "nativeSrc": "1936:53:1",

                              "nodeType": "YulFunctionCall",

                              "src": "1936:53:1"

                          },

                          "variableNames": [

                              {

                                  "name": "value0",

                                  "nativeSrc": "1926:6:1",

                                  "nodeType": "YulIdentifier",

                                  "src": "1926:6:1"

                              }

                          ]

                      }

                  ]

              },

              "name": "abi_decode_tuple_t_uint256",

              "nativeSrc": "1677:329:1",

              "nodeType": "YulFunctionDefinition",
```

```json
"parameters": [
  {
    "name": "headStart",
    "nativeSrc": "1713:9:1",
    "nodeType": "YulTypedName",
    "src": "1713:9:1",
    "type": ""
  },
  {
    "name": "dataEnd",
    "nativeSrc": "1724:7:1",
    "nodeType": "YulTypedName",
    "src": "1724:7:1",
    "type": ""
  }
],
"returnVariables": [
  {
    "name": "value0",
    "nativeSrc": "1736:6:1",
    "nodeType": "YulTypedName",
    "src": "1736:6:1",
    "type": ""
  }
],
"src": "1677:329:1"
```

```json
            },
            {
                "body": {
                    "nativeSrc": "2077:53:1",
                    "nodeType": "YulBlock",
                    "src": "2077:53:1",
                    "statements": [
                        {
                            "expression": {
                                "arguments": [
                                    {
                                        "name": "pos",
                                        "nativeSrc": "2094:3:1",
                                        "nodeType": "YulIdentifier",
                                        "src": "2094:3:1"
                                    },
                                    {
                                        "arguments": [
                                            {
                                                "name": "value",
                                                "nativeSrc": "2117:5:1",
                                                "nodeType": "YulIdentifier",
                                                "src": "2117:5:1"
                                            }
                                        ],
                                        "functionName": {
```

```json
                                "name": "cleanup_t_address",

                                "nativeSrc": "2099:17:1",

                                "nodeType": "YulIdentifier",

                                "src": "2099:17:1"

                            },

                            "nativeSrc": "2099:24:1",

                            "nodeType": "YulFunctionCall",

                            "src": "2099:24:1"

                        }

                    ],

                    "functionName": {

                        "name": "mstore",

                        "nativeSrc": "2087:6:1",

                        "nodeType": "YulIdentifier",

                        "src": "2087:6:1"

                    },

                    "nativeSrc": "2087:37:1",

                    "nodeType": "YulFunctionCall",

                    "src": "2087:37:1"

                },

                "nativeSrc": "2087:37:1",

                "nodeType": "YulExpressionStatement",

                "src": "2087:37:1"

            }

        ]

    },
```

```json
            "name": "abi_encode_t_address_to_t_address_fromStack",

            "nativeSrc": "2012:118:1",

            "nodeType": "YulFunctionDefinition",

            "parameters": [

                {

                    "name": "value",

                    "nativeSrc": "2065:5:1",

                    "nodeType": "YulTypedName",

                    "src": "2065:5:1",

                    "type": ""

                },

                {

                    "name": "pos",

                    "nativeSrc": "2072:3:1",

                    "nodeType": "YulTypedName",

                    "src": "2072:3:1",

                    "type": ""

                }

            ],

            "src": "2012:118:1"

        },

        {

            "body": {

                "nativeSrc": "2201:53:1",

                "nodeType": "YulBlock",

                "src": "2201:53:1",
```

```
"statements": [
    {
        "expression": {
            "arguments": [
                {
                    "name": "pos",
                    "nativeSrc": "2218:3:1",
                    "nodeType": "YulIdentifier",
                    "src": "2218:3:1"
                },
                {
                    "arguments": [
                        {
                            "name": "value",
                            "nativeSrc": "2241:5:1",
                            "nodeType": "YulIdentifier",
                            "src": "2241:5:1"
                        }
                    ],
                    "functionName": {
                        "name": "cleanup_t_uint256",
                        "nativeSrc": "2223:17:1",
                        "nodeType": "YulIdentifier",
                        "src": "2223:17:1"
                    },
                    "nativeSrc": "2223:24:1",
```

                            "nodeType": "YulFunctionCall",

                            "src": "2223:24:1"

                        }

                    ],

                    "functionName": {

                        "name": "mstore",

                        "nativeSrc": "2211:6:1",

                        "nodeType": "YulIdentifier",

                        "src": "2211:6:1"

                    },

                    "nativeSrc": "2211:37:1",

                    "nodeType": "YulFunctionCall",

                    "src": "2211:37:1"

                },

                "nativeSrc": "2211:37:1",

                "nodeType": "YulExpressionStatement",

                "src": "2211:37:1"

            }

        ]

    },

    "name": "abi_encode_t_uint256_to_t_uint256_fromStack",

    "nativeSrc": "2136:118:1",

    "nodeType": "YulFunctionDefinition",

    "parameters": [

        {

            "name": "value",

```json
                        "nativeSrc": "2189:5:1",

                        "nodeType": "YulTypedName",

                        "src": "2189:5:1",

                        "type": ""

                    },

                    {

                        "name": "pos",

                        "nativeSrc": "2196:3:1",

                        "nodeType": "YulTypedName",

                        "src": "2196:3:1",

                        "type": ""

                    }

                ],

                "src": "2136:118:1"

            },

            {

                "body": {

                    "nativeSrc": "2414:288:1",

                    "nodeType": "YulBlock",

                    "src": "2414:288:1",

                    "statements": [

                        {

                            "nativeSrc": "2424:26:1",

                            "nodeType": "YulAssignment",

                            "src": "2424:26:1",

                            "value": {
```

```json
            "arguments": [
                {
                    "name": "headStart",
                    "nativeSrc": "2436:9:1",
                    "nodeType": "YulIdentifier",
                    "src": "2436:9:1"
                },
                {
                    "kind": "number",
                    "nativeSrc": "2447:2:1",
                    "nodeType": "YulLiteral",
                    "src": "2447:2:1",
                    "type": "",
                    "value": "96"
                }
            ],
            "functionName": {
                "name": "add",
                "nativeSrc": "2432:3:1",
                "nodeType": "YulIdentifier",
                "src": "2432:3:1"
            },
            "nativeSrc": "2432:18:1",
            "nodeType": "YulFunctionCall",
            "src": "2432:18:1"
        },
```

```json
            "variableNames": [
                {
                    "name": "tail",
                    "nativeSrc": "2424:4:1",
                    "nodeType": "YulIdentifier",
                    "src": "2424:4:1"
                }
            ]
        },
        {
            "expression": {
                "arguments": [
                    {
                        "name": "value0",
                        "nativeSrc": "2504:6:1",
                        "nodeType": "YulIdentifier",
                        "src": "2504:6:1"
                    },
                    {
                        "arguments": [
                            {
                                "name": "headStart",
                                "nativeSrc": "2517:9:1",
                                "nodeType": "YulIdentifier",
                                "src": "2517:9:1"
                            },
```

```json
                    {
                        "kind": "number",

                        "nativeSrc": "2528:1:1",

                        "nodeType": "YulLiteral",

                        "src": "2528:1:1",

                        "type": "",

                        "value": "0"
                    }
                ],

                "functionName": {

                    "name": "add",

                    "nativeSrc": "2513:3:1",

                    "nodeType": "YulIdentifier",

                    "src": "2513:3:1"
                },

                "nativeSrc": "2513:17:1",

                "nodeType": "YulFunctionCall",

                "src": "2513:17:1"
            }
        ],

        "functionName": {

            "name": "abi_encode_t_address_to_t_address_fromStack",

            "nativeSrc": "2460:43:1",

            "nodeType": "YulIdentifier",

            "src": "2460:43:1"
        },
```

              "nativeSrc": "2460:71:1",

              "nodeType": "YulFunctionCall",

              "src": "2460:71:1"

            },

            "nativeSrc": "2460:71:1",

            "nodeType": "YulExpressionStatement",

            "src": "2460:71:1"

          },

          {

            "expression": {

              "arguments": [

                {

                  "name": "value1",

                  "nativeSrc": "2585:6:1",

                  "nodeType": "YulIdentifier",

                  "src": "2585:6:1"

                },

                {

                  "arguments": [

                    {

                      "name": "headStart",

                      "nativeSrc": "2598:9:1",

                      "nodeType": "YulIdentifier",

                      "src": "2598:9:1"

                    },

                    {

```json
                            "kind": "number",

                            "nativeSrc": "2609:2:1",

                            "nodeType": "YulLiteral",

                            "src": "2609:2:1",

                            "type": "",

                            "value": "32"

                        }

                    ],

                    "functionName": {

                        "name": "add",

                        "nativeSrc": "2594:3:1",

                        "nodeType": "YulIdentifier",

                        "src": "2594:3:1"

                    },

                    "nativeSrc": "2594:18:1",

                    "nodeType": "YulFunctionCall",

                    "src": "2594:18:1"

                }

            ],

            "functionName": {

                "name": "abi_encode_t_uint256_to_t_uint256_fromStack",

                "nativeSrc": "2541:43:1",

                "nodeType": "YulIdentifier",

                "src": "2541:43:1"

            },

            "nativeSrc": "2541:72:1",
```

```json
            "nodeType": "YulFunctionCall",

            "src": "2541:72:1"

        },

        "nativeSrc": "2541:72:1",

        "nodeType": "YulExpressionStatement",

        "src": "2541:72:1"

    },

    {

        "expression": {

            "arguments": [

                {

                    "name": "value2",

                    "nativeSrc": "2667:6:1",

                    "nodeType": "YulIdentifier",

                    "src": "2667:6:1"

                },

                {

                    "arguments": [

                        {

                            "name": "headStart",

                            "nativeSrc": "2680:9:1",

                            "nodeType": "YulIdentifier",

                            "src": "2680:9:1"

                        },

                        {

                            "kind": "number",
```

                    "nativeSrc": "2691:2:1",

                    "nodeType": "YulLiteral",

                    "src": "2691:2:1",

                    "type": "",

                    "value": "64"

                }

            ],

            "functionName": {

                "name": "add",

                "nativeSrc": "2676:3:1",

                "nodeType": "YulIdentifier",

                "src": "2676:3:1"

            },

            "nativeSrc": "2676:18:1",

            "nodeType": "YulFunctionCall",

            "src": "2676:18:1"

        }

    ],

    "functionName": {

        "name": "abi_encode_t_uint256_to_t_uint256_fromStack",

        "nativeSrc": "2623:43:1",

        "nodeType": "YulIdentifier",

        "src": "2623:43:1"

    },

    "nativeSrc": "2623:72:1",

    "nodeType": "YulFunctionCall",

                    "src": "2623:72:1"
                },
                "nativeSrc": "2623:72:1",
                "nodeType": "YulExpressionStatement",
                "src": "2623:72:1"
            }
        ]
    },
    "name":
"abi_encode_tuple_t_address_t_uint256_t_uint256__to_t_address_t_uint256_t_uint256__fromStack
_reversed",
    "nativeSrc": "2260:442:1",
    "nodeType": "YulFunctionDefinition",
    "parameters": [
        {
            "name": "headStart",
            "nativeSrc": "2370:9:1",
            "nodeType": "YulTypedName",
            "src": "2370:9:1",
            "type": ""
        },
        {
            "name": "value2",
            "nativeSrc": "2382:6:1",
            "nodeType": "YulTypedName",
            "src": "2382:6:1",

```json
        "type": ""
      },
      {
        "name": "value1",
        "nativeSrc": "2390:6:1",
        "nodeType": "YulTypedName",
        "src": "2390:6:1",
        "type": ""
      },
      {
        "name": "value0",
        "nativeSrc": "2398:6:1",
        "nodeType": "YulTypedName",
        "src": "2398:6:1",
        "type": ""
      }
    ],
    "returnVariables": [
      {
        "name": "tail",
        "nativeSrc": "2409:4:1",
        "nodeType": "YulTypedName",
        "src": "2409:4:1",
        "type": ""
      }
    ],
```

                    "src": "2260:442:1"
                },
                {
                    "body": {
                        "nativeSrc": "2774:263:1",
                        "nodeType": "YulBlock",
                        "src": "2774:263:1",
                        "statements": [
                            {
                                "body": {
                                    "nativeSrc": "2820:83:1",
                                    "nodeType": "YulBlock",
                                    "src": "2820:83:1",
                                    "statements": [
                                        {
                                            "expression": {
                                                "arguments": [],
                                                "functionName": {
                                                    "name": "revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b",
                                                    "nativeSrc": "2822:77:1",
                                                    "nodeType": "YulIdentifier",
                                                    "src": "2822:77:1"
                                                },
                                                "nativeSrc": "2822:79:1",
                                                "nodeType": "YulFunctionCall",

```json
              "src": "2822:79:1"
            },
            "nativeSrc": "2822:79:1",
            "nodeType": "YulExpressionStatement",
            "src": "2822:79:1"
          }
        ]
      },
      "condition": {
        "arguments": [
          {
            "arguments": [
              {
                "name": "dataEnd",
                "nativeSrc": "2795:7:1",
                "nodeType": "YulIdentifier",
                "src": "2795:7:1"
              },
              {
                "name": "headStart",
                "nativeSrc": "2804:9:1",
                "nodeType": "YulIdentifier",
                "src": "2804:9:1"
              }
            ],
            "functionName": {
```

```json
            "name": "sub",

            "nativeSrc": "2791:3:1",

            "nodeType": "YulIdentifier",

            "src": "2791:3:1"

          },

          "nativeSrc": "2791:23:1",

          "nodeType": "YulFunctionCall",

          "src": "2791:23:1"

        },

        {

          "kind": "number",

          "nativeSrc": "2816:2:1",

          "nodeType": "YulLiteral",

          "src": "2816:2:1",

          "type": "",

          "value": "32"

        }

      ],

      "functionName": {

        "name": "slt",

        "nativeSrc": "2787:3:1",

        "nodeType": "YulIdentifier",

        "src": "2787:3:1"

      },

      "nativeSrc": "2787:32:1",

      "nodeType": "YulFunctionCall",
```

```json
          "src": "2787:32:1"
        },
        "nativeSrc": "2784:119:1",
        "nodeType": "YulIf",
        "src": "2784:119:1"
      },
      {
        "nativeSrc": "2913:117:1",
        "nodeType": "YulBlock",
        "src": "2913:117:1",
        "statements": [
          {
            "nativeSrc": "2928:15:1",
            "nodeType": "YulVariableDeclaration",
            "src": "2928:15:1",
            "value": {
              "kind": "number",
              "nativeSrc": "2942:1:1",
              "nodeType": "YulLiteral",
              "src": "2942:1:1",
              "type": "",
              "value": "0"
            },
            "variables": [
              {
                "name": "offset",
```

```json
                    "nativeSrc": "2932:6:1",

                    "nodeType": "YulTypedName",

                    "src": "2932:6:1",

                    "type": ""

                }

            ]

        },

        {

            "nativeSrc": "2957:63:1",

            "nodeType": "YulAssignment",

            "src": "2957:63:1",

            "value": {

                "arguments": [

                    {

                        "arguments": [

                            {

                                "name": "headStart",

                                "nativeSrc": "2992:9:1",

                                "nodeType": "YulIdentifier",

                                "src": "2992:9:1"

                            },

                            {

                                "name": "offset",

                                "nativeSrc": "3003:6:1",

                                "nodeType": "YulIdentifier",

                                "src": "3003:6:1"
```

```json
                }
              ],
              "functionName": {
                "name": "add",
                "nativeSrc": "2988:3:1",
                "nodeType": "YulIdentifier",
                "src": "2988:3:1"
              },
              "nativeSrc": "2988:22:1",
              "nodeType": "YulFunctionCall",
              "src": "2988:22:1"
            },
            {
              "name": "dataEnd",
              "nativeSrc": "3012:7:1",
              "nodeType": "YulIdentifier",
              "src": "3012:7:1"
            }
          ],
          "functionName": {
            "name": "abi_decode_t_address",
            "nativeSrc": "2967:20:1",
            "nodeType": "YulIdentifier",
            "src": "2967:20:1"
          },
          "nativeSrc": "2967:53:1",
```

```json
                    "nodeType": "YulFunctionCall",

                    "src": "2967:53:1"

                  },

                  "variableNames": [

                    {

                      "name": "value0",

                      "nativeSrc": "2957:6:1",

                      "nodeType": "YulIdentifier",

                      "src": "2957:6:1"

                    }

                  ]

                }

              ]

            }

          ]

        },

        "name": "abi_decode_tuple_t_address",

        "nativeSrc": "2708:329:1",

        "nodeType": "YulFunctionDefinition",

        "parameters": [

          {

            "name": "headStart",

            "nativeSrc": "2744:9:1",

            "nodeType": "YulTypedName",

            "src": "2744:9:1",

            "type": ""
```

```json
        },
        {
          "name": "dataEnd",
          "nativeSrc": "2755:7:1",
          "nodeType": "YulTypedName",
          "src": "2755:7:1",
          "type": ""
        }
      ],
      "returnVariables": [
        {
          "name": "value0",
          "nativeSrc": "2767:6:1",
          "nodeType": "YulTypedName",
          "src": "2767:6:1",
          "type": ""
        }
      ],
      "src": "2708:329:1"
    },
    {
      "body": {
        "nativeSrc": "3169:206:1",
        "nodeType": "YulBlock",
        "src": "3169:206:1",
        "statements": [
```

```json
{
    "nativeSrc": "3179:26:1",
    "nodeType": "YulAssignment",
    "src": "3179:26:1",
    "value": {
        "arguments": [
            {
                "name": "headStart",
                "nativeSrc": "3191:9:1",
                "nodeType": "YulIdentifier",
                "src": "3191:9:1"
            },
            {
                "kind": "number",
                "nativeSrc": "3202:2:1",
                "nodeType": "YulLiteral",
                "src": "3202:2:1",
                "type": "",
                "value": "64"
            }
        ],
        "functionName": {
            "name": "add",
            "nativeSrc": "3187:3:1",
            "nodeType": "YulIdentifier",
            "src": "3187:3:1"
```

```json
        },
        "nativeSrc": "3187:18:1",
        "nodeType": "YulFunctionCall",
        "src": "3187:18:1"
      },
      "variableNames": [
        {
          "name": "tail",
          "nativeSrc": "3179:4:1",
          "nodeType": "YulIdentifier",
          "src": "3179:4:1"
        }
      ]
    },
    {
      "expression": {
        "arguments": [
          {
            "name": "value0",
            "nativeSrc": "3259:6:1",
            "nodeType": "YulIdentifier",
            "src": "3259:6:1"
          },
          {
            "arguments": [
              {
```

                    "name": "headStart",

                    "nativeSrc": "3272:9:1",

                    "nodeType": "YulIdentifier",

                    "src": "3272:9:1"

                },

                {

                    "kind": "number",

                    "nativeSrc": "3283:1:1",

                    "nodeType": "YulLiteral",

                    "src": "3283:1:1",

                    "type": "",

                    "value": "0"

                }

            ],

            "functionName": {

                "name": "add",

                "nativeSrc": "3268:3:1",

                "nodeType": "YulIdentifier",

                "src": "3268:3:1"

            },

            "nativeSrc": "3268:17:1",

            "nodeType": "YulFunctionCall",

            "src": "3268:17:1"

        }

    ],

    "functionName": {

```json
                    "name": "abi_encode_t_uint256_to_t_uint256_fromStack",

                    "nativeSrc": "3215:43:1",

                    "nodeType": "YulIdentifier",

                    "src": "3215:43:1"

                },

                "nativeSrc": "3215:71:1",

                "nodeType": "YulFunctionCall",

                "src": "3215:71:1"

            },

            "nativeSrc": "3215:71:1",

            "nodeType": "YulExpressionStatement",

            "src": "3215:71:1"

        },

        {

            "expression": {

                "arguments": [

                    {

                        "name": "value1",

                        "nativeSrc": "3340:6:1",

                        "nodeType": "YulIdentifier",

                        "src": "3340:6:1"

                    },

                    {

                        "arguments": [

                            {

                                "name": "headStart",
```

```json
                    "nativeSrc": "3353:9:1",

                    "nodeType": "YulIdentifier",

                    "src": "3353:9:1"

                },
                {

                    "kind": "number",

                    "nativeSrc": "3364:2:1",

                    "nodeType": "YulLiteral",

                    "src": "3364:2:1",

                    "type": "",

                    "value": "32"

                }

            ],

            "functionName": {

                "name": "add",

                "nativeSrc": "3349:3:1",

                "nodeType": "YulIdentifier",

                "src": "3349:3:1"

            },

            "nativeSrc": "3349:18:1",

            "nodeType": "YulFunctionCall",

            "src": "3349:18:1"

        }

    ],

    "functionName": {

        "name": "abi_encode_t_uint256_to_t_uint256_fromStack",
```

                            "nativeSrc": "3296:43:1",

                            "nodeType": "YulIdentifier",

                            "src": "3296:43:1"

                        },

                        "nativeSrc": "3296:72:1",

                        "nodeType": "YulFunctionCall",

                        "src": "3296:72:1"

                    },

                    "nativeSrc": "3296:72:1",

                    "nodeType": "YulExpressionStatement",

                    "src": "3296:72:1"

                }

            ]

        },

                                                        "name":

"abi_encode_tuple_t_uint256_t_uint256__to_t_uint256_t_uint256__fromStack_reversed",

                "nativeSrc": "3043:332:1",

                "nodeType": "YulFunctionDefinition",

                "parameters": [

                    {

                        "name": "headStart",

                        "nativeSrc": "3133:9:1",

                        "nodeType": "YulTypedName",

                        "src": "3133:9:1",

                        "type": ""

                    },

```
                {
                    "name": "value1",

                    "nativeSrc": "3145:6:1",

                    "nodeType": "YulTypedName",

                    "src": "3145:6:1",

                    "type": ""
                },
                {
                    "name": "value0",

                    "nativeSrc": "3153:6:1",

                    "nodeType": "YulTypedName",

                    "src": "3153:6:1",

                    "type": ""
                }
            ],

            "returnVariables": [
                {
                    "name": "tail",

                    "nativeSrc": "3164:4:1",

                    "nodeType": "YulTypedName",

                    "src": "3164:4:1",

                    "type": ""
                }
            ],

            "src": "3043:332:1"
        },
```

```json
{
    "body": {
        "nativeSrc": "3479:124:1",
        "nodeType": "YulBlock",
        "src": "3479:124:1",
        "statements": [
            {
                "nativeSrc": "3489:26:1",
                "nodeType": "YulAssignment",
                "src": "3489:26:1",
                "value": {
                    "arguments": [
                        {
                            "name": "headStart",
                            "nativeSrc": "3501:9:1",
                            "nodeType": "YulIdentifier",
                            "src": "3501:9:1"
                        },
                        {
                            "kind": "number",
                            "nativeSrc": "3512:2:1",
                            "nodeType": "YulLiteral",
                            "src": "3512:2:1",
                            "type": "",
                            "value": "32"
                        }
```

```
          ],
          "functionName": {
            "name": "add",
            "nativeSrc": "3497:3:1",
            "nodeType": "YulIdentifier",
            "src": "3497:3:1"
          },
          "nativeSrc": "3497:18:1",
          "nodeType": "YulFunctionCall",
          "src": "3497:18:1"
        },
        "variableNames": [
          {
            "name": "tail",
            "nativeSrc": "3489:4:1",
            "nodeType": "YulIdentifier",
            "src": "3489:4:1"
          }
        ]
      },
      {
        "expression": {
          "arguments": [
            {
              "name": "value0",
              "nativeSrc": "3569:6:1",
```

```json
        "nodeType": "YulIdentifier",

        "src": "3569:6:1"

      },

      {

        "arguments": [

          {

            "name": "headStart",

            "nativeSrc": "3582:9:1",

            "nodeType": "YulIdentifier",

            "src": "3582:9:1"

          },

          {

            "kind": "number",

            "nativeSrc": "3593:1:1",

            "nodeType": "YulLiteral",

            "src": "3593:1:1",

            "type": "",

            "value": "0"

          }

        ],

        "functionName": {

          "name": "add",

          "nativeSrc": "3578:3:1",

          "nodeType": "YulIdentifier",

          "src": "3578:3:1"

        },
```

                    "nativeSrc": "3578:17:1",

                    "nodeType": "YulFunctionCall",

                    "src": "3578:17:1"

                  }

                ],

                "functionName": {

                  "name": "abi_encode_t_uint256_to_t_uint256_fromStack",

                  "nativeSrc": "3525:43:1",

                  "nodeType": "YulIdentifier",

                  "src": "3525:43:1"

                },

                "nativeSrc": "3525:71:1",

                "nodeType": "YulFunctionCall",

                "src": "3525:71:1"

              },

              "nativeSrc": "3525:71:1",

              "nodeType": "YulExpressionStatement",

              "src": "3525:71:1"

            }

          ]

        },

        "name": "abi_encode_tuple_t_uint256__to_t_uint256__fromStack_reversed",

        "nativeSrc": "3381:222:1",

        "nodeType": "YulFunctionDefinition",

        "parameters": [

          {

```json
                "name": "headStart",

                "nativeSrc": "3451:9:1",

                "nodeType": "YulTypedName",

                "src": "3451:9:1",

                "type": ""

            },

            {

                "name": "value0",

                "nativeSrc": "3463:6:1",

                "nodeType": "YulTypedName",

                "src": "3463:6:1",

                "type": ""

            }

        ],

        "returnVariables": [

            {

                "name": "tail",

                "nativeSrc": "3474:4:1",

                "nodeType": "YulTypedName",

                "src": "3474:4:1",

                "type": ""

            }

        ],

        "src": "3381:222:1"

    },

    {
```

```json
"body": {
    "nativeSrc": "3664:53:1",
    "nodeType": "YulBlock",
    "src": "3664:53:1",
    "statements": [
        {
            "expression": {
                "arguments": [
                    {
                        "name": "pos",
                        "nativeSrc": "3681:3:1",
                        "nodeType": "YulIdentifier",
                        "src": "3681:3:1"
                    },
                    {
                        "arguments": [
                            {
                                "name": "value",
                                "nativeSrc": "3704:5:1",
                                "nodeType": "YulIdentifier",
                                "src": "3704:5:1"
                            }
                        ],
                        "functionName": {
                            "name": "cleanup_t_uint256",
                            "nativeSrc": "3686:17:1",
```

                    "nodeType": "YulIdentifier",

                    "src": "3686:17:1"

                  },

                  "nativeSrc": "3686:24:1",

                  "nodeType": "YulFunctionCall",

                  "src": "3686:24:1"

                }

              ],

              "functionName": {

                "name": "mstore",

                "nativeSrc": "3674:6:1",

                "nodeType": "YulIdentifier",

                "src": "3674:6:1"

              },

              "nativeSrc": "3674:37:1",

              "nodeType": "YulFunctionCall",

              "src": "3674:37:1"

            },

            "nativeSrc": "3674:37:1",

            "nodeType": "YulExpressionStatement",

            "src": "3674:37:1"

          }

        ]

      },

      "name": "abi_encode_t_uint256_to_t_uint256",

      "nativeSrc": "3609:108:1",

          "nodeType": "YulFunctionDefinition",

          "parameters": [

            {

              "name": "value",

              "nativeSrc": "3652:5:1",

              "nodeType": "YulTypedName",

              "src": "3652:5:1",

              "type": ""

            },

            {

              "name": "pos",

              "nativeSrc": "3659:3:1",

              "nodeType": "YulTypedName",

              "src": "3659:3:1",

              "type": ""

            }

          ],

          "src": "3609:108:1"

        },

        {

          "body": {

            "nativeSrc": "3915:411:1",

            "nodeType": "YulBlock",

            "src": "3915:411:1",

            "statements": [

              {

"nativeSrc": "3925:26:1",

"nodeType": "YulVariableDeclaration",

"src": "3925:26:1",

"value": {

  "arguments": [

    {

      "name": "pos",

      "nativeSrc": "3941:3:1",

      "nodeType": "YulIdentifier",

      "src": "3941:3:1"

    },

    {

      "kind": "number",

      "nativeSrc": "3946:4:1",

      "nodeType": "YulLiteral",

      "src": "3946:4:1",

      "type": "",

      "value": "0x40"

    }

  ],

  "functionName": {

    "name": "add",

    "nativeSrc": "3937:3:1",

    "nodeType": "YulIdentifier",

    "src": "3937:3:1"

  },

```json
          "nativeSrc": "3937:14:1",

          "nodeType": "YulFunctionCall",

          "src": "3937:14:1"

        },

        "variables": [

          {

            "name": "tail",

            "nativeSrc": "3929:4:1",

            "nodeType": "YulTypedName",

            "src": "3929:4:1",

            "type": ""

          }

        ]

      },

      {

        "nativeSrc": "3961:174:1",

        "nodeType": "YulBlock",

        "src": "3961:174:1",

        "statements": [

          {

            "nativeSrc": "4006:43:1",

            "nodeType": "YulVariableDeclaration",

            "src": "4006:43:1",

            "value": {

              "arguments": [

                {
```

"arguments": [

    {

        "name": "value",

        "nativeSrc": "4036:5:1",

        "nodeType": "YulIdentifier",

        "src": "4036:5:1"

    },

    {

        "kind": "number",

        "nativeSrc": "4043:4:1",

        "nodeType": "YulLiteral",

        "src": "4043:4:1",

        "type": "",

        "value": "0x00"

    }

],

"functionName": {

    "name": "add",

    "nativeSrc": "4032:3:1",

    "nodeType": "YulIdentifier",

    "src": "4032:3:1"

},

"nativeSrc": "4032:16:1",

"nodeType": "YulFunctionCall",

"src": "4032:16:1"

}

          ],

          "functionName": {

            "name": "mload",

            "nativeSrc": "4026:5:1",

            "nodeType": "YulIdentifier",

            "src": "4026:5:1"

          },

          "nativeSrc": "4026:23:1",

          "nodeType": "YulFunctionCall",

          "src": "4026:23:1"

        },

        "variables": [

          {

            "name": "memberValue0",

            "nativeSrc": "4010:12:1",

            "nodeType": "YulTypedName",

            "src": "4010:12:1",

            "type": ""

          }

        ]

      },

      {

        "expression": {

          "arguments": [

            {

              "name": "memberValue0",

```json
            "nativeSrc": "4096:12:1",

            "nodeType": "YulIdentifier",

            "src": "4096:12:1"

        },

        {

            "arguments": [

                {

                    "name": "pos",

                    "nativeSrc": "4114:3:1",

                    "nodeType": "YulIdentifier",

                    "src": "4114:3:1"

                },

                {

                    "kind": "number",

                    "nativeSrc": "4119:4:1",

                    "nodeType": "YulLiteral",

                    "src": "4119:4:1",

                    "type": "",

                    "value": "0x00"

                }

            ],

            "functionName": {

                "name": "add",

                "nativeSrc": "4110:3:1",

                "nodeType": "YulIdentifier",

                "src": "4110:3:1"
```

```
                    },
                    "nativeSrc": "4110:14:1",
                    "nodeType": "YulFunctionCall",
                    "src": "4110:14:1"
                  }
                ],
                "functionName": {
                  "name": "abi_encode_t_uint256_to_t_uint256",
                  "nativeSrc": "4062:33:1",
                  "nodeType": "YulIdentifier",
                  "src": "4062:33:1"
                },
                "nativeSrc": "4062:63:1",
                "nodeType": "YulFunctionCall",
                "src": "4062:63:1"
              },
              "nativeSrc": "4062:63:1",
              "nodeType": "YulExpressionStatement",
              "src": "4062:63:1"
            }
          ]
        },
        {
          "nativeSrc": "4145:174:1",
          "nodeType": "YulBlock",
          "src": "4145:174:1",
```

```json
"statements": [
  {
    "nativeSrc": "4190:43:1",
    "nodeType": "YulVariableDeclaration",
    "src": "4190:43:1",
    "value": {
      "arguments": [
        {
          "arguments": [
            {
              "name": "value",
              "nativeSrc": "4220:5:1",
              "nodeType": "YulIdentifier",
              "src": "4220:5:1"
            },
            {
              "kind": "number",
              "nativeSrc": "4227:4:1",
              "nodeType": "YulLiteral",
              "src": "4227:4:1",
              "type": "",
              "value": "0x20"
            }
          ],
          "functionName": {
            "name": "add",
```

```json
                    "nativeSrc": "4216:3:1",

                    "nodeType": "YulIdentifier",

                    "src": "4216:3:1"

                },

                "nativeSrc": "4216:16:1",

                "nodeType": "YulFunctionCall",

                "src": "4216:16:1"

            }

        ],

        "functionName": {

            "name": "mload",

            "nativeSrc": "4210:5:1",

            "nodeType": "YulIdentifier",

            "src": "4210:5:1"

        },

        "nativeSrc": "4210:23:1",

        "nodeType": "YulFunctionCall",

        "src": "4210:23:1"

    },

    "variables": [

        {

            "name": "memberValue0",

            "nativeSrc": "4194:12:1",

            "nodeType": "YulTypedName",

            "src": "4194:12:1",

            "type": ""
```

```json
                    }
                ]
            },
            {
                "expression": {
                    "arguments": [
                        {
                            "name": "memberValue0",
                            "nativeSrc": "4280:12:1",
                            "nodeType": "YulIdentifier",
                            "src": "4280:12:1"
                        },
                        {
                            "arguments": [
                                {
                                    "name": "pos",
                                    "nativeSrc": "4298:3:1",
                                    "nodeType": "YulIdentifier",
                                    "src": "4298:3:1"
                                },
                                {
                                    "kind": "number",
                                    "nativeSrc": "4303:4:1",
                                    "nodeType": "YulLiteral",
                                    "src": "4303:4:1",
                                    "type": "",
```

                    "value": "0x20"

                }

            ],

            "functionName": {

                "name": "add",

                "nativeSrc": "4294:3:1",

                "nodeType": "YulIdentifier",

                "src": "4294:3:1"

            },

            "nativeSrc": "4294:14:1",

            "nodeType": "YulFunctionCall",

            "src": "4294:14:1"

        }

    ],

    "functionName": {

        "name": "abi_encode_t_uint256_to_t_uint256",

        "nativeSrc": "4246:33:1",

        "nodeType": "YulIdentifier",

        "src": "4246:33:1"

    },

    "nativeSrc": "4246:63:1",

    "nodeType": "YulFunctionCall",

    "src": "4246:63:1"

},

"nativeSrc": "4246:63:1",

"nodeType": "YulExpressionStatement",

                                        "src": "4246:63:1"

                                    }

                                ]

                            }

                        ]

                    },

                                                            "name":

"abi_encode_t_struct$_Ledger_$7_memory_ptr_to_t_struct$_Ledger_$7_memory_ptr_fromStack",

                        "nativeSrc": "3807:519:1",

                        "nodeType": "YulFunctionDefinition",

                        "parameters": [

                            {

                                "name": "value",

                                "nativeSrc": "3902:5:1",

                                "nodeType": "YulTypedName",

                                "src": "3902:5:1",

                                "type": ""

                            },

                            {

                                "name": "pos",

                                "nativeSrc": "3909:3:1",

                                "nodeType": "YulTypedName",

                                "src": "3909:3:1",

                                "type": ""

                            }

                        ],

```json
      "src": "3807:519:1"
    },
    {
      "body": {
        "nativeSrc": "4472:166:1",
        "nodeType": "YulBlock",
        "src": "4472:166:1",
        "statements": [
          {
            "nativeSrc": "4482:26:1",
            "nodeType": "YulAssignment",
            "src": "4482:26:1",
            "value": {
              "arguments": [
                {
                  "name": "headStart",
                  "nativeSrc": "4494:9:1",
                  "nodeType": "YulIdentifier",
                  "src": "4494:9:1"
                },
                {
                  "kind": "number",
                  "nativeSrc": "4505:2:1",
                  "nodeType": "YulLiteral",
                  "src": "4505:2:1",
                  "type": "",
```

```json
            "value": "64"
          }
        ],
        "functionName": {
          "name": "add",
          "nativeSrc": "4490:3:1",
          "nodeType": "YulIdentifier",
          "src": "4490:3:1"
        },
        "nativeSrc": "4490:18:1",
        "nodeType": "YulFunctionCall",
        "src": "4490:18:1"
      },
      "variableNames": [
        {
          "name": "tail",
          "nativeSrc": "4482:4:1",
          "nodeType": "YulIdentifier",
          "src": "4482:4:1"
        }
      ]
    },
    {
      "expression": {
        "arguments": [
          {
```

```json
      "name": "value0",

      "nativeSrc": "4604:6:1",

      "nodeType": "YulIdentifier",

      "src": "4604:6:1"

    },

    {

      "arguments": [

        {

          "name": "headStart",

          "nativeSrc": "4617:9:1",

          "nodeType": "YulIdentifier",

          "src": "4617:9:1"

        },

        {

          "kind": "number",

          "nativeSrc": "4628:1:1",

          "nodeType": "YulLiteral",

          "src": "4628:1:1",

          "type": "",

          "value": "0"

        }

      ],

      "functionName": {

        "name": "add",

        "nativeSrc": "4613:3:1",

        "nodeType": "YulIdentifier",
```

                                "src": "4613:3:1"

                            },

                            "nativeSrc": "4613:17:1",

                            "nodeType": "YulFunctionCall",

                            "src": "4613:17:1"

                        }

                    ],

                    "functionName": {

                                                        "name":

"abi_encode_t_struct$_Ledger_$7_memory_ptr_to_t_struct$_Ledger_$7_memory_ptr_fromStack",

                        "nativeSrc": "4518:85:1",

                        "nodeType": "YulIdentifier",

                        "src": "4518:85:1"

                    },

                    "nativeSrc": "4518:113:1",

                    "nodeType": "YulFunctionCall",

                    "src": "4518:113:1"

                },

                "nativeSrc": "4518:113:1",

                "nodeType": "YulExpressionStatement",

                "src": "4518:113:1"

            }

        ]

    },

                                                        "name":

"abi_encode_tuple_t_struct$_Ledger_$7_memory_ptr__to_t_struct$_Ledger_$7_memory_ptr__fro

mStack_reversed",

  "nativeSrc": "4332:306:1",

  "nodeType": "YulFunctionDefinition",

  "parameters": [

   {

    "name": "headStart",

    "nativeSrc": "4444:9:1",

    "nodeType": "YulTypedName",

    "src": "4444:9:1",

    "type": ""

   },

   {

    "name": "value0",

    "nativeSrc": "4456:6:1",

    "nodeType": "YulTypedName",

    "src": "4456:6:1",

    "type": ""

   }

  ],

  "returnVariables": [

   {

    "name": "tail",

    "nativeSrc": "4467:4:1",

    "nodeType": "YulTypedName",

    "src": "4467:4:1",

    "type": ""

```json
          }
        ],
        "src": "4332:306:1"
      },
      {
        "body": {
          "nativeSrc": "4740:73:1",
          "nodeType": "YulBlock",
          "src": "4740:73:1",
          "statements": [
            {
              "expression": {
                "arguments": [
                  {
                    "name": "pos",
                    "nativeSrc": "4757:3:1",
                    "nodeType": "YulIdentifier",
                    "src": "4757:3:1"
                  },
                  {
                    "name": "length",
                    "nativeSrc": "4762:6:1",
                    "nodeType": "YulIdentifier",
                    "src": "4762:6:1"
                  }
                ],
```

```json
            "functionName": {
              "name": "mstore",
              "nativeSrc": "4750:6:1",
              "nodeType": "YulIdentifier",
              "src": "4750:6:1"
            },
            "nativeSrc": "4750:19:1",
            "nodeType": "YulFunctionCall",
            "src": "4750:19:1"
          },
          "nativeSrc": "4750:19:1",
          "nodeType": "YulExpressionStatement",
          "src": "4750:19:1"
        },
        {
          "nativeSrc": "4778:29:1",
          "nodeType": "YulAssignment",
          "src": "4778:29:1",
          "value": {
            "arguments": [
              {
                "name": "pos",
                "nativeSrc": "4797:3:1",
                "nodeType": "YulIdentifier",
                "src": "4797:3:1"
              },
```

```json
      {
        "kind": "number",

        "nativeSrc": "4802:4:1",

        "nodeType": "YulLiteral",

        "src": "4802:4:1",

        "type": "",

        "value": "0x20"

      }

    ],

    "functionName": {

      "name": "add",

      "nativeSrc": "4793:3:1",

      "nodeType": "YulIdentifier",

      "src": "4793:3:1"

    },

    "nativeSrc": "4793:14:1",

    "nodeType": "YulFunctionCall",

    "src": "4793:14:1"

  },

  "variableNames": [

    {

      "name": "updated_pos",

      "nativeSrc": "4778:11:1",

      "nodeType": "YulIdentifier",

      "src": "4778:11:1"

    }
```

```json
        ]
      }
    ]
  },
  "name": "array_storeLengthForEncoding_t_string_memory_ptr_fromStack",
  "nativeSrc": "4644:169:1",
  "nodeType": "YulFunctionDefinition",
  "parameters": [
    {
      "name": "pos",
      "nativeSrc": "4712:3:1",
      "nodeType": "YulTypedName",
      "src": "4712:3:1",
      "type": ""
    },
    {
      "name": "length",
      "nativeSrc": "4717:6:1",
      "nodeType": "YulTypedName",
      "src": "4717:6:1",
      "type": ""
    }
  ],
  "returnVariables": [
    {
      "name": "updated_pos",
```

```json
            "nativeSrc": "4728:11:1",

            "nodeType": "YulTypedName",

            "src": "4728:11:1",

            "type": ""

          }

        ],

        "src": "4644:169:1"

      },

      {

        "body": {

          "nativeSrc": "4925:73:1",

          "nodeType": "YulBlock",

          "src": "4925:73:1",

          "statements": [

            {

              "expression": {

                "arguments": [

                  {

                    "arguments": [

                      {

                        "name": "memPtr",

                        "nativeSrc": "4947:6:1",

                        "nodeType": "YulIdentifier",

                        "src": "4947:6:1"

                      },

                      {
```

                    "kind": "number",

                    "nativeSrc": "4955:1:1",

                    "nodeType": "YulLiteral",

                    "src": "4955:1:1",

                    "type": "",

                    "value": "0"

                  }

                ],

                "functionName": {

                  "name": "add",

                  "nativeSrc": "4943:3:1",

                  "nodeType": "YulIdentifier",

                  "src": "4943:3:1"

                },

                "nativeSrc": "4943:14:1",

                "nodeType": "YulFunctionCall",

                "src": "4943:14:1"

              },

              {

                                                                "hexValue":

"496e737566666963696656e74206d61696e6e65742062616c616e63652e",

                "kind": "string",

                "nativeSrc": "4959:31:1",

                "nodeType": "YulLiteral",

                "src": "4959:31:1",

                "type": "",

```json
                              "value": "Insufficient mainnet balance."
                            }
                          ],
                          "functionName": {
                            "name": "mstore",
                            "nativeSrc": "4936:6:1",
                            "nodeType": "YulIdentifier",
                            "src": "4936:6:1"
                          },
                          "nativeSrc": "4936:55:1",
                          "nodeType": "YulFunctionCall",
                          "src": "4936:55:1"
                        },
                        "nativeSrc": "4936:55:1",
                        "nodeType": "YulExpressionStatement",
                        "src": "4936:55:1"
                      }
                    ]
                  },
                  "name": "store_literal_in_memory_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf45",
                  "nativeSrc": "4819:179:1",
                  "nodeType": "YulFunctionDefinition",
                  "parameters": [
                    {
```

```json
          "name": "memPtr",

          "nativeSrc": "4917:6:1",

          "nodeType": "YulTypedName",

          "src": "4917:6:1",

          "type": ""

        }

      ],

      "src": "4819:179:1"

    },

    {

      "body": {

        "nativeSrc": "5150:220:1",

        "nodeType": "YulBlock",

        "src": "5150:220:1",

        "statements": [

          {

            "nativeSrc": "5160:74:1",

            "nodeType": "YulAssignment",

            "src": "5160:74:1",

            "value": {

              "arguments": [

                {

                  "name": "pos",

                  "nativeSrc": "5226:3:1",

                  "nodeType": "YulIdentifier",

                  "src": "5226:3:1"
```

                    },
                    {
                        "kind": "number",
                        "nativeSrc": "5231:2:1",
                        "nodeType": "YulLiteral",
                        "src": "5231:2:1",
                        "type": "",
                        "value": "29"
                    }
                ],
                "functionName": {
                                                    "name":
"array_storeLengthForEncoding_t_string_memory_ptr_fromStack",
                    "nativeSrc": "5167:58:1",
                    "nodeType": "YulIdentifier",
                    "src": "5167:58:1"
                },
                "nativeSrc": "5167:67:1",
                "nodeType": "YulFunctionCall",
                "src": "5167:67:1"
            },
            "variableNames": [
                {
                    "name": "pos",
                    "nativeSrc": "5160:3:1",
                    "nodeType": "YulIdentifier",

```
                    "src": "5160:3:1"

                }

            ]

        },

        {

            "expression": {

                "arguments": [

                    {

                        "name": "pos",

                        "nativeSrc": "5332:3:1",

                        "nodeType": "YulIdentifier",

                        "src": "5332:3:1"

                    }

                ],

                "functionName": {

                                                            "name":
"store_literal_in_memory_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf
45",

                    "nativeSrc": "5243:88:1",

                    "nodeType": "YulIdentifier",

                    "src": "5243:88:1"

                },

                "nativeSrc": "5243:93:1",

                "nodeType": "YulFunctionCall",

                "src": "5243:93:1"

            },
```

```json
          "nativeSrc": "5243:93:1",

          "nodeType": "YulExpressionStatement",

          "src": "5243:93:1"

      },

      {

          "nativeSrc": "5345:19:1",

          "nodeType": "YulAssignment",

          "src": "5345:19:1",

          "value": {

              "arguments": [

                  {

                      "name": "pos",

                      "nativeSrc": "5356:3:1",

                      "nodeType": "YulIdentifier",

                      "src": "5356:3:1"

                  },

                  {

                      "kind": "number",

                      "nativeSrc": "5361:2:1",

                      "nodeType": "YulLiteral",

                      "src": "5361:2:1",

                      "type": "",

                      "value": "32"

                  }

              ],

              "functionName": {
```

                    "name": "add",

                    "nativeSrc": "5352:3:1",

                    "nodeType": "YulIdentifier",

                    "src": "5352:3:1"

                  },

                  "nativeSrc": "5352:12:1",

                  "nodeType": "YulFunctionCall",

                  "src": "5352:12:1"

                },

                "variableNames": [

                  {

                    "name": "end",

                    "nativeSrc": "5345:3:1",

                    "nodeType": "YulIdentifier",

                    "src": "5345:3:1"

                  }

                ]

              }

            ]

          },

                                                      "name":

"abi_encode_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008

cf45_to_t_string_memory_ptr_fromStack",

            "nativeSrc": "5004:366:1",

            "nodeType": "YulFunctionDefinition",

            "parameters": [

```json
          {
            "name": "pos",

            "nativeSrc": "5138:3:1",

            "nodeType": "YulTypedName",

            "src": "5138:3:1",

            "type": ""
          }
        ],

        "returnVariables": [
          {
            "name": "end",

            "nativeSrc": "5146:3:1",

            "nodeType": "YulTypedName",

            "src": "5146:3:1",

            "type": ""
          }
        ],

        "src": "5004:366:1"
      },
      {
        "body": {
          "nativeSrc": "5547:248:1",

          "nodeType": "YulBlock",

          "src": "5547:248:1",

          "statements": [
            {
```

```json
"nativeSrc": "5557:26:1",
"nodeType": "YulAssignment",
"src": "5557:26:1",
"value": {
    "arguments": [
        {
            "name": "headStart",
            "nativeSrc": "5569:9:1",
            "nodeType": "YulIdentifier",
            "src": "5569:9:1"
        },
        {
            "kind": "number",
            "nativeSrc": "5580:2:1",
            "nodeType": "YulLiteral",
            "src": "5580:2:1",
            "type": "",
            "value": "32"
        }
    ],
    "functionName": {
        "name": "add",
        "nativeSrc": "5565:3:1",
        "nodeType": "YulIdentifier",
        "src": "5565:3:1"
    },
```

```
                "nativeSrc": "5565:18:1",

                "nodeType": "YulFunctionCall",

                "src": "5565:18:1"

            },

            "variableNames": [

                {

                    "name": "tail",

                    "nativeSrc": "5557:4:1",

                    "nodeType": "YulIdentifier",

                    "src": "5557:4:1"

                }

            ]

        },

        {

            "expression": {

                "arguments": [

                    {

                        "arguments": [

                            {

                                "name": "headStart",

                                "nativeSrc": "5604:9:1",

                                "nodeType": "YulIdentifier",

                                "src": "5604:9:1"

                            },

                            {

                                "kind": "number",
```

                "nativeSrc": "5615:1:1",

                "nodeType": "YulLiteral",

                "src": "5615:1:1",

                "type": "",

                "value": "0"

              }

            ],

            "functionName": {

              "name": "add",

              "nativeSrc": "5600:3:1",

              "nodeType": "YulIdentifier",

              "src": "5600:3:1"

            },

            "nativeSrc": "5600:17:1",

            "nodeType": "YulFunctionCall",

            "src": "5600:17:1"

          },

          {

            "arguments": [

              {

                "name": "tail",

                "nativeSrc": "5623:4:1",

                "nodeType": "YulIdentifier",

                "src": "5623:4:1"

              },

              {

```json
                        "name": "headStart",

                        "nativeSrc": "5629:9:1",

                        "nodeType": "YulIdentifier",

                        "src": "5629:9:1"

                    }

                ],

                "functionName": {

                    "name": "sub",

                    "nativeSrc": "5619:3:1",

                    "nodeType": "YulIdentifier",

                    "src": "5619:3:1"

                },

                "nativeSrc": "5619:20:1",

                "nodeType": "YulFunctionCall",

                "src": "5619:20:1"

            }

        ],

        "functionName": {

            "name": "mstore",

            "nativeSrc": "5593:6:1",

            "nodeType": "YulIdentifier",

            "src": "5593:6:1"

        },

        "nativeSrc": "5593:47:1",

        "nodeType": "YulFunctionCall",

        "src": "5593:47:1"
```

                },

                "nativeSrc": "5593:47:1",

                "nodeType": "YulExpressionStatement",

                "src": "5593:47:1"

            },

            {

                "nativeSrc": "5649:139:1",

                "nodeType": "YulAssignment",

                "src": "5649:139:1",

                "value": {

                    "arguments": [

                        {

                            "name": "tail",

                            "nativeSrc": "5783:4:1",

                            "nodeType": "YulIdentifier",

                            "src": "5783:4:1"

                        }

                    ],

                    "functionName": {

                        "name":

"abi_encode_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008

cf45_to_t_string_memory_ptr_fromStack",

                        "nativeSrc": "5657:124:1",

                        "nodeType": "YulIdentifier",

                        "src": "5657:124:1"

                    },

                              "nativeSrc": "5657:131:1",

                              "nodeType": "YulFunctionCall",

                              "src": "5657:131:1"

                        },

                        "variableNames": [

                            {

                                "name": "tail",

                                "nativeSrc": "5649:4:1",

                                "nodeType": "YulIdentifier",

                                "src": "5649:4:1"

                            }

                        ]

                    },

                                                                        "name":

"abi_encode_tuple_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc11892297711

67008cf45__to_t_string_memory_ptr__fromStack_reversed",

                    "nativeSrc": "5376:419:1",

                    "nodeType": "YulFunctionDefinition",

                    "parameters": [

                        {

                            "name": "headStart",

                            "nativeSrc": "5527:9:1",

                            "nodeType": "YulTypedName",

                            "src": "5527:9:1",

```json
                        "type": ""
                    }
                ],
                "returnVariables": [
                    {
                        "name": "tail",
                        "nativeSrc": "5542:4:1",
                        "nodeType": "YulTypedName",
                        "src": "5542:4:1",
                        "type": ""
                    }
                ],
                "src": "5376:419:1"
            },
            {
                "body": {
                    "nativeSrc": "5829:152:1",
                    "nodeType": "YulBlock",
                    "src": "5829:152:1",
                    "statements": [
                        {
                            "expression": {
                                "arguments": [
                                    {
                                        "kind": "number",
                                        "nativeSrc": "5846:1:1",
```

                    "nodeType": "YulLiteral",

                    "src": "5846:1:1",

                    "type": "",

                    "value": "0"

                },

                {

                    "kind": "number",

                    "nativeSrc": "5849:77:1",

                    "nodeType": "YulLiteral",

                    "src": "5849:77:1",

                    "type": "",

                    "value":

"35408467139433450592217433187231851964531694900788300625387963629091585785856"

                }

            ],

            "functionName": {

                "name": "mstore",

                "nativeSrc": "5839:6:1",

                "nodeType": "YulIdentifier",

                "src": "5839:6:1"

            },

            "nativeSrc": "5839:88:1",

            "nodeType": "YulFunctionCall",

            "src": "5839:88:1"

        },

        "nativeSrc": "5839:88:1",

              "nodeType": "YulExpressionStatement",

          "src": "5839:88:1"

      },

      {

          "expression": {

              "arguments": [

                  {

                      "kind": "number",

                      "nativeSrc": "5943:1:1",

                      "nodeType": "YulLiteral",

                      "src": "5943:1:1",

                      "type": "",

                      "value": "4"

                  },

                  {

                      "kind": "number",

                      "nativeSrc": "5946:4:1",

                      "nodeType": "YulLiteral",

                      "src": "5946:4:1",

                      "type": "",

                      "value": "0x11"

                  }

              ],

              "functionName": {

                  "name": "mstore",

                  "nativeSrc": "5936:6:1",

```json
              "nodeType": "YulIdentifier",

              "src": "5936:6:1"

            },

            "nativeSrc": "5936:15:1",

            "nodeType": "YulFunctionCall",

            "src": "5936:15:1"

          },

          "nativeSrc": "5936:15:1",

          "nodeType": "YulExpressionStatement",

          "src": "5936:15:1"

        },

        {

          "expression": {

            "arguments": [

              {

                "kind": "number",

                "nativeSrc": "5967:1:1",

                "nodeType": "YulLiteral",

                "src": "5967:1:1",

                "type": "",

                "value": "0"

              },

              {

                "kind": "number",

                "nativeSrc": "5970:4:1",

                "nodeType": "YulLiteral",
```

```json
                              "src": "5970:4:1",

                              "type": "",

                              "value": "0x24"

                         }

                    ],

                    "functionName": {

                         "name": "revert",

                         "nativeSrc": "5960:6:1",

                         "nodeType": "YulIdentifier",

                         "src": "5960:6:1"

                    },

                    "nativeSrc": "5960:15:1",

                    "nodeType": "YulFunctionCall",

                    "src": "5960:15:1"

               },

               "nativeSrc": "5960:15:1",

               "nodeType": "YulExpressionStatement",

               "src": "5960:15:1"

          }

     ]

},

"name": "panic_error_0x11",

"nativeSrc": "5801:180:1",

"nodeType": "YulFunctionDefinition",

"src": "5801:180:1"

},
```

```json
{
    "body": {
        "nativeSrc": "6032:149:1",
        "nodeType": "YulBlock",
        "src": "6032:149:1",
        "statements": [
            {
                "nativeSrc": "6042:25:1",
                "nodeType": "YulAssignment",
                "src": "6042:25:1",
                "value": {
                    "arguments": [
                        {
                            "name": "x",
                            "nativeSrc": "6065:1:1",
                            "nodeType": "YulIdentifier",
                            "src": "6065:1:1"
                        }
                    ],
                    "functionName": {
                        "name": "cleanup_t_uint256",
                        "nativeSrc": "6047:17:1",
                        "nodeType": "YulIdentifier",
                        "src": "6047:17:1"
                    },
                    "nativeSrc": "6047:20:1",
```

```json
              "nodeType": "YulFunctionCall",

              "src": "6047:20:1"

          },

          "variableNames": [

              {

                  "name": "x",

                  "nativeSrc": "6042:1:1",

                  "nodeType": "YulIdentifier",

                  "src": "6042:1:1"

              }

          ]

      },

      {

          "nativeSrc": "6076:25:1",

          "nodeType": "YulAssignment",

          "src": "6076:25:1",

          "value": {

              "arguments": [

                  {

                      "name": "y",

                      "nativeSrc": "6099:1:1",

                      "nodeType": "YulIdentifier",

                      "src": "6099:1:1"

                  }

              ],

              "functionName": {
```

```json
                    "name": "cleanup_t_uint256",

                    "nativeSrc": "6081:17:1",

                    "nodeType": "YulIdentifier",

                    "src": "6081:17:1"

                },

                "nativeSrc": "6081:20:1",

                "nodeType": "YulFunctionCall",

                "src": "6081:20:1"

            },

            "variableNames": [

                {

                    "name": "y",

                    "nativeSrc": "6076:1:1",

                    "nodeType": "YulIdentifier",

                    "src": "6076:1:1"

                }

            ]

        },

        {

            "nativeSrc": "6110:17:1",

            "nodeType": "YulAssignment",

            "src": "6110:17:1",

            "value": {

                "arguments": [

                    {

                        "name": "x",
```

```json
          "nativeSrc": "6122:1:1",

          "nodeType": "YulIdentifier",

          "src": "6122:1:1"

        },

        {

          "name": "y",

          "nativeSrc": "6125:1:1",

          "nodeType": "YulIdentifier",

          "src": "6125:1:1"

        }

      ],

      "functionName": {

        "name": "sub",

        "nativeSrc": "6118:3:1",

        "nodeType": "YulIdentifier",

        "src": "6118:3:1"

      },

      "nativeSrc": "6118:9:1",

      "nodeType": "YulFunctionCall",

      "src": "6118:9:1"

    },

    "variableNames": [

      {

        "name": "diff",

        "nativeSrc": "6110:4:1",

        "nodeType": "YulIdentifier",
```

```
                "src": "6110:4:1"

            }

        ]

    },

    {

        "body": {

            "nativeSrc": "6152:22:1",

            "nodeType": "YulBlock",

            "src": "6152:22:1",

            "statements": [

                {

                    "expression": {

                        "arguments": [],

                        "functionName": {

                            "name": "panic_error_0x11",

                            "nativeSrc": "6154:16:1",

                            "nodeType": "YulIdentifier",

                            "src": "6154:16:1"

                        },

                        "nativeSrc": "6154:18:1",

                        "nodeType": "YulFunctionCall",

                        "src": "6154:18:1"

                    },

                    "nativeSrc": "6154:18:1",

                    "nodeType": "YulExpressionStatement",

                    "src": "6154:18:1"
```

```
                }
            ]
        },
        "condition": {
            "arguments": [
                {
                    "name": "diff",
                    "nativeSrc": "6143:4:1",
                    "nodeType": "YulIdentifier",
                    "src": "6143:4:1"
                },
                {
                    "name": "x",
                    "nativeSrc": "6149:1:1",
                    "nodeType": "YulIdentifier",
                    "src": "6149:1:1"
                }
            ],
            "functionName": {
                "name": "gt",
                "nativeSrc": "6140:2:1",
                "nodeType": "YulIdentifier",
                "src": "6140:2:1"
            },
            "nativeSrc": "6140:11:1",
            "nodeType": "YulFunctionCall",
```

```json
                    "src": "6140:11:1"
                },
                "nativeSrc": "6137:37:1",
                "nodeType": "YulIf",
                "src": "6137:37:1"
            }
        ]
    },
    "name": "checked_sub_t_uint256",
    "nativeSrc": "5987:194:1",
    "nodeType": "YulFunctionDefinition",
    "parameters": [
        {
            "name": "x",
            "nativeSrc": "6018:1:1",
            "nodeType": "YulTypedName",
            "src": "6018:1:1",
            "type": ""
        },
        {
            "name": "y",
            "nativeSrc": "6021:1:1",
            "nodeType": "YulTypedName",
            "src": "6021:1:1",
            "type": ""
        }
```

```json
        ],
        "returnVariables": [
          {
            "name": "diff",
            "nativeSrc": "6027:4:1",
            "nodeType": "YulTypedName",
            "src": "6027:4:1",
            "type": ""
          }
        ],
        "src": "5987:194:1"
      },
      {
        "body": {
          "nativeSrc": "6231:147:1",
          "nodeType": "YulBlock",
          "src": "6231:147:1",
          "statements": [
            {
              "nativeSrc": "6241:25:1",
              "nodeType": "YulAssignment",
              "src": "6241:25:1",
              "value": {
                "arguments": [
                  {
                    "name": "x",
```

```json
                        "nativeSrc": "6264:1:1",

                        "nodeType": "YulIdentifier",

                        "src": "6264:1:1"

                    }

                ],

                "functionName": {

                    "name": "cleanup_t_uint256",

                    "nativeSrc": "6246:17:1",

                    "nodeType": "YulIdentifier",

                    "src": "6246:17:1"

                },

                "nativeSrc": "6246:20:1",

                "nodeType": "YulFunctionCall",

                "src": "6246:20:1"

            },

            "variableNames": [

                {

                    "name": "x",

                    "nativeSrc": "6241:1:1",

                    "nodeType": "YulIdentifier",

                    "src": "6241:1:1"

                }

            ]

        },

        {

            "nativeSrc": "6275:25:1",
```

```json
"nodeType": "YulAssignment",

"src": "6275:25:1",

"value": {

  "arguments": [

    {

      "name": "y",

      "nativeSrc": "6298:1:1",

      "nodeType": "YulIdentifier",

      "src": "6298:1:1"

    }

  ],

  "functionName": {

    "name": "cleanup_t_uint256",

    "nativeSrc": "6280:17:1",

    "nodeType": "YulIdentifier",

    "src": "6280:17:1"

  },

  "nativeSrc": "6280:20:1",

  "nodeType": "YulFunctionCall",

  "src": "6280:20:1"

},

"variableNames": [

  {

    "name": "y",

    "nativeSrc": "6275:1:1",

    "nodeType": "YulIdentifier",
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                                "src": "6275:1:1"

                            }

                        ]

                    },

                    {

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                                    "src": "6320:1:1"

                                },

                                {

                                    "name": "y",

                                    "nativeSrc": "6323:1:1",

                                    "nodeType": "YulIdentifier",

                                    "src": "6323:1:1"

                                }

                            ],

                            "functionName": {

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                          "src": "6316:9:1"

                      },

                      "variableNames": [

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                              "nativeSrc": "6309:3:1",

                              "nodeType": "YulIdentifier",

                              "src": "6309:3:1"

                          }

                      ]

                  },

                  {

                      "body": {

                          "nativeSrc": "6349:22:1",

                          "nodeType": "YulBlock",

                          "src": "6349:22:1",

                          "statements": [

                              {

                                  "expression": {

                                      "arguments": [],

                                      "functionName": {
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                            "name": "panic_error_0x11",

                            "nativeSrc": "6351:16:1",

                            "nodeType": "YulIdentifier",

                            "src": "6351:16:1"

                        },

                        "nativeSrc": "6351:18:1",

                        "nodeType": "YulFunctionCall",

                        "src": "6351:18:1"

                    },

                    "nativeSrc": "6351:18:1",

                    "nodeType": "YulExpressionStatement",

                    "src": "6351:18:1"

                }

            ]

        },

        "condition": {

            "arguments": [

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                    "nativeSrc": "6341:1:1",

                    "nodeType": "YulIdentifier",

                    "src": "6341:1:1"

                },

                {

                    "name": "sum",

                    "nativeSrc": "6344:3:1",
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                    }

                ],

                "functionName": {

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                    "nativeSrc": "6338:2:1",

                    "nodeType": "YulIdentifier",

                    "src": "6338:2:1"

                },

                "nativeSrc": "6338:10:1",

                "nodeType": "YulFunctionCall",

                "src": "6338:10:1"

            },

            "nativeSrc": "6335:36:1",

            "nodeType": "YulIf",

            "src": "6335:36:1"

        }

    ]

},

"name": "checked_add_t_uint256",

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"parameters": [

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                        "name": "y",

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                        "nodeType": "YulTypedName",

                        "src": "6221:1:1",

                        "type": ""

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                    {

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                        "nativeSrc": "6227:3:1",

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                        "src": "6227:3:1",

                        "type": ""

                    }

                ],

                "src": "6187:191:1"

            }

        ]

    },
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"contents": "{\n\n   function allocate_unbounded() -> memPtr {\n   memPtr := mload(64)\n   }\n\n   function revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b() {\n   revert(0, 0)\n   }\n\n   function revert_error_c1322bf8034eace5e0b5c7295db60986aa89aae5e0ea0873e4689e076861a5db() {\n   revert(0, 0)\n   }\n\n   function cleanup_t_uint160(value) -> cleaned {\n   cleaned := and(value, 0xffffffffffffffffffffffffffffffffffffffff)\n   }\n\n   function cleanup_t_address(value) -> cleaned {\n   cleaned := cleanup_t_uint160(value)\n   }\n\n   function validator_revert_t_address(value) {\n   if iszero(eq(value, cleanup_t_address(value))) { revert(0, 0) }\n   }\n\n   function abi_decode_t_address(offset, end) -> value {\n   value := calldataload(offset)\n   validator_revert_t_address(value)\n   }\n\n   function cleanup_t_uint256(value) -> cleaned {\n   cleaned := value\n   }\n\n   function validator_revert_t_uint256(value) {\n   if iszero(eq(value, cleanup_t_uint256(value))) { revert(0, 0) }\n   }\n\n   function abi_decode_t_uint256(offset, end) -> value {\n   value := calldataload(offset)\n   validator_revert_t_uint256(value)\n   }\n\n   function abi_decode_tuple_t_addresst_uint256(headStart, dataEnd) -> value0, value1 {\n   if slt(sub(dataEnd, headStart), 64) { revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b() }\n\n   {\n\n   let offset := 0\n\n   value0 := abi_decode_t_address(add(headStart, offset), dataEnd)\n   }\n\n   {\n\n   let offset := 32\n\n   value1 := abi_decode_t_uint256(add(headStart, offset), dataEnd)\n   }\n\n   }\n\n   function abi_decode_tuple_t_uint256(headStart, dataEnd) -> value0 {\n   if slt(sub(dataEnd, headStart), 32) { revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b() }\n\n   {\n\n   let offset := 0\n\n   value0 := abi_decode_t_uint256(add(headStart, offset), dataEnd)\n   }\n\n   }\n\n   function abi_encode_t_address_to_t_address_fromStack(value, pos) {\n   mstore(pos, cleanup_t_address(value))\n   }\n\n   function

abi_encode_t_uint256_to_t_uint256_fromStack(value, pos) {\n mstore(pos, cleanup_t_uint256(value))\n }\n\n function abi_encode_tuple_t_address_t_uint256_t_uint256__to_t_address_t_uint256_t_uint256__fromStack _reversed(headStart , value2, value1, value0) -> tail {\n tail := add(headStart, 96)\n\n

abi_encode_t_address_to_t_address_fromStack(value0, add(headStart, 0))\n\n

abi_encode_t_uint256_to_t_uint256_fromStack(value1, add(headStart, 32))\n\n

abi_encode_t_uint256_to_t_uint256_fromStack(value2, add(headStart, 64))\n\n }\n\n function abi_decode_tuple_t_address(headStart, dataEnd) -> value0 {\n if slt(sub(dataEnd, headStart), 32) { revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b() }\n\n {\n\n let offset := 0\n\n value0 := abi_decode_t_address(add(headStart, offset), dataEnd)\n }\n\n }\n\n function abi_encode_tuple_t_uint256_t_uint256__to_t_uint256_t_uint256__fromStack_reversed(headStart , value1, value0) -> tail {\n tail := add(headStart, 64)\n\n

abi_encode_t_uint256_to_t_uint256_fromStack(value0, add(headStart, 0))\n\n

abi_encode_t_uint256_to_t_uint256_fromStack(value1, add(headStart, 32))\n\n }\n\n function abi_encode_tuple_t_uint256__to_t_uint256__fromStack_reversed(headStart , value0) -> tail {\n tail := add(headStart, 32)\n\n abi_encode_t_uint256_to_t_uint256_fromStack(value0, add(headStart, 0))\n\n }\n\n function abi_encode_t_uint256_to_t_uint256(value, pos) {\n mstore(pos, cleanup_t_uint256(value))\n }\n\n // struct LiminalFinancialSystem.Ledger -> struct LiminalFinancialSystem.Ledger\n function abi_encode_t_struct$_Ledger_$7_memory_ptr_to_t_struct$_Ledger_$7_memory_ptr_fromStack(value, pos) {\n let tail := add(pos, 0x40)\n\n {\n // mainnetBalance\n\n let memberValue0 := mload(add(value, 0x00))\n

abi_encode_t_uint256_to_t_uint256(memberValue0, add(pos, 0x00))\n }\n\n {\n // testnetBalance\n\n let memberValue0 := mload(add(value, 0x20))\n

abi_encode_t_uint256_to_t_uint256(memberValue0, add(pos, 0x20))\n }\n }\n\n function

abi_encode_tuple_t_struct$_Ledger_$7_memory_ptr__to_t_struct$_Ledger_$7_memory_ptr__from

Stack_reversed(headStart , value0) -> tail {\n   tail := add(headStart, 64)\n\n

abi_encode_t_struct$_Ledger_$7_memory_ptr_to_t_struct$_Ledger_$7_memory_ptr_fromStack(va

lue0,   add(headStart,   0))\n\n   }\n\n   function

array_storeLengthForEncoding_t_string_memory_ptr_fromStack(pos, length) -> updated_pos {\n

    mstore(pos, length)\n   updated_pos := add(pos, 0x20)   }\n\n   function

store_literal_in_memory_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf

45(memPtr) {\n\n   mstore(add(memPtr, 0), \"Insufficient mainnet balance.\")\n\n   }\n\n   function

abi_encode_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008

cf45_to_t_string_memory_ptr_fromStack(pos)   ->   end   {\n   pos   :=

array_storeLengthForEncoding_t_string_memory_ptr_fromStack(pos,   29)\n

store_literal_in_memory_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf

45(pos)\n   end   :=   add(pos,   32)\n   }\n\n   function

abi_encode_tuple_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc11892297711

67008cf45__to_t_string_memory_ptr__fromStack_reversed(headStart) -> tail {\n   tail :=

add(headStart, 32)\n\n   mstore(add(headStart, 0), sub(tail, headStart))\n   tail :=

abi_encode_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008

cf45_to_t_string_memory_ptr_fromStack(tail)\n\n   }\n\n   function panic_error_0x11() {\n

mstore(0,

35408467139433450592217433187231851964531694900788300625387963629091585785856)\n

    mstore(4, 0x11)\n   revert(0, 0x24)\n   }\n\n   function checked_sub_t_uint256(x, y) -> diff {\n

   x := cleanup_t_uint256(x)\n   y := cleanup_t_uint256(y)\n   diff := sub(x, y)\n\n   if gt(diff,

x) { panic_error_0x11() }\n\n   }\n\n   function checked_add_t_uint256(x, y) -> sum {\n   x :=

cleanup_t_uint256(x)\n   y := cleanup_t_uint256(y)\n   sum := add(x, y)\n\n   if gt(x, sum) {

panic_error_0x11() }\n\n   }\n\n}\n",

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"name": "#utility.yul"

}

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PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH0 ADD SLOAD LT ISZERO PUSH2 0x1A7 JUMPI PUSH1 0x40 MLOAD PUSH32 0x8C379A00000000000000000000000000000000000000000000000000000000 DUP2 MSTORE PUSH1 0x4 ADD PUSH2 0x19E SWAP1 PUSH2 0x78B JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 REVERT JUMPDEST DUP1 PUSH0 DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH0 ADD PUSH0 DUP3 DUP3 SLOAD PUSH2 0x1F4 SWAP2 SWAP1 PUSH2 0x7D6 JUMP JUMPDEST SWAP3 POP POP DUP2 SWAP1 SSTORE POP DUP1 PUSH0 DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x1 ADD PUSH0 DUP3 DUP3 SLOAD PUSH2 0x249 SWAP2 SWAP1 PUSH2 0x809 JUMP JUMPDEST SWAP3 POP POP DUP2 SWAP1 SSTORE POP PUSH1 0x1 PUSH1 0x40 MLOAD DUP1 PUSH1 0x60 ADD PUSH1 0x40 MSTORE DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD DUP4 DUP2 MSTORE PUSH1 0x20 ADD DUP4 DUP2 MSTORE POP SWAP1 DUP1 PUSH1 0x1 DUP2 SLOAD ADD DUP1 DUP3 SSTORE DUP1 SWAP2 POP POP PUSH1 0x1 SWAP1 SUB SWAP1 PUSH0 MSTORE PUSH1 0x20 PUSH0 KECCAK256 SWAP1 PUSH1 0x3 MUL ADD PUSH0 SWAP1 SWAP2 SWAP1 SWAP2 SWAP1 SWAP2 POP PUSH0 DUP3 ADD MLOAD DUP2 PUSH0 ADD PUSH0 PUSH2 0x100 EXP DUP2 SLOAD DUP2 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF MUL NOT AND SWAP1 DUP4 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND MUL OR SWAP1 SSTORE POP PUSH1 0x20 DUP3 ADD MLOAD DUP2 PUSH1 0x1 ADD SSTORE PUSH1 0x40 DUP3 ADD MLOAD DUP2 PUSH1 0x2 ADD SSTORE POP POP DUP2 PUSH20

0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH32 0x7772D368CD3CC6FA8DC9C0956D36DD1243D603ABC8D99496F89D0E6950D80DDE DUP3 DUP4 PUSH1 0x40 MLOAD PUSH2 0x34B SWAP3 SWAP2 SWAP1 PUSH2 0x69C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 LOG2 DUP2 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH32 0xE3E2E5B15DBD2776222DEAB4CBD7FB2AEEECFD735EED24E9809B2352F3FA2D37 PUSH0 DUP1 DUP6 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH0 ADD SLOAD PUSH0 DUP1 DUP7 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x1 ADD SLOAD PUSH1 0x40 MLOAD PUSH2 0x418 SWAP3 SWAP2 SWAP1 PUSH2 0x69C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 LOG2 POP POP JUMP JUMPDEST PUSH1 0x1 DUP2 DUP2 SLOAD DUP2 LT PUSH2 0x433 JUMPI PUSH0 DUP1 REVERT JUMPDEST SWAP1 PUSH0 MSTORE PUSH1 0x20 PUSH0 KECCAK256 SWAP1 PUSH1 0x3 MUL ADD PUSH0 SWAP2 POP SWAP1 POP DUP1 PUSH0 ADD PUSH0 SWAP1 SLOAD SWAP1 PUSH2 0x100 EXP SWAP1 DIV PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND SWAP1 DUP1 PUSH1 0x1 ADD SLOAD SWAP1 DUP1 PUSH1 0x2 ADD SLOAD SWAP1 POP DUP4 JUMP JUMPDEST PUSH0 PUSH1 0x20 MSTORE DUP1 PUSH0 MSTORE PUSH1 0x40 PUSH0 KECCAK256 PUSH0 SWAP2 POP SWAP1 POP DUP1 PUSH0 ADD SLOAD SWAP1 DUP1 PUSH1 0x1 ADD SLOAD SWAP1 POP DUP3 JUMP JUMPDEST PUSH0 PUSH1 0x1 DUP1 SLOAD SWAP1 POP SWAP1 POP SWAP1 JUMP JUMPDEST PUSH2 0x4AB PUSH2 0x50C JUMP JUMPDEST PUSH0 DUP1 DUP4 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD

SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x40 MLOAD DUP1 PUSH1 0x40 ADD PUSH1 0x40 MSTORE SWAP1 DUP2 PUSH0 DUP3 ADD SLOAD DUP2 MSTORE PUSH1 0x20 ADD PUSH1 0x1 DUP3 ADD SLOAD DUP2 MSTORE POP POP SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 PUSH1 0x40 ADD PUSH1 0x40 MSTORE DUP1 PUSH0 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 DUP2 MSTORE POP SWAP1 JUMP JUMPDEST PUSH0 DUP1 REVERT JUMPDEST PUSH0 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF DUP3 AND SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH0 PUSH2 0x551 DUP3 PUSH2 0x528 JUMP JUMPDEST SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH2 0x561 DUP2 PUSH2 0x547 JUMP JUMPDEST DUP2 EQ PUSH2 0x56B JUMPI PUSH0 DUP1 REVERT JUMPDEST POP JUMP JUMPDEST PUSH0 DUP2 CALLDATALOAD SWAP1 POP PUSH2 0x57C DUP2 PUSH2 0x558 JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 DUP2 SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH2 0x594 DUP2 PUSH2 0x582 JUMP JUMPDEST DUP2 EQ PUSH2 0x59E JUMPI PUSH0 DUP1 REVERT JUMPDEST POP JUMP JUMPDEST PUSH0 DUP2 CALLDATALOAD SWAP1 POP PUSH2 0x5AF DUP2 PUSH2 0x58B JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 DUP1 PUSH1 0x40 DUP4 DUP6 SUB SLT ISZERO PUSH2 0x5CB JUMPI PUSH2 0x5CA PUSH2 0x524 JUMP JUMPDEST JUMPDEST PUSH0 PUSH2 0x5D8 DUP6 DUP3 DUP7 ADD PUSH2 0x56E JUMP JUMPDEST SWAP3 POP POP PUSH1 0x20 PUSH2 0x5E9 DUP6 DUP3 DUP7 ADD PUSH2 0x5A1 JUMP JUMPDEST SWAP2 POP POP SWAP3 POP SWAP3 SWAP1 POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 DUP5 SUB SLT ISZERO PUSH2 0x608 JUMPI PUSH2 0x607 PUSH2 0x524 JUMP JUMPDEST JUMPDEST PUSH0 PUSH2 0x615 DUP5 DUP3 DUP6 ADD PUSH2 0x5A1 JUMP JUMPDEST SWAP2 POP POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH2 0x627 DUP2 PUSH2 0x547 JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH2 0x636 DUP2 PUSH2 0x582 JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH0 PUSH1 0x60 DUP3 ADD SWAP1 POP PUSH2 0x64F PUSH0 DUP4 ADD

DUP7 PUSH2 0x61E JUMP JUMPDEST PUSH2 0x65C PUSH1 0x20 DUP4 ADD DUP6 PUSH2 0x62D JUMP JUMPDEST PUSH2 0x669 PUSH1 0x40 DUP4 ADD DUP5 PUSH2 0x62D JUMP JUMPDEST SWAP5 SWAP4 POP POP POP POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 DUP5 SUB SLT ISZERO PUSH2 0x686 JUMPI PUSH2 0x685 PUSH2 0x524 JUMP JUMPDEST JUMPDEST PUSH0 PUSH2 0x693 DUP5 DUP3 DUP6 ADD PUSH2 0x56E JUMP JUMPDEST SWAP2 POP POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 PUSH1 0x40 DUP3 ADD SWAP1 POP PUSH2 0x6AF PUSH0 DUP4 ADD DUP6 PUSH2 0x62D JUMP JUMPDEST PUSH2 0x6BC PUSH1 0x20 DUP4 ADD DUP5 PUSH2 0x62D JUMP JUMPDEST SWAP4 SWAP3 POP POP POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 ADD SWAP1 POP PUSH2 0x6D6 PUSH0 DUP4 ADD DUP5 PUSH2 0x62D JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH2 0x6E5 DUP2 PUSH2 0x582 JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH1 0x40 DUP3 ADD PUSH0 DUP3 ADD MLOAD PUSH2 0x6FF PUSH0 DUP6 ADD DUP3 PUSH2 0x6DC JUMP JUMPDEST POP PUSH1 0x20 DUP3 ADD MLOAD PUSH2 0x712 PUSH1 0x20 DUP6 ADD DUP3 PUSH2 0x6DC JUMP JUMPDEST POP POP POP POP JUMP JUMPDEST PUSH0 PUSH1 0x40 DUP3 ADD SWAP1 POP PUSH2 0x72B PUSH0 DUP4 ADD DUP5 PUSH2 0x6EB JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 DUP3 DUP3 MSTORE PUSH1 0x20 DUP3 ADD SWAP1 POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH32 0x496E7375666669636965E74206D61696E6E65742062616C616E63652E000000 PUSH0 DUP3 ADD MSTORE POP JUMP JUMPDEST PUSH0 PUSH2 0x775 PUSH1 0x1D DUP4 PUSH2 0x731 JUMP JUMPDEST SWAP2 POP PUSH2 0x780 DUP3 PUSH2 0x741 JUMP JUMPDEST PUSH1 0x20 DUP3 ADD SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 ADD SWAP1 POP DUP2 DUP2 SUB PUSH0 DUP4 ADD MSTORE PUSH2 0x7A2 DUP2 PUSH2 0x769 JUMP JUMPDEST SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH32 0x4E487B7100000000000000000000000000000000000000000000000000000000 PUSH0 MSTORE PUSH1 0x11 PUSH1 0x4 MSTORE PUSH1 0x24 PUSH0 REVERT JUMPDEST PUSH0

PUSH2 0x7E0 DUP3 PUSH2 0x582 JUMP JUMPDEST SWAP2 POP PUSH2 0x7EB DUP4 PUSH2 0x582 JUMP JUMPDEST SWAP3 POP DUP3 DUP3 SUB SWAP1 POP DUP2 DUP2 GT ISZERO PUSH2 0x803 JUMPI PUSH2 0x802 PUSH2 0x7A9 JUMP JUMPDEST JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 PUSH2 0x813 DUP3 PUSH2 0x582 JUMP JUMPDEST SWAP2 POP PUSH2 0x81E DUP4 PUSH2 0x582 JUMP JUMPDEST SWAP3 POP DUP3 DUP3 ADD SWAP1 POP DUP1 DUP3 GT ISZERO PUSH2 0x836 JUMPI PUSH2 0x835 PUSH2 0x7A9 JUMP JUMPDEST JUMPDEST SWAP3 SWAP2 POP POP JUMP INVALID LOG2 PUSH5 0x6970667358 0x22 SLT KECCAK256 EXP GAS 0xF DUP4 DUP14 EQ 0xAB DUP3 PUSH28 0xD80C3BE88FE223705850E5E032F9B180CC58570FA631ED64736F6C63 NUMBER STOP ADDMOD NOT STOP CALLER ",

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Liminal Financial Transaction System\n * @author James Ocallaghan\n * @notice This contract
demonstrates a dual-ledger transaction system for Citibank Demo Business Inc.\n * @dev The
system showcases credit/debit balance management across mainnet and testnet ledgers.\n * Visit
ENS: citibankdemobusiness.dev for details.\n */\n\ncontract LiminalFinancialSystem {\n    // Struct
for holding ledger balance information\n    struct Ledger {\n        uint256 mainnetBalance; //
Represents the mainnet balance (can be thought of as 'credit')\n        uint256 testnetBalance; //
Represents the testnet balance (can be thought of as 'debit')\n    }\n\n    // Struct for a transaction\n
struct Transaction {\n        address participant;\n        uint256 mainnetAmount; // Amount debited
from the mainnet\n        uint256 testnetAmount; // Amount credited to the testnet\n    }\n\n    //
Mapping of user addresses to ledger balances\n    mapping(address => Ledger) public ledgers;\n\n
// Array of all transactions, for demo purposes\n    Transaction[] public transactions;\n\n    // Events
for logging transactions and balance adjustments\n    event TransactionLogged(address indexed
participant, uint256 mainnetAmount, uint256 testnetAmount);\n    event LedgerUpdated(address
indexed participant, uint256 newMainnetBalance, uint256 newTestnetBalance);\n\n    /**\n    * @dev
Initialize with a transaction\n    */\n    constructor() {\n        // Initialize the contract with default ledger
balances for demonstration purposes\n        ledgers[msg.sender].mainnetBalance = 1000; // Mainnet
'credit' balance\n        ledgers[msg.sender].testnetBalance = 500;  // Testnet 'debit' balance\n    }\n\n
/**\n        * @dev Perform a transaction, debiting the mainnet balance and crediting the testnet
balance.\n    * @param participant The address of the participant performing the transaction.\n    *
@param amount The amount to transfer between ledgers.\n        */\n        function
performTransaction(address participant, uint256 amount) external {\n
require(ledgers[participant].mainnetBalance >= amount, \"Insufficient mainnet balance.\");\n\n        //
Debit from mainnet and credit to testnet\n        ledgers[participant].mainnetBalance -= amount;\n
ledgers[participant].testnetBalance += amount;\n\n                // Log the transaction\n
```

transactions.push(Transaction(participant, amount, amount));\n emit TransactionLogged(participant, amount, amount);\n\n // Update the ledger\n emit LedgerUpdated(participant, ledgers[participant].mainnetBalance, ledgers[participant].testnetBalance);\n }\n\n /**\n * @dev Getter function for a participant's ledger balances.\n * @param participant The address of the participant.\n * @return Ledger memory The ledger of the participant.\n */\n function getLedger(address participant) public view returns (Ledger memory) {\n return ledgers[participant];\n }\n\n /**\n * @dev Getter function for total transactions (for demonstration).\n * @return uint256 The total number of transactions.\n */\n function getTotalTransactions() public view returns (uint256) {\n return transactions.length;\n }\n}"
      }
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        "runs": 200
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          ],
          "*": [
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            "metadata",
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```json
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                    "storageLayout",

                    "evm.legacyAssembly",

                    "evm.bytecode",

                    "evm.deployedBytecode",

                    "evm.methodIdentifiers",

                    "evm.gasEstimates",

                    "evm.assembly"

                ]

            }

        },

        "remappings": []

    }

},

"output": {

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                    {

                        "inputs": [],

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                        "type": "constructor"

                    },

                    {

                        "anonymous": false,
```

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        {
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          "internalType": "address",
          "name": "participant",
          "type": "address"
        },
        {
          "indexed": false,
          "internalType": "uint256",
          "name": "newMainnetBalance",
          "type": "uint256"
        },
        {
          "indexed": false,
          "internalType": "uint256",
          "name": "newTestnetBalance",
          "type": "uint256"
        }
      ],
      "name": "LedgerUpdated",
      "type": "event"
    },
    {
      "anonymous": false,
      "inputs": [
```

```json
      {
        "indexed": true,
        "internalType": "address",
        "name": "participant",
        "type": "address"
      },
      {
        "indexed": false,
        "internalType": "uint256",
        "name": "mainnetAmount",
        "type": "uint256"
      },
      {
        "indexed": false,
        "internalType": "uint256",
        "name": "testnetAmount",
        "type": "uint256"
      }
    ],
    "name": "TransactionLogged",
    "type": "event"
  },
  {
    "inputs": [
      {
        "internalType": "address",
```

```json
          "name": "participant",

          "type": "address"

        }

    ],

    "name": "getLedger",

    "outputs": [

        {

          "components": [

              {

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                "name": "mainnetBalance",

                "type": "uint256"

              },

              {

                "internalType": "uint256",

                "name": "testnetBalance",

                "type": "uint256"

              }

          ],

          "internalType": "struct LiminalFinancialSystem.Ledger",

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          "type": "tuple"

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    ],

    "stateMutability": "view",

    "type": "function"
```

```json
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      "outputs": [
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          "name": "",
          "type": "uint256"
        }
      ],
      "stateMutability": "view",
      "type": "function"
    },
    {
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          "internalType": "address",
          "name": "",
          "type": "address"
        }
      ],
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      "outputs": [
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```

```json
          "name": "mainnetBalance",

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        },

        {

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          "name": "testnetBalance",

          "type": "uint256"

        }

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          "type": "address"

        },

        {

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          "name": "amount",

          "type": "uint256"

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                  "type": "uint256"
            }
      ],
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      "outputs": [
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                  "name": "participant",
                  "type": "address"
            },
            {
                  "internalType": "uint256",
                  "name": "mainnetAmount",
                  "type": "uint256"
            },
            {
                  "internalType": "uint256",
```

```
                    "name": "testnetAmount",

                    "type": "uint256"

                  }

              ],

              "stateMutability": "view",

              "type": "function"

            }

          ],

          "devdoc": {

            "author": "James Ocallaghan",

                  "details": "The system showcases credit/debit balance management across

mainnet and testnet ledgers. Visit ENS: citibankdemobusiness.dev for details.",

              "kind": "dev",

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                },

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                  "details": "Getter function for a participant's ledger balances.",

                  "params": {

                    "participant": "The address of the participant."

                  },

                  "returns": {

                    "_0": "Ledger memory The ledger of the participant."

                  }

                },
```

          "getTotalTransactions()": {

            "details": "Getter function for total transactions (for demonstration).",

            "returns": {

              "_0": "uint256 The total number of transactions."

            }

          },

          "performTransaction(address,uint256)": {

            "details": "Perform a transaction, debiting the mainnet balance and crediting

the testnet balance.",

            "params": {

              "amount": "The amount to transfer between ledgers.",

              "participant": "The address of the participant performing the transaction."

            }

          }

        },

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        "version": 1

      },

      "evm": {

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LiminalFinancialSystem {... */\n   mstore(0x40, 0x80)\n   /* \"Mainnet2testnet.sol\":1456:1725

constructor() {... */\n callvalue\n dup1\n iszero\n tag_1\n jumpi\n 0x00\n dup1\n revert\ntag_1:\n

    pop\n   /* \"Mainnet2testnet.sol\":1608:1612   1000   */\n   0x03e8\n   /*

\"Mainnet2testnet.sol\":1571:1578   ledgers */\n 0x00\n   /* \"Mainnet2testnet.sol\":1571:1590

ledgers[msg.sender] */\n dup1\n   /* \"Mainnet2testnet.sol\":1579:1589 msg.sender */\n caller\n

/* \"Mainnet2testnet.sol\":1571:1590 ledgers[msg.sender] */\n 0xffffffffffffffffffffffffffffffffffffffff\n and\n

0xffffffffffffffffffffffffffffffffffffffff\n and\n dup2\n mstore\n 0x20\n add\n swap1\n dup2\n mstore\n 0x20\n add\n 0x00\n keccak256\n /* \"Mainnet2testnet.sol\":1571:1605 ledgers[msg.sender].mainnetBalance */\n 0x00\n add\n /* \"Mainnet2testnet.sol\":1571:1612 ledgers[msg.sender].mainnetBalance = 1000 */\n dup2\n swap1\n sstore\n pop\n /* \"Mainnet2testnet.sol\":1687:1690 500 */\n 0x01f4\n /* \"Mainnet2testnet.sol\":1650:1657 ledgers */\n 0x00\n /* \"Mainnet2testnet.sol\":1650:1669 ledgers[msg.sender] */\n dup1\n /* \"Mainnet2testnet.sol\":1658:1668 msg.sender */\n caller\n /* \"Mainnet2testnet.sol\":1650:1669 ledgers[msg.sender] */\n 0xffffffffffffffffffffffffffffffffffffffff\n and\n 0xffffffffffffffffffffffffffffffffffffffff\n and\n dup2\n mstore\n 0x20\n add\n swap1\n dup2\n mstore\n 0x20\n add\n 0x00\n keccak256\n /* \"Mainnet2testnet.sol\":1650:1684 ledgers[msg.sender].testnetBalance */\n 0x01\n add\n /* \"Mainnet2testnet.sol\":1650:1690 ledgers[msg.sender].testnetBalance = 500 */\n dup2\n swap1\n sstore\n pop\n /* \"Mainnet2testnet.sol\":393:3223 contract LiminalFinancialSystem {... */\n dataSize(sub_0)\n dup1\n dataOffset(sub_0)\n 0x00\n codecopy\n 0x00\n return\nstop\n\nsub_0: assembly {\n /* \"Mainnet2testnet.sol\":393:3223 contract LiminalFinancialSystem {... */\n mstore(0x40, 0x80)\n callvalue\n dup1\n iszero\n tag_1\n jumpi\n 0x00\n dup1\n revert\n tag_1:\n pop\n jumpi(tag_2, lt(calldatasize, 0x04))\n shr(0xe0, calldataload(0x00))\n dup1\n 0x67844d2b\n eq\n tag_3\n jumpi\n dup1\n 0x9ace38c2\n eq\n tag_4\n jumpi\n dup1\n 0xb1e1c370\n eq\n tag_5\n jumpi\n dup1\n 0xb5c604ff\n eq\n tag_6\n jumpi\n dup1\n 0xf7cd6af9\n eq\n tag_7\n jumpi\n tag_2:\n 0x00\n dup1\n revert\n /* \"Mainnet2testnet.sol\":1992:2640 function performTransaction(address participant, uint256 amount) external {... */\n tag_3:\n tag_8\n 0x04\n dup1\n calldatasize\n sub\n dup2\n add\n swap1\n tag_9\n swap2\n swap1\n tag_10\n jump\t// in\n tag_9:\n tag_11\n jump\t// in\n tag_8:\n stop\n /* \"Mainnet2testnet.sol\":1082:1115 Transaction[] public transactions */\n tag_4:\n tag_12\n 0x04\n dup1\n calldatasize\n sub\n dup2\n add\n swap1\n tag_13\n

swap2\n   swap1\n   tag_14\n   jump\t// in\n   tag_13:\n   tag_15\n   jump\t// in\n

tag_12:\n   mload(0x40)\n   tag_16\n   swap4\n   swap3\n   swap2\n   swap1\n

tag_17\n   jump\t// in\n   tag_16:\n   mload(0x40)\n   dup1\n   swap2\n   sub\n   swap1\n

return\n   /* \"Mainnet2testnet.sol\":982:1023 mapping(address => Ledger) public ledgers */\n

tag_5:\n   tag_18\n   0x04\n   dup1\n   calldatasize\n   sub\n   dup2\n   add\n

swap1\n   tag_19\n   swap2\n   swap1\n   tag_20\n   jump\t// in\n   tag_19:\n   tag_21\n

jump\t// in\n   tag_18:\n   mload(0x40)\n   tag_22\n   swap3\n   swap2\n   swap1\n

tag_23\n   jump\t// in\n   tag_22:\n   mload(0x40)\n   dup1\n   swap2\n   sub\n   swap1\n

return\n   /* \"Mainnet2testnet.sol\":3116:3221 function getTotalTransactions() public view

returns (uint256) {... */\n   tag_6:\n   tag_24\n   tag_25\n   jump\t// in\n   tag_24:\n

mload(0x40)\n   tag_26\n   swap2\n   swap1\n   tag_27\n   jump\t// in\n   tag_26:\n

mload(0x40)\n   dup1\n   swap2\n   sub\n   swap1\n   return\n   /*

\"Mainnet2testnet.sol\":2845:2965 function getLedger(address participant) public view returns

(Ledger memory) {... */\n   tag_7:\n   tag_28\n   0x04\n   dup1\n   calldatasize\n   sub\n

dup2\n   add\n   swap1\n   tag_29\n   swap2\n   swap1\n   tag_20\n   jump\t// in\n

tag_29:\n   tag_30\n   jump\t// in\n   tag_28:\n   mload(0x40)\n   tag_31\n   swap2\n

swap1\n   tag_32\n   jump\t// in\n   tag_31:\n   mload(0x40)\n   dup1\n   swap2\n   sub\n

swap1\n   return\n   /* \"Mainnet2testnet.sol\":1992:2640 function

performTransaction(address participant, uint256 amount) external {... */\n   tag_11:\n   /*

\"Mainnet2testnet.sol\":2123:2129 amount */\n   dup1\n   /* \"Mainnet2testnet.sol\":2084:2091

ledgers */\n   0x00\n   /* \"Mainnet2testnet.sol\":2084:2104 ledgers[participant] */\n   dup1\n

/* \"Mainnet2testnet.sol\":2092:2103 participant */\n   dup5\n   /*

\"Mainnet2testnet.sol\":2084:2104 ledgers[participant] */\n   0xffffffffffffffffffffffffffffffffffffffff\n

and\n   0xffffffffffffffffffffffffffffffffffffffff\n   and\n   dup2\n   mstore\n   0x20\n   add\n

swap1\n   dup2\n   mstore\n   0x20\n   add\n   0x00\n   keccak256\n   /*

\"Mainnet2testnet.sol\":2084:2119 ledgers[participant].mainnetBalance */\n   0x00\n   add\n

sload\n   /* \"Mainnet2testnet.sol\":2084:2129   ledgers[participant].mainnetBalance >= amount *\n

\n   lt\n   iszero\n   /   \"Mainnet2testnet.sol\":2076:2163

require(ledgers[participant].mainnetBalance >= amount, \"Insufficient mainnet balance.\") *\n

tag_34\n   jumpi\n   mload(0x40)\n

0x08c379a00000000000000000000000000000000000000000000000000000000\n   dup2\n

mstore\n   0x04\n   add\n   tag_35\n   swap1\n   tag_36\n   jump\t// in\n   tag_35:\n

mload(0x40)\n   dup1\n   swap2\n   sub\n   swap1\n   revert\n   tag_34:\n   /*

\"Mainnet2testnet.sol\":2265:2271   amount *\n   dup1\n   /* \"Mainnet2testnet.sol\":2226:2233

ledgers *\n   0x00\n   /* \"Mainnet2testnet.sol\":2226:2246   ledgers[participant] *\n   dup1\n

        /*   \"Mainnet2testnet.sol\":2234:2245   participant   *\n   dup5\n   /*

\"Mainnet2testnet.sol\":2226:2246   ledgers[participant] *\n   0xffffffffffffffffffffffffffffffffffffffff\n

and\n   0xffffffffffffffffffffffffffffffffffffffff\n   and\n   dup2\n   mstore\n   0x20\n   add\n

swap1\n   dup2\n   mstore\n   0x20\n   add\n   0x00\n   keccak256\n   /*

\"Mainnet2testnet.sol\":2226:2261   ledgers[participant].mainnetBalance *\n   0x00\n   add\n

0x00\n   /* \"Mainnet2testnet.sol\":2226:2271   ledgers[participant].mainnetBalance -= amount *\n

    dup3\n   dup3\n   sload\n   tag_37\n   swap2\n   swap1\n   tag_38\n   jump\t// in\n

tag_37:\n   swap3\n   pop\n   pop\n   dup2\n   swap1\n   sstore\n   pop\n   /*

\"Mainnet2testnet.sol\":2320:2326   amount *\n   dup1\n   /* \"Mainnet2testnet.sol\":2281:2288

ledgers *\n   0x00\n   /* \"Mainnet2testnet.sol\":2281:2301   ledgers[participant] *\n   dup1\n

        /*   \"Mainnet2testnet.sol\":2289:2300   participant   *\n   dup5\n   /*

\"Mainnet2testnet.sol\":2281:2301   ledgers[participant] *\n   0xffffffffffffffffffffffffffffffffffffffff\n

and\n   0xffffffffffffffffffffffffffffffffffffffff\n   and\n   dup2\n   mstore\n   0x20\n   add\n

swap1\n   dup2\n   mstore\n   0x20\n   add\n   0x00\n   keccak256\n   /*

\"Mainnet2testnet.sol\":2281:2316   ledgers[participant].testnetBalance *\n   0x01\n   add\n

0x00\n   /* \"Mainnet2testnet.sol\":2281:2326   ledgers[participant].testnetBalance += amount *\n

    dup3\n   dup3\n   sload\n   tag_39\n   swap2\n   swap1\n   tag_40\n   jump\t// in\n

tag_39:\n   swap3\n   pop\n   pop\n   dup2\n   swap1\n   sstore\n   pop\n   /*
\"Mainnet2testnet.sol\":2368:2380   transactions   */\n   0x01\n   /*
\"Mainnet2testnet.sol\":2386:2426 Transaction(participant, amount, amount) */\n   mload(0x40)\n
    dup1\n   0x60\n   add\n   0x40\n   mstore\n   dup1\n   /*
\"Mainnet2testnet.sol\":2398:2409   participant   */\n   dup5\n   /*
\"Mainnet2testnet.sol\":2386:2426   Transaction(participant, amount, amount) */\n
0xffffffffffffffffffffffffffffffffffffffff\n   and\n   dup2\n   mstore\n   0x20\n   add\n   /*
\"Mainnet2testnet.sol\":2411:2417 amount */\n   dup4\n   /* \"Mainnet2testnet.sol\":2386:2426
Transaction(participant, amount, amount) */\n   dup2\n   mstore\n   0x20\n   add\n   /*
\"Mainnet2testnet.sol\":2419:2425 amount */\n   dup4\n   /* \"Mainnet2testnet.sol\":2386:2426
Transaction(participant, amount, amount) */\n   dup2\n   mstore\n   pop\n   /*
\"Mainnet2testnet.sol\":2368:2427 transactions.push(Transaction(participant, amount, amount)) */\n
    swap1\n   dup1\n   0x01\n   dup2\n   sload\n   add\n   dup1\n   dup3\n   sstore\n
dup1\n   swap2\n   pop\n   pop\n   0x01\n   swap1\n   sub\n   swap1\n   0x00\n
mstore\n   keccak256(0x00, 0x20)\n   swap1\n   0x03\n   mul\n   add\n   0x00\n
swap1\n   swap2\n   swap1\n   swap2\n   swap1\n   swap2\n   pop\n   0x00\n   dup3\n
    add\n   mload\n   dup2\n   0x00\n   add\n   exp(0x0100, 0x00)\n   dup2\n   sload\n
    dup2\n   0xffffffffffffffffffffffffffffffffffffffff\n   mul\n   not\n   and\n   swap1\n   dup4\n
0xffffffffffffffffffffffffffffffffffffffff\n   and\n   mul\n   or\n   swap1\n   sstore\n   pop\n   0x20\n
    dup3\n   add\n   mload\n   dup2\n   0x01\n   add\n   sstore\n   0x40\n   dup3\n
add\n   mload\n   dup2\n   0x02\n   add\n   sstore\n   pop\n   pop\n   /*
\"Mainnet2testnet.sol\":2460:2471   participant   */\n   dup2\n   /*
\"Mainnet2testnet.sol\":2442:2488 TransactionLogged(participant, amount, amount) */\n
0xffffffffffffffffffffffffffffffffffffffff\n   and\n
0x7772d368cd3cc6fa8dc9c0956d36dd1243d603abc8d99496f89d0e6950d80dde\n   /*
\"Mainnet2testnet.sol\":2473:2479 amount */\n   dup3\n   /* \"Mainnet2testnet.sol\":2481:2487

amount *\n   dup4\n   /* \"Mainnet2testnet.sol\":2442:2488 TransactionLogged(participant, amount, amount) *\n   mload(0x40)\n   tag_42\n   swap3\n   swap2\n   swap1\n tag_23\n   jump\t// in\n   tag_42:\n   mload(0x40)\n   dup1\n   swap2\n   sub\n   swap1\n   log2\n   /* \"Mainnet2testnet.sol\":2547:2558 participant *\n   dup2\n   /* \"Mainnet2testnet.sol\":2533:2633 LedgerUpdated(participant, ledgers[participant].mainnetBalance, ledgers[participant].testnetBalance) *\n   0xffffffffffffffffffffffffffffffffffffffff\n   and\n 0xe3e2e5b15dbd2776222deab4cbd7fb2aeeecfd735eed24e9809b2352f3fa2d37\n   /* \"Mainnet2testnet.sol\":2560:2567 ledgers *\n   0x00\n   /* \"Mainnet2testnet.sol\":2560:2580 ledgers[participant] *\n   dup1\n   /* \"Mainnet2testnet.sol\":2568:2579 participant *\n dup6\n   /* \"Mainnet2testnet.sol\":2560:2580   ledgers[participant] *\n 0xffffffffffffffffffffffffffffffffffffffff\n   and\n   0xffffffffffffffffffffffffffffffffffffffff\n   and\n   dup2\n mstore\n   0x20\n   add\n   swap1\n   dup2\n   mstore\n   0x20\n   add\n   0x00\n keccak256\n   /* \"Mainnet2testnet.sol\":2560:2595 ledgers[participant].mainnetBalance *\n 0x00\n   add\n   sload\n   /* \"Mainnet2testnet.sol\":2597:2604 ledgers *\n   0x00\n   /* \"Mainnet2testnet.sol\":2597:2617   ledgers[participant] *\n   dup1\n   /* \"Mainnet2testnet.sol\":2605:2616   participant *\n   dup7\n   /* \"Mainnet2testnet.sol\":2597:2617 ledgers[participant] *\n   0xffffffffffffffffffffffffffffffffffffffff\n and\n   0xffffffffffffffffffffffffffffffffffffffff\n   and\n   dup2\n   mstore\n   0x20\n   add\n swap1\n   dup2\n   mstore\n   0x20\n   add\n   0x00\n   keccak256\n   /* \"Mainnet2testnet.sol\":2597:2632 ledgers[participant].testnetBalance *\n   0x01\n   add\n sload\n   /* \"Mainnet2testnet.sol\":2533:2633   LedgerUpdated(participant, ledgers[participant].mainnetBalance, ledgers[participant].testnetBalance) *\n   mload(0x40)\n tag_43\n   swap3\n   swap2\n   swap1\n   tag_23\n   jump\t// in\n   tag_43:\n mload(0x40)\n   dup1\n   swap2\n   sub\n   swap1\n   log2\n   /* \"Mainnet2testnet.sol\":1992:2640   function performTransaction(address participant, uint256 amount) external {... *\n   pop\n   pop\n   jump\t// out\n   /*

\"Mainnet2testnet.sol\":1082:1115 Transaction[] public transactions */\n   tag_15:\n   0x01\n   dup2\n   dup2\n   sload\n   dup2\n   lt\n   tag_44\n   jumpi\n   0x00\n   dup1\n   revert\n   tag_44:\n   swap1\n   0x00\n   mstore\n   keccak256(0x00, 0x20)\n   swap1\n   0x03\n   mul\n   add\n   0x00\n   swap2\n   pop\n   swap1\n   pop\n   dup1\n   0x00\n   add\n   0x00\n   swap1\n   sload\n   swap1\n   0x0100\n   exp\n   swap1\n   div\n   0xffffffffffffffffffffffffffffffffffffffff\n   and\n   swap1\n   dup1\n   0x01\n   add\n   sload\n   swap1\n   dup1\n   0x02\n   add\n   sload\n   swap1\n   pop\n   dup4\n   jump\t// out\n   /* \"Mainnet2testnet.sol\":982:1023 mapping(address => Ledger) public ledgers */\n   tag_21:\n   mstore(0x20, 0x00)\n   dup1\n   0x00\n   mstore\n   keccak256(0x00, 0x40)\n   0x00\n   swap2\n   pop\n   swap1\n   pop\n   dup1\n   0x00\n   add\n   sload\n   swap1\n   dup1\n   0x01\n   add\n   sload\n   swap1\n   pop\n   dup3\n   jump\t// out\n   /* \"Mainnet2testnet.sol\":3116:3221 function getTotalTransactions() public view returns (uint256) {... */\n   tag_25:\n   /* \"Mainnet2testnet.sol\":3169:3176 uint256 */\n   0x00\n   /* \"Mainnet2testnet.sol\":3195:3207 transactions */\n   0x01\n   /* \"Mainnet2testnet.sol\":3195:3214 transactions.length */\n   dup1\n   sload\n   swap1\n   pop\n   /* \"Mainnet2testnet.sol\":3188:3214 return transactions.length */\n   swap1\n   pop\n   /* \"Mainnet2testnet.sol\":3116:3221 function getTotalTransactions() public view returns (uint256) {... */\n   swap1\n   jump\t// out\n   /* \"Mainnet2testnet.sol\":2845:2965 function getLedger(address participant) public view returns (Ledger memory) {... */\n   tag_30:\n   /* \"Mainnet2testnet.sol\":2906:2919 Ledger memory */\n   tag_47\n   tag_48\n   jump\t// in\n   tag_47:\n   /* \"Mainnet2testnet.sol\":2938:2945 ledgers */\n   0x00\n   /* \"Mainnet2testnet.sol\":2938:2958 ledgers[participant] */\n   dup1\n   /* \"Mainnet2testnet.sol\":2946:2957 participant */\n   dup4\n   /* \"Mainnet2testnet.sol\":2938:2958 ledgers[participant] */\n   0xffffffffffffffffffffffffffffffffffffffff\n   and\n   0xffffffffffffffffffffffffffffffffffffffff\n   and\n   dup2\n   mstore\n   0x20\n   add\n   swap1\n   dup2\n   mstore\n   0x20\n   add\n   0x00\n   keccak256\n   /*

\"Mainnet2testnet.sol\":2931:2958 return ledgers[participant] */\n   mload(0x40)\n   dup1\n

0x40\n   add\n   0x40\n   mstore\n   swap1\n   dup2\n   0x00\n   dup3\n   add\n

sload\n   dup2\n   mstore\n   0x20\n   add\n   0x01\n   dup3\n   add\n   sload\n

dup2\n   mstore\n   pop\n   pop\n   swap1\n   pop\n   /*

\"Mainnet2testnet.sol\":2845:2965 function getLedger(address participant) public view returns

(Ledger memory) {... */\n   swap2\n   swap1\n   pop\n   jump\t// out\n   tag_48:\n

mload(0x40)\n   dup1\n   0x40\n   add\n   0x40\n   mstore\n   dup1\n   0x00\n   dup2\n

mstore\n   0x20\n   add\n   0x00\n   dup2\n   mstore\n   pop\n   swap1\n   jump\t//

out\n   /* \"#utility.yul\":88:205 */\n   tag_51:\n   /* \"#utility.yul\":197:198 */\n   0x00\n

/* \"#utility.yul\":194:195 */\n   dup1\n   /* \"#utility.yul\":187:199 */\n   revert\n   /*

\"#utility.yul\":334:460 */\n   tag_53:\n   /* \"#utility.yul\":371:378 */\n   0x00\n   /*

\"#utility.yul\":411:453 */\n   0xffffffffffffffffffffffffffffffffffffffff\n   /* \"#utility.yul\":404:409 */\n

dup3\n   /* \"#utility.yul\":400:454 */\n   and\n   /* \"#utility.yul\":389:454 */\n   swap1\n

pop\n   /* \"#utility.yul\":334:460 */\n   swap2\n   swap1\n   pop\n   jump\t// out\n   /*

\"#utility.yul\":466:562 */\n   tag_54:\n   /* \"#utility.yul\":503:510 */\n   0x00\n   /*

\"#utility.yul\":532:556 */\n   tag_74\n   /* \"#utility.yul\":550:555 */\n   dup3\n   /*

\"#utility.yul\":532:556 */\n   tag_53\n   jump\t// in\n   tag_74:\n   /* \"#utility.yul\":521:556

/\n   swap1\n   pop\n   / \"#utility.yul\":466:562 */\n   swap2\n   swap1\n   pop\n

jump\t// out\n   /* \"#utility.yul\":568:690 */\n   tag_55:\n   /* \"#utility.yul\":641:665 */\n

tag_76\n   /* \"#utility.yul\":659:664 */\n   dup2\n   /* \"#utility.yul\":641:665 */\n   tag_54\n

jump\t// in\n   tag_76:\n   /* \"#utility.yul\":634:639 */\n   dup2\n   /* \"#utility.yul\":631:666

/\n   eq\n   / \"#utility.yul\":621:684 */\n   tag_77\n   jumpi\n   /* \"#utility.yul\":680:681

/\n   0x00\n   / \"#utility.yul\":677:678 */\n   dup1\n   /* \"#utility.yul\":670:682 */\n

revert\n   /* \"#utility.yul\":621:684 */\n   tag_77:\n   /* \"#utility.yul\":568:690 */\n   pop\n

jump\t// out\n   /* \"#utility.yul\":696:835 */\n   tag_56:\n   /* \"#utility.yul\":742:747 */\n

0x00\n   /* \"#utility.yul\":780:786 */\n   dup2\n   /* \"#utility.yul\":767:787 */\n

calldataload\n   /* \"#utility.yul\":758:787 *\n   swap1\n   pop\n   /* \"#utility.yul\":796:829

\n   tag_79\n   / \"#utility.yul\":823:828 *\n   dup2\n   /* \"#utility.yul\":796:829 *\n

tag_55\n   jump\t// in\n   tag_79:\n   /* \"#utility.yul\":696:835 *\n   swap3\n   swap2\n

pop\n   pop\n   jump\t// out\n   /* \"#utility.yul\":841:918   *\n   tag_57:\n   /*

\"#utility.yul\":878:885   *\n   0x00\n   /* \"#utility.yul\":907:912   *\n   dup2\n   /*

\"#utility.yul\":896:912 *\n   swap1\n   pop\n   /* \"#utility.yul\":841:918 *\n   swap2\n

swap1\n   pop\n   jump\t// out\n   /* \"#utility.yul\":924:1046   *\n   tag_58:\n   /*

\"#utility.yul\":997:1021 *\n   tag_82\n   /* \"#utility.yul\":1015:1020 *\n   dup2\n   /*

\"#utility.yul\":997:1021 *\n   tag_57\n   jump\t// in\n   tag_82:\n   /* \"#utility.yul\":990:995

\n   dup2\n   / \"#utility.yul\":987:1022 *\n   eq\n   /* \"#utility.yul\":977:1040 *\n

tag_83\n   jumpi\n   /* \"#utility.yul\":1036:1037 *\n   0x00\n   /* \"#utility.yul\":1033:1034

\n   dup1\n   / \"#utility.yul\":1026:1038 *\n   revert\n   /* \"#utility.yul\":977:1040 *\n

tag_83:\n   /* \"#utility.yul\":924:1046   *\n   pop\n   jump\t// out\n   /*

\"#utility.yul\":1052:1191 *\n   tag_59:\n   /* \"#utility.yul\":1098:1103 *\n   0x00\n   /*

\"#utility.yul\":1136:1142 *\n   dup2\n   /* \"#utility.yul\":1123:1143 *\n   calldataload\n

/* \"#utility.yul\":1114:1143 *\n   swap1\n   pop\n   /* \"#utility.yul\":1152:1185 *\n

tag_85\n   /* \"#utility.yul\":1179:1184 *\n   dup2\n   /* \"#utility.yul\":1152:1185 *\n

tag_58\n   jump\t// in\n   tag_85:\n   /* \"#utility.yul\":1052:1191 *\n   swap3\n   swap2\n

pop\n   pop\n   jump\t// out\n   /* \"#utility.yul\":1197:1671   *\n   tag_10:\n   /*

\"#utility.yul\":1265:1271   *\n   0x00\n   /* \"#utility.yul\":1273:1279   *\n   dup1\n   /*

\"#utility.yul\":1322:1324   *\n   0x40\n   /* \"#utility.yul\":1310:1319   *\n   dup4\n   /*

\"#utility.yul\":1301:1308   *\n   dup6\n   /* \"#utility.yul\":1297:1320   *\n   sub\n   /*

\"#utility.yul\":1293:1325   *\n   slt\n   /* \"#utility.yul\":1290:1409   *\n   iszero\n   tag_87\n

jumpi\n   /* \"#utility.yul\":1328:1407   *\n   tag_88\n   tag_51\n   jump\t// in\n   tag_88:\n

/* \"#utility.yul\":1290:1409   *\n   tag_87:\n   /* \"#utility.yul\":1448:1449   *\n   0x00\n   /*

\"#utility.yul\":1473:1526   *\n   tag_89\n   /* \"#utility.yul\":1518:1525   *\n   dup6\n   /*

\"#utility.yul\":1509:1515 */\n   dup3\n   /* \"#utility.yul\":1498:1507 */\n   dup7\n   /*

\"#utility.yul\":1494:1516 */\n   add\n   /* \"#utility.yul\":1473:1526 */\n   tag_56\n   jump\t//

in\n   tag_89:\n   /* \"#utility.yul\":1463:1526 */\n   swap3\n   pop\n   /*

\"#utility.yul\":1419:1536 */\n   pop\n   /* \"#utility.yul\":1575:1577 */\n   0x20\n   /*

\"#utility.yul\":1601:1654 */\n   tag_90\n   /* \"#utility.yul\":1646:1653 */\n   dup6\n   /*

\"#utility.yul\":1637:1643 */\n   dup3\n   /* \"#utility.yul\":1626:1635 */\n   dup7\n   /*

\"#utility.yul\":1622:1644 */\n   add\n   /* \"#utility.yul\":1601:1654 */\n   tag_59\n   jump\t//

in\n   tag_90:\n   /* \"#utility.yul\":1591:1654 */\n   swap2\n   pop\n   /*

\"#utility.yul\":1546:1664 */\n   pop\n   /* \"#utility.yul\":1197:1671 */\n   swap3\n   pop\n

swap3\n   swap1\n   pop\n   jump\t// out\n   /* \"#utility.yul\":1677:2006 */\n   tag_14:\n

/* \"#utility.yul\":1736:1742 */\n   0x00\n   /* \"#utility.yul\":1785:1787 */\n   0x20\n   /*

\"#utility.yul\":1773:1782 */\n   dup3\n   /* \"#utility.yul\":1764:1771 */\n   dup5\n   /*

\"#utility.yul\":1760:1783 */\n   sub\n   /* \"#utility.yul\":1756:1788 */\n   slt\n   /*

\"#utility.yul\":1753:1872 */\n   iszero\n   tag_92\n   jumpi\n   /* \"#utility.yul\":1791:1870

/\n   tag_93\n   tag_51\n   jump\t// in\n   tag_93:\n   / \"#utility.yul\":1753:1872 */\n

tag_92:\n   /* \"#utility.yul\":1911:1912 */\n   0x00\n   /* \"#utility.yul\":1936:1989 */\n

tag_94\n   /* \"#utility.yul\":1981:1988 */\n   dup5\n   /* \"#utility.yul\":1972:1978 */\n

dup3\n   /* \"#utility.yul\":1961:1970 */\n   dup6\n   /* \"#utility.yul\":1957:1979 */\n   add\n

/* \"#utility.yul\":1936:1989 */\n   tag_59\n   jump\t// in\n   tag_94:\n   /*

\"#utility.yul\":1926:1989 */\n   swap2\n   pop\n   /* \"#utility.yul\":1882:1999 */\n   pop\n

/* \"#utility.yul\":1677:2006 */\n   swap3\n   swap2\n   pop\n   pop\n   jump\t// out\n   /*

\"#utility.yul\":2012:2130 */\n   tag_60:\n   /* \"#utility.yul\":2099:2123 */\n   tag_96\n   /*

\"#utility.yul\":2117:2122 */\n   dup2\n   /* \"#utility.yul\":2099:2123 */\n   tag_54\n   jump\t//

in\n   tag_96:\n   /* \"#utility.yul\":2094:2097 */\n   dup3\n   /* \"#utility.yul\":2087:2124 */\n

mstore\n   /* \"#utility.yul\":2012:2130 */\n   pop\n   pop\n   jump\t// out\n   /*

\"#utility.yul\":2136:2254 */\n   tag_61:\n   /* \"#utility.yul\":2223:2247 */\n   tag_98\n   /*

\"#utility.yul\":2241:2246 *\n dup2\n /* \"#utility.yul\":2223:2247 *\n tag_57\n jump\t// in\n tag_98:\n /* \"#utility.yul\":2218:2221 *\n dup3\n /* \"#utility.yul\":2211:2248 *\n mstore\n /* \"#utility.yul\":2136:2254 *\n pop\n pop\n jump\t// out\n /* \"#utility.yul\":2260:2702 *\n tag_17:\n /* \"#utility.yul\":2409:2413 *\n 0x00\n /* \"#utility.yul\":2447:2449 *\n 0x60\n /* \"#utility.yul\":2436:2445 *\n dup3\n /* \"#utility.yul\":2432:2450 *\n add\n /* \"#utility.yul\":2424:2450 *\n swap1\n pop\n /* \"#utility.yul\":2460:2531 *\n tag_100\n /* \"#utility.yul\":2528:2529 *\n 0x00\n /* \"#utility.yul\":2517:2526 *\n dup4\n /* \"#utility.yul\":2513:2530 *\n add\n /* \"#utility.yul\":2504:2510 *\n dup7\n /* \"#utility.yul\":2460:2531 *\n tag_60\n jump\t// in\n tag_100:\n /* \"#utility.yul\":2541:2613 *\n tag_101\n /* \"#utility.yul\":2609:2611 *\n 0x20\n /* \"#utility.yul\":2598:2607 *\n dup4\n /* \"#utility.yul\":2594:2612 *\n add\n /* \"#utility.yul\":2585:2591 *\n dup6\n /* \"#utility.yul\":2541:2613 *\n tag_61\n jump\t// in\n tag_101:\n /* \"#utility.yul\":2623:2695 *\n tag_102\n /* \"#utility.yul\":2691:2693 *\n 0x40\n /* \"#utility.yul\":2680:2689 *\n dup4\n /* \"#utility.yul\":2676:2694 *\n add\n /* \"#utility.yul\":2667:2673 *\n dup5\n /* \"#utility.yul\":2623:2695 *\n tag_61\n jump\t// in\n tag_102:\n /* \"#utility.yul\":2260:2702 *\n swap5\n swap4\n pop\n pop\n pop\n pop\n jump\t// out\n /* \"#utility.yul\":2708:3037 *\n tag_20:\n /* \"#utility.yul\":2767:2773 *\n 0x00\n /* \"#utility.yul\":2816:2818 *\n 0x20\n /* \"#utility.yul\":2804:2813 *\n dup3\n /* \"#utility.yul\":2795:2802 *\n dup5\n /* \"#utility.yul\":2791:2814 *\n sub\n /* \"#utility.yul\":2787:2819 *\n slt\n /* \"#utility.yul\":2784:2903 *\n iszero\n tag_104\n jumpi\n /* \"#utility.yul\":2822:2901 *\n tag_105\n tag_51\n jump\t// in\n tag_105:\n /* \"#utility.yul\":2784:2903 *\n tag_104:\n /* \"#utility.yul\":2942:2943 *\n 0x00\n /* \"#utility.yul\":2967:3020 *\n tag_106\n /* \"#utility.yul\":3012:3019 *\n dup5\n /* \"#utility.yul\":3003:3009 *\n dup3\n /* \"#utility.yul\":2992:3001 *\n dup6\n /* \"#utility.yul\":2988:3010 *\n add\n /* \"#utility.yul\":2967:3020 *\n

tag_56\n   jump\t// in\n   tag_106:\n   /* \"#utility.yul\":2957:3020 *\n   swap2\n   pop\n
/* \"#utility.yul\":2913:3030 *\n   pop\n   /* \"#utility.yul\":2708:3037 *\n   swap3\n
swap2\n   pop\n   pop\n   jump\t// out\n   /* \"#utility.yul\":3043:3375 *\n   tag_23:\n   /*
\"#utility.yul\":3164:3168 *\n   0x00\n   /* \"#utility.yul\":3202:3204 *\n   0x40\n   /*
\"#utility.yul\":3191:3200 *\n   dup3\n   /* \"#utility.yul\":3187:3205 *\n   add\n   /*
\"#utility.yul\":3179:3205 *\n   swap1\n   pop\n   /* \"#utility.yul\":3215:3286 *\n
tag_108\n   /* \"#utility.yul\":3283:3284 *\n   0x00\n   /* \"#utility.yul\":3272:3281 *\n
dup4\n   /* \"#utility.yul\":3268:3285 *\n   add\n   /* \"#utility.yul\":3259:3265 *\n   dup6\n
        /* \"#utility.yul\":3215:3286 *\n   tag_61\n   jump\t// in\n   tag_108:\n   /*
\"#utility.yul\":3296:3368 *\n   tag_109\n   /* \"#utility.yul\":3364:3366 *\n   0x20\n   /*
\"#utility.yul\":3353:3362 *\n   dup4\n   /* \"#utility.yul\":3349:3367 *\n   add\n   /*
\"#utility.yul\":3340:3346 *\n   dup5\n   /* \"#utility.yul\":3296:3368 *\n   tag_61\n   jump\t//
in\n   tag_109:\n   /* \"#utility.yul\":3043:3375 *\n   swap4\n   swap3\n   pop\n   pop\n
pop\n   jump\t// out\n   /* \"#utility.yul\":3381:3603 *\n   tag_27:\n   /*
\"#utility.yul\":3474:3478 *\n   0x00\n   /* \"#utility.yul\":3512:3514 *\n   0x20\n   /*
\"#utility.yul\":3501:3510 *\n   dup3\n   /* \"#utility.yul\":3497:3515 *\n   add\n   /*
\"#utility.yul\":3489:3515 *\n   swap1\n   pop\n   /* \"#utility.yul\":3525:3596 *\n
tag_111\n   /* \"#utility.yul\":3593:3594 *\n   0x00\n   /* \"#utility.yul\":3582:3591 *\n
dup4\n   /* \"#utility.yul\":3578:3595 *\n   add\n   /* \"#utility.yul\":3569:3575 *\n   dup5\n
        /* \"#utility.yul\":3525:3596 *\n   tag_61\n   jump\t// in\n   tag_111:\n   /*
\"#utility.yul\":3381:3603 *\n   swap3\n   swap2\n   pop\n   pop\n   jump\t// out\n   /*
\"#utility.yul\":3609:3717 *\n   tag_62:\n   /* \"#utility.yul\":3686:3710 *\n   tag_113\n   /*
\"#utility.yul\":3704:3709 *\n   dup2\n   /* \"#utility.yul\":3686:3710 *\n   tag_57\n   jump\t//
in\n   tag_113:\n   /* \"#utility.yul\":3681:3684 *\n   dup3\n   /* \"#utility.yul\":3674:3711
\n   mstore\n   / \"#utility.yul\":3609:3717 *\n   pop\n   pop\n   jump\t// out\n   /*
\"#utility.yul\":3807:4326 *\n   tag_63:\n   /* \"#utility.yul\":3946:3950 *\n   0x40\n   /*

\"#utility.yul\":3941:3944 *\/n dup3\n /* \"#utility.yul\":3937:3951 *\/n add\n /*
\"#utility.yul\":4043:4047 *\/n 0x00\n /* \"#utility.yul\":4036:4041 *\/n dup3\n /*
\"#utility.yul\":4032:4048 *\/n add\n /* \"#utility.yul\":4026:4049 *\/n mload\n /*
\"#utility.yul\":4062:4125 *\/n tag_115\n /* \"#utility.yul\":4119:4123 *\/n 0x00\n /*
\"#utility.yul\":4114:4117 *\/n dup6\n /* \"#utility.yul\":4110:4124 *\/n add\n /*
\"#utility.yul\":4096:4108 *\/n dup3\n /* \"#utility.yul\":4062:4125 *\/n tag_62\n jump\t//
in\n tag_115:\n /* \"#utility.yul\":3961:4135 *\/n pop\n /* \"#utility.yul\":4227:4231 *\/n
0x20\n /* \"#utility.yul\":4220:4225 *\/n dup3\n /* \"#utility.yul\":4216:4232 *\/n
add\n /* \"#utility.yul\":4210:4233 *\/n mload\n /* \"#utility.yul\":4246:4309 *\/n
tag_116\n /* \"#utility.yul\":4303:4307 *\/n 0x20\n /* \"#utility.yul\":4298:4301 *\/n
dup6\n /* \"#utility.yul\":4294:4308 *\/n add\n /* \"#utility.yul\":4280:4292 *\/n dup3\n
/* \"#utility.yul\":4246:4309 *\/n tag_62\n jump\t// in\n tag_116:\n /*
\"#utility.yul\":4145:4319 *\/n pop\n /* \"#utility.yul\":3915:4326 *\/n pop\n /*
\"#utility.yul\":3807:4326 *\/n pop\n pop\n jump\t// out\n /* \"#utility.yul\":4332:4638
\/n tag_32:\n / \"#utility.yul\":4467:4471 *\/n 0x00\n /* \"#utility.yul\":4505:4507 *\/n
0x40\n /* \"#utility.yul\":4494:4503 *\/n dup3\n /* \"#utility.yul\":4490:4508 *\/n
add\n /* \"#utility.yul\":4482:4508 *\/n swap1\n pop\n /* \"#utility.yul\":4518:4631 *\/n
tag_118\n /* \"#utility.yul\":4628:4629 *\/n 0x00\n /* \"#utility.yul\":4617:4626 *\/n
dup4\n /* \"#utility.yul\":4613:4630 *\/n add\n /* \"#utility.yul\":4604:4610 *\/n dup5\n
/* \"#utility.yul\":4518:4631 *\/n tag_63\n jump\t// in\n tag_118:\n /*
\"#utility.yul\":4332:4638 *\/n swap3\n swap2\n pop\n pop\n jump\t// out\n /*
\"#utility.yul\":4644:4813 *\/n tag_64:\n /* \"#utility.yul\":4728:4739 *\/n 0x00\n /*
\"#utility.yul\":4762:4768 *\/n dup3\n /* \"#utility.yul\":4757:4760 *\/n dup3\n /*
\"#utility.yul\":4750:4769 *\/n mstore\n /* \"#utility.yul\":4802:4806 *\/n 0x20\n /*
\"#utility.yul\":4797:4800 *\/n dup3\n /* \"#utility.yul\":4793:4807 *\/n add\n /*
\"#utility.yul\":4778:4807 *\/n swap1\n pop\n /* \"#utility.yul\":4644:4813 *\/n swap3\n

swap2\n   pop\n   pop\n   jump\t// out\n   /* \"#utility.yul\":4819:4998 */\n   tag_65:\n

/*   \"#utility.yul\":4959:4990   */\n

0x496e73756666696369656e74206d61696e6e65742062616c616e63652e000000\n   /*

\"#utility.yul\":4955:4956 */\n   0x00\n   /* \"#utility.yul\":4947:4953 */\n   dup3\n   /*

\"#utility.yul\":4943:4957 */\n   add\n   /* \"#utility.yul\":4936:4991 */\n   mstore\n   /*

\"#utility.yul\":4819:4998 */\n   pop\n   jump\t// out\n   /* \"#utility.yul\":5004:5370 */\n

tag_66:\n   /* \"#utility.yul\":5146:5149 */\n   0x00\n   /* \"#utility.yul\":5167:5234 */\n

tag_122\n   /* \"#utility.yul\":5231:5233 */\n   0x1d\n   /* \"#utility.yul\":5226:5229 */\n

dup4\n   /* \"#utility.yul\":5167:5234 */\n   tag_64\n   jump\t// in\n   tag_122:\n   /*

\"#utility.yul\":5160:5234 */\n   swap2\n   pop\n   /* \"#utility.yul\":5243:5336 */\n

tag_123\n   /* \"#utility.yul\":5332:5335 */\n   dup3\n   /* \"#utility.yul\":5243:5336 */\n

tag_65\n   jump\t// in\n   tag_123:\n   /* \"#utility.yul\":5361:5363 */\n   0x20\n   /*

\"#utility.yul\":5356:5359 */\n   dup3\n   /* \"#utility.yul\":5352:5364 */\n   add\n   /*

\"#utility.yul\":5345:5364 */\n   swap1\n   pop\n   /* \"#utility.yul\":5004:5370 */\n   swap2\n

swap1\n   pop\n   jump\t// out\n   /* \"#utility.yul\":5376:5795 */\n   tag_36:\n   /*

\"#utility.yul\":5542:5546 */\n   0x00\n   /* \"#utility.yul\":5580:5582 */\n   0x20\n   /*

\"#utility.yul\":5569:5578 */\n   dup3\n   /* \"#utility.yul\":5565:5583 */\n   add\n   /*

\"#utility.yul\":5557:5583 */\n   swap1\n   pop\n   /* \"#utility.yul\":5629:5638 */\n   dup2\n

/* \"#utility.yul\":5623:5627 */\n   dup2\n   /* \"#utility.yul\":5619:5639 */\n   sub\n   /*

\"#utility.yul\":5615:5616 */\n   0x00\n   /* \"#utility.yul\":5604:5613 */\n   dup4\n   /*

\"#utility.yul\":5600:5617 */\n   add\n   /* \"#utility.yul\":5593:5640 */\n   mstore\n   /*

\"#utility.yul\":5657:5788 */\n   tag_125\n   /* \"#utility.yul\":5783:5787 */\n   dup2\n   /*

\"#utility.yul\":5657:5788   */\n   tag_66\n   jump\t// in\n   tag_125:\n   /*

\"#utility.yul\":5649:5788 */\n   swap1\n   pop\n   /* \"#utility.yul\":5376:5795 */\n   swap2\n

swap1\n   pop\n   jump\t// out\n   /* \"#utility.yul\":5801:5981 */\n   tag_67:\n   /*

\"#utility.yul\":5849:5926   */\n

0x4e487b7100000000000000000000000000000000000000000000000000000000\n   /*

\"#utility.yul\":5846:5847   */\n   0x00\n   /* \"#utility.yul\":5839:5927   */\n   mstore\n   /*

\"#utility.yul\":5946:5950   */\n   0x11\n   /* \"#utility.yul\":5943:5944   */\n   0x04\n   /*

\"#utility.yul\":5936:5951   */\n   mstore\n   /* \"#utility.yul\":5970:5974   */\n   0x24\n   /*

\"#utility.yul\":5967:5968   */\n   0x00\n   /* \"#utility.yul\":5960:5975   */\n   revert\n   /*

\"#utility.yul\":5987:6181   */\n   tag_38:\n   /* \"#utility.yul\":6027:6031   */\n   0x00\n   /*

\"#utility.yul\":6047:6067   */\n   tag_128\n   /* \"#utility.yul\":6065:6066   */\n   dup3\n   /*

\"#utility.yul\":6047:6067   */\n   tag_57\n   jump\t// in\n   tag_128:\n   /*

\"#utility.yul\":6042:6067   */\n   swap2\n   pop\n   /* \"#utility.yul\":6081:6101   */\n

tag_129\n   /* \"#utility.yul\":6099:6100   */\n   dup4\n   /* \"#utility.yul\":6081:6101   */\n

tag_57\n   jump\t// in\n   tag_129:\n   /* \"#utility.yul\":6076:6101   */\n   swap3\n   pop\n

/* \"#utility.yul\":6125:6126   */\n   dup3\n   /* \"#utility.yul\":6122:6123   */\n   dup3\n   /*

\"#utility.yul\":6118:6127   */\n   sub\n   /* \"#utility.yul\":6110:6127   */\n   swap1\n   pop\n

/* \"#utility.yul\":6149:6150   */\n   dup2\n   /* \"#utility.yul\":6143:6147   */\n   dup2\n   /*

\"#utility.yul\":6140:6151   */\n   gt\n   /* \"#utility.yul\":6137:6174   */\n   iszero\n   tag_130\n

jumpi\n   /* \"#utility.yul\":6154:6172   */\n   tag_131\n   tag_67\n   jump\t// in\n

tag_131:\n   /* \"#utility.yul\":6137:6174   */\n   tag_130:\n   /* \"#utility.yul\":5987:6181   */\n

swap3\n   swap2\n   pop\n   pop\n   jump\t// out\n   /* \"#utility.yul\":6187:6378   */\n

tag_40:\n   /* \"#utility.yul\":6227:6230   */\n   0x00\n   /* \"#utility.yul\":6246:6266   */\n

tag_133\n   /* \"#utility.yul\":6264:6265   */\n   dup3\n   /* \"#utility.yul\":6246:6266   */\n

tag_57\n   jump\t// in\n   tag_133:\n   /* \"#utility.yul\":6241:6266   */\n   swap2\n   pop\n

/* \"#utility.yul\":6280:6300   */\n   tag_134\n   /* \"#utility.yul\":6298:6299   */\n   dup4\n   /*

\"#utility.yul\":6280:6300   */\n   tag_57\n   jump\t// in\n   tag_134:\n   /*

\"#utility.yul\":6275:6300   */\n   swap3\n   pop\n   /* \"#utility.yul\":6323:6324   */\n   dup3\n

/* \"#utility.yul\":6320:6321   */\n   dup3\n   /* \"#utility.yul\":6316:6325   */\n   add\n   /*

\"#utility.yul\":6309:6325   */\n   swap1\n   pop\n   /* \"#utility.yul\":6344:6347   */\n   dup1\n

/* \"#utility.yul\":6341:6342 */\n   dup3\n   /* \"#utility.yul\":6338:6348 */\n   gt\n   /* \"#utility.yul\":6335:6371 */\n   iszero\n   tag_135\n   jumpi\n   /* \"#utility.yul\":6351:6369 */\n   tag_136\n   tag_67\n   jump\t// in\n   tag_136:\n   /* \"#utility.yul\":6335:6371 */\n   tag_135:\n   /* \"#utility.yul\":6187:6378 */\n   swap3\n   swap2\n   pop\n   pop\n   jump\t//   out\n\n   auxdata: 0xa26469706673582212200a5a0f838d14ab827bd80c3be88fe223705850e5e032f9b180cc58570fa631ed64736f6c63430008190033\n}\n",

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0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x1 ADD DUP2 SWAP1 SSTORE POP PUSH2 0x872 DUP1 PUSH2 0xA7 PUSH0 CODECOPY PUSH0 RETURN INVALID PUSH1 0x80 PUSH1 0x40 MSTORE CALLVALUE DUP1 ISZERO PUSH2 0xF JUMPI PUSH0 DUP1 REVERT JUMPDEST POP PUSH1 0x4 CALLDATASIZE LT PUSH2 0x55 JUMPI PUSH0 CALLDATALOAD PUSH1 0xE0 SHR DUP1 PUSH4 0x67844D2B EQ PUSH2 0x59 JUMPI DUP1 PUSH4 0x9ACE38C2 EQ PUSH2 0x75 JUMPI DUP1 PUSH4 0xB1E1C370 EQ PUSH2 0xA7 JUMPI DUP1 PUSH4 0xB5C604FF EQ PUSH2 0xD8 JUMPI DUP1 PUSH4 0xF7CD6AF9 EQ PUSH2 0xF6 JUMPI JUMPDEST PUSH0 DUP1 REVERT JUMPDEST PUSH2 0x73 PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0x6E SWAP2 SWAP1 PUSH2 0x5B5 JUMP JUMPDEST PUSH2 0x126 JUMP JUMPDEST STOP JUMPDEST PUSH2 0x8F PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0x8A SWAP2 SWAP1 PUSH2 0x5F3 JUMP JUMPDEST PUSH2 0x424 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0x9E SWAP4 SWAP3 SWAP2 SWAP1 PUSH2 0x63C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST PUSH2 0xC1 PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0xBC SWAP2 SWAP1 PUSH2 0x671 JUMP JUMPDEST PUSH2 0x478 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0xCF SWAP3 SWAP2 SWAP1 PUSH2 0x69C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST PUSH2 0xE0 PUSH2 0x497 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0xED SWAP2 SWAP1 PUSH2 0x6C3 JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST PUSH2 0x110 PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0x10B SWAP2 SWAP1 PUSH2 0x671 JUMP JUMPDEST PUSH2 0x4A3 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0x11D SWAP2 SWAP1 PUSH2 0x718 JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST DUP1 PUSH0 DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND

PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH0 ADD SLOAD LT ISZERO PUSH2 0x1A7 JUMPI PUSH1 0x40 MLOAD PUSH32 0x8C379A00000000000000000000000000000000000000000000000000000000 DUP2 MSTORE PUSH1 0x4 ADD PUSH2 0x19E SWAP1 PUSH2 0x78B JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 REVERT JUMPDEST DUP1 PUSH0 DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH0 ADD PUSH0 DUP3 DUP3 SLOAD PUSH2 0x1F4 SWAP2 SWAP1 PUSH2 0x7D6 JUMP JUMPDEST SWAP3 POP POP DUP2 SWAP1 SSTORE POP DUP1 PUSH0 DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x1 ADD PUSH0 DUP3 DUP3 SLOAD PUSH2 0x249 SWAP2 SWAP1 PUSH2 0x809 JUMP JUMPDEST SWAP3 POP POP DUP2 SWAP1 SSTORE POP PUSH1 0x1 PUSH1 0x40 MLOAD DUP1 PUSH1 0x60 ADD PUSH1 0x40 MSTORE DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD DUP4 DUP2 MSTORE PUSH1 0x20 ADD DUP4 DUP2 MSTORE POP SWAP1 DUP1 PUSH1 0x1 DUP2 SLOAD ADD DUP1 DUP3 SSTORE DUP1 SWAP2 POP POP PUSH1 0x1 SWAP1 SUB SWAP1 PUSH0 MSTORE PUSH1 0x20 PUSH0 KECCAK256 SWAP1 PUSH1 0x3 MUL ADD PUSH0 SWAP1 SWAP2 SWAP1 SWAP2 SWAP1 SWAP2 POP PUSH0 DUP3 ADD MLOAD DUP2 PUSH0 ADD PUSH0 PUSH2 0x100 EXP DUP2 SLOAD DUP2 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF MUL NOT AND SWAP1 DUP4 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND MUL OR SWAP1 SSTORE POP PUSH1 0x20 DUP3 ADD MLOAD DUP2 PUSH1 0x1 ADD SSTORE PUSH1 0x40 DUP3 ADD MLOAD DUP2 PUSH1 0x2 ADD SSTORE POP POP DUP2 PUSH20

0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH32 0x7772D368CD3CC6FA8DC9C0956D36DD1243D603ABC8D99496F89D0E6950D80DDE DUP3 DUP4 PUSH1 0x40 MLOAD PUSH2 0x34B SWAP3 SWAP2 SWAP1 PUSH2 0x69C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 LOG2 DUP2 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH32 0xE3E2E5B15DBD2776222DEAB4CBD7FB2AEEECFD735EED24E9809B2352F3FA2D37 PUSH0 DUP1 DUP6 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH0 ADD SLOAD PUSH0 DUP1 DUP7 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x1 ADD SLOAD PUSH1 0x40 MLOAD PUSH2 0x418 SWAP3 SWAP2 SWAP1 PUSH2 0x69C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 LOG2 POP POP JUMP JUMPDEST PUSH1 0x1 DUP2 DUP2 SLOAD DUP2 LT PUSH2 0x433 JUMPI PUSH0 DUP1 REVERT JUMPDEST SWAP1 PUSH0 MSTORE PUSH1 0x20 PUSH0 KECCAK256 SWAP1 PUSH1 0x3 MUL ADD PUSH0 SWAP2 POP SWAP1 POP DUP1 PUSH0 ADD PUSH0 SWAP1 SLOAD SWAP1 PUSH2 0x100 EXP SWAP1 DIV PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND SWAP1 DUP1 PUSH1 0x1 ADD SLOAD SWAP1 DUP1 PUSH1 0x2 ADD SLOAD SWAP1 POP DUP4 JUMP JUMPDEST PUSH0 PUSH1 0x20 MSTORE DUP1 PUSH0 MSTORE PUSH1 0x40 PUSH0 KECCAK256 PUSH0 SWAP2 POP SWAP1 POP DUP1 PUSH0 ADD SLOAD SWAP1 DUP1 PUSH1 0x1 ADD SLOAD SWAP1 POP DUP3 JUMP JUMPDEST PUSH0 PUSH1 0x1 DUP1 SLOAD SWAP1 POP SWAP1 POP SWAP1 JUMP JUMPDEST PUSH2 0x4AB PUSH2 0x50C JUMP JUMPDEST PUSH0 DUP1 DUP4 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD

SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x40 MLOAD DUP1 PUSH1 0x40 ADD PUSH1 0x40 MSTORE SWAP1 DUP2 PUSH0 DUP3 ADD SLOAD DUP2 MSTORE PUSH1 0x20 ADD PUSH1 0x1 DUP3 ADD SLOAD DUP2 MSTORE POP POP SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 PUSH1 0x40 ADD PUSH1 0x40 MSTORE DUP1 PUSH0 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 DUP2 MSTORE POP SWAP1 JUMP JUMPDEST PUSH0 DUP1 REVERT JUMPDEST PUSH0 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF DUP3 AND SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH0 PUSH2 0x551 DUP3 PUSH2 0x528 JUMP JUMPDEST SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH2 0x561 DUP2 PUSH2 0x547 JUMP JUMPDEST DUP2 EQ PUSH2 0x56B JUMPI PUSH0 DUP1 REVERT JUMPDEST POP JUMP JUMPDEST PUSH0 DUP2 CALLDATALOAD SWAP1 POP PUSH2 0x57C DUP2 PUSH2 0x558 JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 DUP2 SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH2 0x594 DUP2 PUSH2 0x582 JUMP JUMPDEST DUP2 EQ PUSH2 0x59E JUMPI PUSH0 DUP1 REVERT JUMPDEST POP JUMP JUMPDEST PUSH0 DUP2 CALLDATALOAD SWAP1 POP PUSH2 0x5AF DUP2 PUSH2 0x58B JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 DUP1 PUSH1 0x40 DUP4 DUP6 SUB SLT ISZERO PUSH2 0x5CB JUMPI PUSH2 0x5CA PUSH2 0x524 JUMP JUMPDEST JUMPDEST PUSH0 PUSH2 0x5D8 DUP6 DUP3 DUP7 ADD PUSH2 0x56E JUMP JUMPDEST SWAP3 POP POP PUSH1 0x20 PUSH2 0x5E9 DUP6 DUP3 DUP7 ADD PUSH2 0x5A1 JUMP JUMPDEST SWAP2 POP POP SWAP3 POP SWAP3 SWAP1 POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 DUP5 SUB SLT ISZERO PUSH2 0x608 JUMPI PUSH2 0x607 PUSH2 0x524 JUMP JUMPDEST JUMPDEST PUSH0 PUSH2 0x615 DUP5 DUP3 DUP6 ADD PUSH2 0x5A1 JUMP JUMPDEST SWAP2 POP POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH2 0x627 DUP2 PUSH2 0x547 JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH2 0x636 DUP2 PUSH2 0x582 JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH0 PUSH1 0x60 DUP3 ADD SWAP1 POP PUSH2 0x64F PUSH0 DUP4 ADD

DUP7 PUSH2 0x61E JUMP JUMPDEST PUSH2 0x65C PUSH1 0x20 DUP4 ADD DUP6 PUSH2 0x62D JUMP JUMPDEST PUSH2 0x669 PUSH1 0x40 DUP4 ADD DUP5 PUSH2 0x62D JUMP JUMPDEST SWAP5 SWAP4 POP POP POP POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 DUP5 SUB SLT ISZERO PUSH2 0x686 JUMPI PUSH2 0x685 PUSH2 0x524 JUMP JUMPDEST JUMPDEST PUSH0 PUSH2 0x693 DUP5 DUP3 DUP6 ADD PUSH2 0x56E JUMP JUMPDEST SWAP2 POP POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 PUSH1 0x40 DUP3 ADD SWAP1 POP PUSH2 0x6AF PUSH0 DUP4 ADD DUP6 PUSH2 0x62D JUMP JUMPDEST PUSH2 0x6BC PUSH1 0x20 DUP4 ADD DUP5 PUSH2 0x62D JUMP JUMPDEST SWAP4 SWAP3 POP POP POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 ADD SWAP1 POP PUSH2 0x6D6 PUSH0 DUP4 ADD DUP5 PUSH2 0x62D JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH2 0x6E5 DUP2 PUSH2 0x582 JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH1 0x40 DUP3 ADD PUSH0 DUP3 ADD MLOAD PUSH2 0x6FF PUSH0 DUP6 ADD DUP3 PUSH2 0x6DC JUMP JUMPDEST POP PUSH1 0x20 DUP3 ADD MLOAD PUSH2 0x712 PUSH1 0x20 DUP6 ADD DUP3 PUSH2 0x6DC JUMP JUMPDEST POP POP POP POP JUMP JUMPDEST PUSH0 PUSH1 0x40 DUP3 ADD SWAP1 POP PUSH2 0x72B PUSH0 DUP4 ADD DUP5 PUSH2 0x6EB JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 DUP3 DUP3 MSTORE PUSH1 0x20 DUP3 ADD SWAP1 POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH32 0x496E73756666696369656E74206D61696E6E65742062616C616E63652E000000 PUSH0 DUP3 ADD MSTORE POP JUMP JUMPDEST PUSH0 PUSH2 0x775 PUSH1 0x1D DUP4 PUSH2 0x731 JUMP JUMPDEST SWAP2 POP PUSH2 0x780 DUP3 PUSH2 0x741 JUMP JUMPDEST PUSH1 0x20 DUP3 ADD SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 ADD SWAP1 POP DUP2 DUP2 SUB PUSH0 DUP4 ADD MSTORE PUSH2 0x7A2 DUP2 PUSH2 0x769 JUMP JUMPDEST SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH32 0x4E487B7100000000000000000000000000000000000000000000000000000000 PUSH0 MSTORE PUSH1 0x11 PUSH1 0x4 MSTORE PUSH1 0x24 PUSH0 REVERT JUMPDEST PUSH0

PUSH2 0x7E0 DUP3 PUSH2 0x582 JUMP JUMPDEST SWAP2 POP PUSH2 0x7EB DUP4 PUSH2 0x582 JUMP JUMPDEST SWAP3 POP DUP3 DUP3 SUB SWAP1 POP DUP2 DUP2 GT ISZERO PUSH2 0x803 JUMPI PUSH2 0x802 PUSH2 0x7A9 JUMP JUMPDEST JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 PUSH2 0x813 DUP3 PUSH2 0x582 JUMP JUMPDEST SWAP2 POP PUSH2 0x81E DUP4 PUSH2 0x582 JUMP JUMPDEST SWAP3 POP DUP3 DUP3 ADD SWAP1 POP DUP1 DUP3 GT ISZERO PUSH2 0x836 JUMPI PUSH2 0x835 PUSH2 0x7A9 JUMP JUMPDEST JUMPDEST SWAP3 SWAP2 POP POP JUMP INVALID LOG2 PUSH5 0x6970667358 0x22 SLT KECCAK256 EXP GAS 0xF DUP4 DUP14 EQ 0xAB DUP3 PUSH28 0xD80C3BE88FE223705850E5E032F9B180CC58570FA631ED64736F6C63 NUMBER STOP ADDMOD NOT STOP CALLER ",

"sourceMap": "393:2830:0:-:0;;;1456:269;;;;;;;;;;;1608:4;1571:7;:19;1579:10;1571:19;;;;;;;;;;;;;;;:34;;:41;;;;1687:3;1650:7;:19;1658:10;1650:19;;;;;;;;;;;;;;;:34;;:40;;;;393:2830;;;;;"
                },
                "deployedBytecode": {
                    "functionDebugData": {
                        "@getLedger_135": {
                            "entryPoint": 1187,
                            "id": 135,
                            "parameterSlots": 1,
                            "returnSlots": 1
                        },
                        "@getTotalTransactions_145": {
                            "entryPoint": 1175,
                            "id": 145,
                            "parameterSlots": 0,

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      "returnSlots": 1
    },
    "@ledgers_19": {
      "entryPoint": 1144,
      "id": 19,
      "parameterSlots": 0,
      "returnSlots": 0
    },
    "@performTransaction_121": {
      "entryPoint": 294,
      "id": 121,
      "parameterSlots": 2,
      "returnSlots": 0
    },
    "@transactions_23": {
      "entryPoint": 1060,
      "id": 23,
      "parameterSlots": 0,
      "returnSlots": 0
    },
    "abi_decode_t_address": {
      "entryPoint": 1390,
      "id": null,
      "parameterSlots": 2,
      "returnSlots": 1
    },
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"abi_decode_t_uint256": {

    "entryPoint": 1441,

    "id": null,

    "parameterSlots": 2,

    "returnSlots": 1

},

"abi_decode_tuple_t_address": {

    "entryPoint": 1649,

    "id": null,

    "parameterSlots": 2,

    "returnSlots": 1

},

"abi_decode_tuple_t_addresst_uint256": {

    "entryPoint": 1461,

    "id": null,

    "parameterSlots": 2,

    "returnSlots": 2

},

"abi_decode_tuple_t_uint256": {

    "entryPoint": 1523,

    "id": null,

    "parameterSlots": 2,

    "returnSlots": 1

},

"abi_encode_t_address_to_t_address_fromStack": {

    "entryPoint": 1566,
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                "id": null,

                "parameterSlots": 2,

                "returnSlots": 0

            },

"abi_encode_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008

cf45_to_t_string_memory_ptr_fromStack": {

                "entryPoint": 1897,

                "id": null,

                "parameterSlots": 1,

                "returnSlots": 1

            },

"abi_encode_t_struct$_Ledger_$7_memory_ptr_to_t_struct$_Ledger_$7_memory_ptr_fromStack":

{

                "entryPoint": 1771,

                "id": null,

                "parameterSlots": 2,

                "returnSlots": 0

            },
            "abi_encode_t_uint256_to_t_uint256": {
                "entryPoint": 1756,
                "id": null,
                "parameterSlots": 2,
                "returnSlots": 0
            },

"abi_encode_t_uint256_to_t_uint256_fromStack": {

    "entryPoint": 1581,

    "id": null,

    "parameterSlots": 2,

    "returnSlots": 0

},

"abi_encode_tuple_t_address_t_uint256_t_uint256__to_t_address_t_uint256_t_uint256__fromStack_reversed": {

    "entryPoint": 1596,

    "id": null,

    "parameterSlots": 4,

    "returnSlots": 1

},

"abi_encode_tuple_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf45__to_t_string_memory_ptr__fromStack_reversed": {

    "entryPoint": 1931,

    "id": null,

    "parameterSlots": 1,

    "returnSlots": 1

},

"abi_encode_tuple_t_struct$_Ledger_$7_memory_ptr__to_t_struct$_Ledger_$7_memory_ptr__fromStack_reversed": {

    "entryPoint": 1816,

          "id": null,

          "parameterSlots": 2,

          "returnSlots": 1

        },

        "abi_encode_tuple_t_uint256__to_t_uint256__fromStack_reversed": {

          "entryPoint": 1731,

          "id": null,

          "parameterSlots": 2,

          "returnSlots": 1

        },

"abi_encode_tuple_t_uint256_t_uint256__to_t_uint256_t_uint256__fromStack_reversed": {

          "entryPoint": 1692,

          "id": null,

          "parameterSlots": 3,

          "returnSlots": 1

        },

        "allocate_unbounded": {

          "entryPoint": null,

          "id": null,

          "parameterSlots": 0,

          "returnSlots": 1

        },

        "array_storeLengthForEncoding_t_string_memory_ptr_fromStack": {

          "entryPoint": 1841,

          "id": null,

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      "parameterSlots": 2,

      "returnSlots": 1

},

"checked_add_t_uint256": {

      "entryPoint": 2057,

      "id": null,

      "parameterSlots": 2,

      "returnSlots": 1

},

"checked_sub_t_uint256": {

      "entryPoint": 2006,

      "id": null,

      "parameterSlots": 2,

      "returnSlots": 1

},

"cleanup_t_address": {

      "entryPoint": 1351,

      "id": null,

      "parameterSlots": 1,

      "returnSlots": 1

},

"cleanup_t_uint160": {

      "entryPoint": 1320,

      "id": null,

      "parameterSlots": 1,

      "returnSlots": 1
```

```
            },

            "cleanup_t_uint256": {

                "entryPoint": 1410,

                "id": null,

                "parameterSlots": 1,

                "returnSlots": 1

            },

            "panic_error_0x11": {

                "entryPoint": 1961,

                "id": null,

                "parameterSlots": 0,

                "returnSlots": 0

            },


"revert_error_c1322bf8034eace5e0b5c7295db60986aa89aae5e0ea0873e4689e076861a5db": {

                "entryPoint": null,

                "id": null,

                "parameterSlots": 0,

                "returnSlots": 0

            },


"revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b": {

                "entryPoint": 1316,

                "id": null,

                "parameterSlots": 0,

                "returnSlots": 0
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        },

"store_literal_in_memory_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf

45": {

                "entryPoint": 1857,

                "id": null,

                "parameterSlots": 1,

                "returnSlots": 0

            },

            "validator_revert_t_address": {

                "entryPoint": 1368,

                "id": null,

                "parameterSlots": 1,

                "returnSlots": 0

            },

            "validator_revert_t_uint256": {

                "entryPoint": 1419,

                "id": null,

                "parameterSlots": 1,

                "returnSlots": 0

            }

        },

        "generatedSources": [

            {

                "ast": {

                    "nativeSrc": "0:6381:1",

"nodeType": "YulBlock",

"src": "0:6381:1",

"statements": [

  {

    "body": {

      "nativeSrc": "47:35:1",

      "nodeType": "YulBlock",

      "src": "47:35:1",

      "statements": [

        {

          "nativeSrc": "57:19:1",

          "nodeType": "YulAssignment",

          "src": "57:19:1",

          "value": {

            "arguments": [

              {

                "kind": "number",

                "nativeSrc": "73:2:1",

                "nodeType": "YulLiteral",

                "src": "73:2:1",

                "type": "",

                "value": "64"

              }

            ],

            "functionName": {

              "name": "mload",

```json
                    "nativeSrc": "67:5:1",

                    "nodeType": "YulIdentifier",

                    "src": "67:5:1"

                },

                "nativeSrc": "67:9:1",

                "nodeType": "YulFunctionCall",

                "src": "67:9:1"

            },

            "variableNames": [

                {

                    "name": "memPtr",

                    "nativeSrc": "57:6:1",

                    "nodeType": "YulIdentifier",

                    "src": "57:6:1"

                }

            ]

        }

    ]

},

"name": "allocate_unbounded",

"nativeSrc": "7:75:1",

"nodeType": "YulFunctionDefinition",

"returnVariables": [

    {

        "name": "memPtr",

        "nativeSrc": "40:6:1",
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```json
                    "nodeType": "YulTypedName",

                    "src": "40:6:1",

                    "type": ""

                }

            ],

            "src": "7:75:1"

        },

        {

            "body": {

                "nativeSrc": "177:28:1",

                "nodeType": "YulBlock",

                "src": "177:28:1",

                "statements": [

                    {

                        "expression": {

                            "arguments": [

                                {

                                    "kind": "number",

                                    "nativeSrc": "194:1:1",

                                    "nodeType": "YulLiteral",

                                    "src": "194:1:1",

                                    "type": "",

                                    "value": "0"

                                },

                                {

                                    "kind": "number",
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                              "nativeSrc": "197:1:1",

                              "nodeType": "YulLiteral",

                              "src": "197:1:1",

                              "type": "",

                              "value": "0"

                          }

                      ],

                      "functionName": {

                          "name": "revert",

                          "nativeSrc": "187:6:1",

                          "nodeType": "YulIdentifier",

                          "src": "187:6:1"

                      },

                      "nativeSrc": "187:12:1",

                      "nodeType": "YulFunctionCall",

                      "src": "187:12:1"

                  },

                  "nativeSrc": "187:12:1",

                  "nodeType": "YulExpressionStatement",

                  "src": "187:12:1"

              }

          ]

      },

                                                          "name":

"revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b",

              "nativeSrc": "88:117:1",

          "nodeType": "YulFunctionDefinition",

        "src": "88:117:1"

    },

    {

        "body": {

            "nativeSrc": "300:28:1",

            "nodeType": "YulBlock",

            "src": "300:28:1",

            "statements": [

                {

                    "expression": {

                        "arguments": [

                            {

                                "kind": "number",

                                "nativeSrc": "317:1:1",

                                "nodeType": "YulLiteral",

                                "src": "317:1:1",

                                "type": "",

                                "value": "0"

                            },

                            {

                                "kind": "number",

                                "nativeSrc": "320:1:1",

                                "nodeType": "YulLiteral",

                                "src": "320:1:1",

                                "type": "",

```json
                                "value": "0"
                              }
                            ],
                            "functionName": {
                              "name": "revert",
                              "nativeSrc": "310:6:1",
                              "nodeType": "YulIdentifier",
                              "src": "310:6:1"
                            },
                            "nativeSrc": "310:12:1",
                            "nodeType": "YulFunctionCall",
                            "src": "310:12:1"
                          },
                          "nativeSrc": "310:12:1",
                          "nodeType": "YulExpressionStatement",
                          "src": "310:12:1"
                        }
                      ]
                    },
                    "name": "revert_error_c1322bf8034eace5e0b5c7295db60986aa89aae5e0ea0873e4689e076861a5db",
                    "nativeSrc": "211:117:1",
                    "nodeType": "YulFunctionDefinition",
                    "src": "211:117:1"
                  },
                  {
```

```json
"body": {
  "nativeSrc": "379:81:1",
  "nodeType": "YulBlock",
  "src": "379:81:1",
  "statements": [
    {
      "nativeSrc": "389:65:1",
      "nodeType": "YulAssignment",
      "src": "389:65:1",
      "value": {
        "arguments": [
          {
            "name": "value",
            "nativeSrc": "404:5:1",
            "nodeType": "YulIdentifier",
            "src": "404:5:1"
          },
          {
            "kind": "number",
            "nativeSrc": "411:42:1",
            "nodeType": "YulLiteral",
            "src": "411:42:1",
            "type": "",
            "value": "0xffffffffffffffffffffffffffffffffffffffff"
          }
        ],
```

```json
                        "functionName": {
                            "name": "and",
                            "nativeSrc": "400:3:1",
                            "nodeType": "YulIdentifier",
                            "src": "400:3:1"
                        },
                        "nativeSrc": "400:54:1",
                        "nodeType": "YulFunctionCall",
                        "src": "400:54:1"
                    },
                    "variableNames": [
                        {
                            "name": "cleaned",
                            "nativeSrc": "389:7:1",
                            "nodeType": "YulIdentifier",
                            "src": "389:7:1"
                        }
                    ]
                }
            ]
        },
        "name": "cleanup_t_uint160",
        "nativeSrc": "334:126:1",
        "nodeType": "YulFunctionDefinition",
        "parameters": [
            {
```

                    "name": "value",

                    "nativeSrc": "361:5:1",

                    "nodeType": "YulTypedName",

                    "src": "361:5:1",

                    "type": ""

                }

            ],

            "returnVariables": [

                {

                    "name": "cleaned",

                    "nativeSrc": "371:7:1",

                    "nodeType": "YulTypedName",

                    "src": "371:7:1",

                    "type": ""

                }

            ],

            "src": "334:126:1"

        },

        {

            "body": {

                "nativeSrc": "511:51:1",

                "nodeType": "YulBlock",

                "src": "511:51:1",

                "statements": [

                    {

                        "nativeSrc": "521:35:1",

"nodeType": "YulAssignment",

"src": "521:35:1",

"value": {

  "arguments": [

    {

      "name": "value",

      "nativeSrc": "550:5:1",

      "nodeType": "YulIdentifier",

      "src": "550:5:1"

    }

  ],

  "functionName": {

    "name": "cleanup_t_uint160",

    "nativeSrc": "532:17:1",

    "nodeType": "YulIdentifier",

    "src": "532:17:1"

  },

  "nativeSrc": "532:24:1",

  "nodeType": "YulFunctionCall",

  "src": "532:24:1"

},

"variableNames": [

  {

    "name": "cleaned",

    "nativeSrc": "521:7:1",

    "nodeType": "YulIdentifier",

```json
                "src": "521:7:1"
              }
            ]
          }
        ]
      },
      "name": "cleanup_t_address",
      "nativeSrc": "466:96:1",
      "nodeType": "YulFunctionDefinition",
      "parameters": [
        {
          "name": "value",
          "nativeSrc": "493:5:1",
          "nodeType": "YulTypedName",
          "src": "493:5:1",
          "type": ""
        }
      ],
      "returnVariables": [
        {
          "name": "cleaned",
          "nativeSrc": "503:7:1",
          "nodeType": "YulTypedName",
          "src": "503:7:1",
          "type": ""
        }
```

                ],
                "src": "466:96:1"
            },
            {
                "body": {
                    "nativeSrc": "611:79:1",
                    "nodeType": "YulBlock",
                    "src": "611:79:1",
                    "statements": [
                        {
                            "body": {
                                "nativeSrc": "668:16:1",
                                "nodeType": "YulBlock",
                                "src": "668:16:1",
                                "statements": [
                                    {
                                        "expression": {
                                            "arguments": [
                                                {
                                                    "kind": "number",
                                                    "nativeSrc": "677:1:1",
                                                    "nodeType": "YulLiteral",
                                                    "src": "677:1:1",
                                                    "type": "",
                                                    "value": "0"
                                                },

```json
                                        {
                                            "kind": "number",
                                            "nativeSrc": "680:1:1",
                                            "nodeType": "YulLiteral",
                                            "src": "680:1:1",
                                            "type": "",
                                            "value": "0"
                                        }
                                    ],
                                    "functionName": {
                                        "name": "revert",
                                        "nativeSrc": "670:6:1",
                                        "nodeType": "YulIdentifier",
                                        "src": "670:6:1"
                                    },
                                    "nativeSrc": "670:12:1",
                                    "nodeType": "YulFunctionCall",
                                    "src": "670:12:1"
                                },
                                "nativeSrc": "670:12:1",
                                "nodeType": "YulExpressionStatement",
                                "src": "670:12:1"
                            }
                        ]
                    },
                    "condition": {
```

```
"arguments": [
    {
        "arguments": [
            {
                "name": "value",
                "nativeSrc": "634:5:1",
                "nodeType": "YulIdentifier",
                "src": "634:5:1"
            },
            {
                "arguments": [
                    {
                        "name": "value",
                        "nativeSrc": "659:5:1",
                        "nodeType": "YulIdentifier",
                        "src": "659:5:1"
                    }
                ],
                "functionName": {
                    "name": "cleanup_t_address",
                    "nativeSrc": "641:17:1",
                    "nodeType": "YulIdentifier",
                    "src": "641:17:1"
                },
                "nativeSrc": "641:24:1",
                "nodeType": "YulFunctionCall",
```

```json
                    "src": "641:24:1"
                  }
                ],
                "functionName": {
                  "name": "eq",
                  "nativeSrc": "631:2:1",
                  "nodeType": "YulIdentifier",
                  "src": "631:2:1"
                },
                "nativeSrc": "631:35:1",
                "nodeType": "YulFunctionCall",
                "src": "631:35:1"
              }
            ],
            "functionName": {
              "name": "iszero",
              "nativeSrc": "624:6:1",
              "nodeType": "YulIdentifier",
              "src": "624:6:1"
            },
            "nativeSrc": "624:43:1",
            "nodeType": "YulFunctionCall",
            "src": "624:43:1"
          },
          "nativeSrc": "621:63:1",
          "nodeType": "YulIf",
```

```
                    "src": "621:63:1"
                }
            ]
        },
        "name": "validator_revert_t_address",
        "nativeSrc": "568:122:1",
        "nodeType": "YulFunctionDefinition",
        "parameters": [
            {
                "name": "value",
                "nativeSrc": "604:5:1",
                "nodeType": "YulTypedName",
                "src": "604:5:1",
                "type": ""
            }
        ],
        "src": "568:122:1"
    },
    {
        "body": {
            "nativeSrc": "748:87:1",
            "nodeType": "YulBlock",
            "src": "748:87:1",
            "statements": [
                {
                    "nativeSrc": "758:29:1",
```

```json
        "nodeType": "YulAssignment",

        "src": "758:29:1",

        "value": {

            "arguments": [

                {

                    "name": "offset",

                    "nativeSrc": "780:6:1",

                    "nodeType": "YulIdentifier",

                    "src": "780:6:1"

                }

            ],

            "functionName": {

                "name": "calldataload",

                "nativeSrc": "767:12:1",

                "nodeType": "YulIdentifier",

                "src": "767:12:1"

            },

            "nativeSrc": "767:20:1",

            "nodeType": "YulFunctionCall",

            "src": "767:20:1"

        },

        "variableNames": [

            {

                "name": "value",

                "nativeSrc": "758:5:1",

                "nodeType": "YulIdentifier",
```

```json
                            "src": "758:5:1"
                        }
                    ]
                },
                {
                    "expression": {
                        "arguments": [
                            {
                                "name": "value",
                                "nativeSrc": "823:5:1",
                                "nodeType": "YulIdentifier",
                                "src": "823:5:1"
                            }
                        ],
                        "functionName": {
                            "name": "validator_revert_t_address",
                            "nativeSrc": "796:26:1",
                            "nodeType": "YulIdentifier",
                            "src": "796:26:1"
                        },
                        "nativeSrc": "796:33:1",
                        "nodeType": "YulFunctionCall",
                        "src": "796:33:1"
                    },
                    "nativeSrc": "796:33:1",
                    "nodeType": "YulExpressionStatement",
```

```json
              "src": "796:33:1"
            }
          ]
        },
        "name": "abi_decode_t_address",
        "nativeSrc": "696:139:1",
        "nodeType": "YulFunctionDefinition",
        "parameters": [
          {
            "name": "offset",
            "nativeSrc": "726:6:1",
            "nodeType": "YulTypedName",
            "src": "726:6:1",
            "type": ""
          },
          {
            "name": "end",
            "nativeSrc": "734:3:1",
            "nodeType": "YulTypedName",
            "src": "734:3:1",
            "type": ""
          }
        ],
        "returnVariables": [
          {
            "name": "value",
```

                    "nativeSrc": "742:5:1",

                    "nodeType": "YulTypedName",

                    "src": "742:5:1",

                    "type": ""

                }

            ],

            "src": "696:139:1"

        },

        {

            "body": {

                "nativeSrc": "886:32:1",

                "nodeType": "YulBlock",

                "src": "886:32:1",

                "statements": [

                    {

                        "nativeSrc": "896:16:1",

                        "nodeType": "YulAssignment",

                        "src": "896:16:1",

                        "value": {

                            "name": "value",

                            "nativeSrc": "907:5:1",

                            "nodeType": "YulIdentifier",

                            "src": "907:5:1"

                        },

                        "variableNames": [

                            {

```json
                              "name": "cleaned",

                              "nativeSrc": "896:7:1",

                              "nodeType": "YulIdentifier",

                              "src": "896:7:1"

                          }
                      ]
                  }
              ]
          },

          "name": "cleanup_t_uint256",

          "nativeSrc": "841:77:1",

          "nodeType": "YulFunctionDefinition",

          "parameters": [
              {
                  "name": "value",

                  "nativeSrc": "868:5:1",

                  "nodeType": "YulTypedName",

                  "src": "868:5:1",

                  "type": ""
              }
          ],

          "returnVariables": [
              {
                  "name": "cleaned",

                  "nativeSrc": "878:7:1",

                  "nodeType": "YulTypedName",
```

```
                        "src": "878:7:1",

                        "type": ""

                }
        ],

        "src": "841:77:1"

},

{

    "body": {

        "nativeSrc": "967:79:1",

        "nodeType": "YulBlock",

        "src": "967:79:1",

        "statements": [

            {

                "body": {

                    "nativeSrc": "1024:16:1",

                    "nodeType": "YulBlock",

                    "src": "1024:16:1",

                    "statements": [

                        {

                            "expression": {

                                "arguments": [

                                    {

                                        "kind": "number",

                                        "nativeSrc": "1033:1:1",

                                        "nodeType": "YulLiteral",

                                        "src": "1033:1:1",
```

```json
                            "type": "",

                            "value": "0"

                        },

                        {

                            "kind": "number",

                            "nativeSrc": "1036:1:1",

                            "nodeType": "YulLiteral",

                            "src": "1036:1:1",

                            "type": "",

                            "value": "0"

                        }

                    ],

                    "functionName": {

                        "name": "revert",

                        "nativeSrc": "1026:6:1",

                        "nodeType": "YulIdentifier",

                        "src": "1026:6:1"

                    },

                    "nativeSrc": "1026:12:1",

                    "nodeType": "YulFunctionCall",

                    "src": "1026:12:1"

                },

                "nativeSrc": "1026:12:1",

                "nodeType": "YulExpressionStatement",

                "src": "1026:12:1"

            }
```

```
                    ]
                },
                "condition": {
                    "arguments": [
                        {
                            "arguments": [
                                {
                                    "name": "value",
                                    "nativeSrc": "990:5:1",
                                    "nodeType": "YulIdentifier",
                                    "src": "990:5:1"
                                },
                                {
                                    "arguments": [
                                        {
                                            "name": "value",
                                            "nativeSrc": "1015:5:1",
                                            "nodeType": "YulIdentifier",
                                            "src": "1015:5:1"
                                        }
                                    ],
                                    "functionName": {
                                        "name": "cleanup_t_uint256",
                                        "nativeSrc": "997:17:1",
                                        "nodeType": "YulIdentifier",
                                        "src": "997:17:1"
```

```json
                },
                "nativeSrc": "997:24:1",
                "nodeType": "YulFunctionCall",
                "src": "997:24:1"
              }
            ],
            "functionName": {
                "name": "eq",
                "nativeSrc": "987:2:1",
                "nodeType": "YulIdentifier",
                "src": "987:2:1"
            },
            "nativeSrc": "987:35:1",
            "nodeType": "YulFunctionCall",
            "src": "987:35:1"
          }
        ],
        "functionName": {
            "name": "iszero",
            "nativeSrc": "980:6:1",
            "nodeType": "YulIdentifier",
            "src": "980:6:1"
        },
        "nativeSrc": "980:43:1",
        "nodeType": "YulFunctionCall",
        "src": "980:43:1"
```

```
                    },
                    "nativeSrc": "977:63:1",
                    "nodeType": "YulIf",
                    "src": "977:63:1"
                }
            ]
        },
        "name": "validator_revert_t_uint256",
        "nativeSrc": "924:122:1",
        "nodeType": "YulFunctionDefinition",
        "parameters": [
            {
                "name": "value",
                "nativeSrc": "960:5:1",
                "nodeType": "YulTypedName",
                "src": "960:5:1",
                "type": ""
            }
        ],
        "src": "924:122:1"
    },
    {
        "body": {
            "nativeSrc": "1104:87:1",
            "nodeType": "YulBlock",
            "src": "1104:87:1",
```

```json
"statements": [
    {
        "nativeSrc": "1114:29:1",
        "nodeType": "YulAssignment",
        "src": "1114:29:1",
        "value": {
            "arguments": [
                {
                    "name": "offset",
                    "nativeSrc": "1136:6:1",
                    "nodeType": "YulIdentifier",
                    "src": "1136:6:1"
                }
            ],
            "functionName": {
                "name": "calldataload",
                "nativeSrc": "1123:12:1",
                "nodeType": "YulIdentifier",
                "src": "1123:12:1"
            },
            "nativeSrc": "1123:20:1",
            "nodeType": "YulFunctionCall",
            "src": "1123:20:1"
        },
        "variableNames": [
            {
```

```
                        "name": "value",

                        "nativeSrc": "1114:5:1",

                        "nodeType": "YulIdentifier",

                        "src": "1114:5:1"

                    }

                ]

            },

            {

                "expression": {

                    "arguments": [

                        {

                            "name": "value",

                            "nativeSrc": "1179:5:1",

                            "nodeType": "YulIdentifier",

                            "src": "1179:5:1"

                        }

                    ],

                    "functionName": {

                        "name": "validator_revert_t_uint256",

                        "nativeSrc": "1152:26:1",

                        "nodeType": "YulIdentifier",

                        "src": "1152:26:1"

                    },

                    "nativeSrc": "1152:33:1",

                    "nodeType": "YulFunctionCall",

                    "src": "1152:33:1"
```

```
            },
            "nativeSrc": "1152:33:1",
            "nodeType": "YulExpressionStatement",
            "src": "1152:33:1"
          }
        ]
      },
      "name": "abi_decode_t_uint256",
      "nativeSrc": "1052:139:1",
      "nodeType": "YulFunctionDefinition",
      "parameters": [
        {
          "name": "offset",
          "nativeSrc": "1082:6:1",
          "nodeType": "YulTypedName",
          "src": "1082:6:1",
          "type": ""
        },
        {
          "name": "end",
          "nativeSrc": "1090:3:1",
          "nodeType": "YulTypedName",
          "src": "1090:3:1",
          "type": ""
        }
      ],
```

```
            "returnVariables": [
                {
                    "name": "value",
                    "nativeSrc": "1098:5:1",
                    "nodeType": "YulTypedName",
                    "src": "1098:5:1",
                    "type": ""
                }
            ],
            "src": "1052:139:1"
        },
        {
            "body": {
                "nativeSrc": "1280:391:1",
                "nodeType": "YulBlock",
                "src": "1280:391:1",
                "statements": [
                    {
                        "body": {
                            "nativeSrc": "1326:83:1",
                            "nodeType": "YulBlock",
                            "src": "1326:83:1",
                            "statements": [
                                {
                                    "expression": {
                                        "arguments": [],
```

```
                    "functionName": {

                                                "name":

"revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b",

                        "nativeSrc": "1328:77:1",

                        "nodeType": "YulIdentifier",

                        "src": "1328:77:1"

                    },

                    "nativeSrc": "1328:79:1",

                    "nodeType": "YulFunctionCall",

                    "src": "1328:79:1"

                },

                "nativeSrc": "1328:79:1",

                "nodeType": "YulExpressionStatement",

                "src": "1328:79:1"

            }

        ]

    },

    "condition": {

        "arguments": [

            {

                "arguments": [

                    {

                        "name": "dataEnd",

                        "nativeSrc": "1301:7:1",

                        "nodeType": "YulIdentifier",

                        "src": "1301:7:1"
```

```json
          },
          {
            "name": "headStart",
            "nativeSrc": "1310:9:1",
            "nodeType": "YulIdentifier",
            "src": "1310:9:1"
          }
        ],
        "functionName": {
          "name": "sub",
          "nativeSrc": "1297:3:1",
          "nodeType": "YulIdentifier",
          "src": "1297:3:1"
        },
        "nativeSrc": "1297:23:1",
        "nodeType": "YulFunctionCall",
        "src": "1297:23:1"
      },
      {
        "kind": "number",
        "nativeSrc": "1322:2:1",
        "nodeType": "YulLiteral",
        "src": "1322:2:1",
        "type": "",
        "value": "64"
      }
```

```
                    ],
                    "functionName": {
                        "name": "slt",
                        "nativeSrc": "1293:3:1",
                        "nodeType": "YulIdentifier",
                        "src": "1293:3:1"
                    },
                    "nativeSrc": "1293:32:1",
                    "nodeType": "YulFunctionCall",
                    "src": "1293:32:1"
                },
                "nativeSrc": "1290:119:1",
                "nodeType": "YulIf",
                "src": "1290:119:1"
            },
            {
                "nativeSrc": "1419:117:1",
                "nodeType": "YulBlock",
                "src": "1419:117:1",
                "statements": [
                    {
                        "nativeSrc": "1434:15:1",
                        "nodeType": "YulVariableDeclaration",
                        "src": "1434:15:1",
                        "value": {
                            "kind": "number",
```

          "nativeSrc": "1448:1:1",

          "nodeType": "YulLiteral",

          "src": "1448:1:1",

          "type": "",

          "value": "0"

        },

        "variables": [

          {

            "name": "offset",

            "nativeSrc": "1438:6:1",

            "nodeType": "YulTypedName",

            "src": "1438:6:1",

            "type": ""

          }

        ]

      },

      {

        "nativeSrc": "1463:63:1",

        "nodeType": "YulAssignment",

        "src": "1463:63:1",

        "value": {

          "arguments": [

            {

              "arguments": [

                {

                  "name": "headStart",

```json
          "nativeSrc": "1498:9:1",

          "nodeType": "YulIdentifier",

          "src": "1498:9:1"

        },

        {

          "name": "offset",

          "nativeSrc": "1509:6:1",

          "nodeType": "YulIdentifier",

          "src": "1509:6:1"

        }

      ],

      "functionName": {

        "name": "add",

        "nativeSrc": "1494:3:1",

        "nodeType": "YulIdentifier",

        "src": "1494:3:1"

      },

      "nativeSrc": "1494:22:1",

      "nodeType": "YulFunctionCall",

      "src": "1494:22:1"

    },

    {

      "name": "dataEnd",

      "nativeSrc": "1518:7:1",

      "nodeType": "YulIdentifier",

      "src": "1518:7:1"
```

```json
                    }
                  ],
                  "functionName": {
                    "name": "abi_decode_t_address",
                    "nativeSrc": "1473:20:1",
                    "nodeType": "YulIdentifier",
                    "src": "1473:20:1"
                  },
                  "nativeSrc": "1473:53:1",
                  "nodeType": "YulFunctionCall",
                  "src": "1473:53:1"
                },
                "variableNames": [
                  {
                    "name": "value0",
                    "nativeSrc": "1463:6:1",
                    "nodeType": "YulIdentifier",
                    "src": "1463:6:1"
                  }
                ]
              }
            ]
          },
          {
            "nativeSrc": "1546:118:1",
            "nodeType": "YulBlock",
```

```json
      "src": "1546:118:1",
      "statements": [
        {
          "nativeSrc": "1561:16:1",
          "nodeType": "YulVariableDeclaration",
          "src": "1561:16:1",
          "value": {
            "kind": "number",
            "nativeSrc": "1575:2:1",
            "nodeType": "YulLiteral",
            "src": "1575:2:1",
            "type": "",
            "value": "32"
          },
          "variables": [
            {
              "name": "offset",
              "nativeSrc": "1565:6:1",
              "nodeType": "YulTypedName",
              "src": "1565:6:1",
              "type": ""
            }
          ]
        },
        {
          "nativeSrc": "1591:63:1",
```

"nodeType": "YulAssignment",

"src": "1591:63:1",

"value": {

  "arguments": [

    {

      "arguments": [

        {

          "name": "headStart",

          "nativeSrc": "1626:9:1",

          "nodeType": "YulIdentifier",

          "src": "1626:9:1"

        },

        {

          "name": "offset",

          "nativeSrc": "1637:6:1",

          "nodeType": "YulIdentifier",

          "src": "1637:6:1"

        }

      ],

      "functionName": {

        "name": "add",

        "nativeSrc": "1622:3:1",

        "nodeType": "YulIdentifier",

        "src": "1622:3:1"

      },

      "nativeSrc": "1622:22:1",

                "nodeType": "YulFunctionCall",

                "src": "1622:22:1"

            },

            {

                "name": "dataEnd",

                "nativeSrc": "1646:7:1",

                "nodeType": "YulIdentifier",

                "src": "1646:7:1"

            }

        ],

        "functionName": {

            "name": "abi_decode_t_uint256",

            "nativeSrc": "1601:20:1",

            "nodeType": "YulIdentifier",

            "src": "1601:20:1"

        },

        "nativeSrc": "1601:53:1",

        "nodeType": "YulFunctionCall",

        "src": "1601:53:1"

    },

    "variableNames": [

        {

            "name": "value1",

            "nativeSrc": "1591:6:1",

            "nodeType": "YulIdentifier",

            "src": "1591:6:1"

```json
          }
        ]
      }
    ]
  },
  "name": "abi_decode_tuple_t_addresst_uint256",
  "nativeSrc": "1197:474:1",
  "nodeType": "YulFunctionDefinition",
  "parameters": [
    {
      "name": "headStart",
      "nativeSrc": "1242:9:1",
      "nodeType": "YulTypedName",
      "src": "1242:9:1",
      "type": ""
    },
    {
      "name": "dataEnd",
      "nativeSrc": "1253:7:1",
      "nodeType": "YulTypedName",
      "src": "1253:7:1",
      "type": ""
    }
  ],
```

```json
                        "returnVariables": [
                            {
                                "name": "value0",
                                "nativeSrc": "1265:6:1",
                                "nodeType": "YulTypedName",
                                "src": "1265:6:1",
                                "type": ""
                            },
                            {
                                "name": "value1",
                                "nativeSrc": "1273:6:1",
                                "nodeType": "YulTypedName",
                                "src": "1273:6:1",
                                "type": ""
                            }
                        ],
                        "src": "1197:474:1"
                    },
                    {
                        "body": {
                            "nativeSrc": "1743:263:1",
                            "nodeType": "YulBlock",
                            "src": "1743:263:1",
                            "statements": [
                                {
                                    "body": {
```

                    "nativeSrc": "1789:83:1",

                    "nodeType": "YulBlock",

                    "src": "1789:83:1",

                    "statements": [
                        {
                            "expression": {

                                "arguments": [],

                                "functionName": {

                                    "name":

"revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b",

                                    "nativeSrc": "1791:77:1",

                                    "nodeType": "YulIdentifier",

                                    "src": "1791:77:1"

                                },

                                "nativeSrc": "1791:79:1",

                                "nodeType": "YulFunctionCall",

                                "src": "1791:79:1"

                            },

                            "nativeSrc": "1791:79:1",

                            "nodeType": "YulExpressionStatement",

                            "src": "1791:79:1"

                        }

                    ]

                },

                "condition": {

                    "arguments": [

```json
{
  "arguments": [
    {
      "name": "dataEnd",
      "nativeSrc": "1764:7:1",
      "nodeType": "YulIdentifier",
      "src": "1764:7:1"
    },
    {
      "name": "headStart",
      "nativeSrc": "1773:9:1",
      "nodeType": "YulIdentifier",
      "src": "1773:9:1"
    }
  ],
  "functionName": {
    "name": "sub",
    "nativeSrc": "1760:3:1",
    "nodeType": "YulIdentifier",
    "src": "1760:3:1"
  },
  "nativeSrc": "1760:23:1",
  "nodeType": "YulFunctionCall",
  "src": "1760:23:1"
},
{
```

                    "kind": "number",

                    "nativeSrc": "1785:2:1",

                    "nodeType": "YulLiteral",

                    "src": "1785:2:1",

                    "type": "",

                    "value": "32"

                }

            ],

            "functionName": {

                "name": "slt",

                "nativeSrc": "1756:3:1",

                "nodeType": "YulIdentifier",

                "src": "1756:3:1"

            },

            "nativeSrc": "1756:32:1",

            "nodeType": "YulFunctionCall",

            "src": "1756:32:1"

        },

        "nativeSrc": "1753:119:1",

        "nodeType": "YulIf",

        "src": "1753:119:1"

    },

    {

        "nativeSrc": "1882:117:1",

        "nodeType": "YulBlock",

        "src": "1882:117:1",

```json
"statements": [
    {
        "nativeSrc": "1897:15:1",
        "nodeType": "YulVariableDeclaration",
        "src": "1897:15:1",
        "value": {
            "kind": "number",
            "nativeSrc": "1911:1:1",
            "nodeType": "YulLiteral",
            "src": "1911:1:1",
            "type": "",
            "value": "0"
        },
        "variables": [
            {
                "name": "offset",
                "nativeSrc": "1901:6:1",
                "nodeType": "YulTypedName",
                "src": "1901:6:1",
                "type": ""
            }
        ]
    },
    {
        "nativeSrc": "1926:63:1",
        "nodeType": "YulAssignment",
```

```json
"src": "1926:63:1",
"value": {
  "arguments": [
    {
      "arguments": [
        {
          "name": "headStart",
          "nativeSrc": "1961:9:1",
          "nodeType": "YulIdentifier",
          "src": "1961:9:1"
        },
        {
          "name": "offset",
          "nativeSrc": "1972:6:1",
          "nodeType": "YulIdentifier",
          "src": "1972:6:1"
        }
      ],
      "functionName": {
        "name": "add",
        "nativeSrc": "1957:3:1",
        "nodeType": "YulIdentifier",
        "src": "1957:3:1"
      },
      "nativeSrc": "1957:22:1",
      "nodeType": "YulFunctionCall",
```

              "src": "1957:22:1"
            },
            {
              "name": "dataEnd",
              "nativeSrc": "1981:7:1",
              "nodeType": "YulIdentifier",
              "src": "1981:7:1"
            }
          ],
          "functionName": {
            "name": "abi_decode_t_uint256",
            "nativeSrc": "1936:20:1",
            "nodeType": "YulIdentifier",
            "src": "1936:20:1"
          },
          "nativeSrc": "1936:53:1",
          "nodeType": "YulFunctionCall",
          "src": "1936:53:1"
        },
        "variableNames": [
          {
            "name": "value0",
            "nativeSrc": "1926:6:1",
            "nodeType": "YulIdentifier",
            "src": "1926:6:1"
          }

```json
                    ]
                }
            ]
        }
    ]
},
"name": "abi_decode_tuple_t_uint256",
"nativeSrc": "1677:329:1",
"nodeType": "YulFunctionDefinition",
"parameters": [
    {
        "name": "headStart",
        "nativeSrc": "1713:9:1",
        "nodeType": "YulTypedName",
        "src": "1713:9:1",
        "type": ""
    },
    {
        "name": "dataEnd",
        "nativeSrc": "1724:7:1",
        "nodeType": "YulTypedName",
        "src": "1724:7:1",
        "type": ""
    }
],
"returnVariables": [
```

```json
          {
            "name": "value0",

            "nativeSrc": "1736:6:1",

            "nodeType": "YulTypedName",

            "src": "1736:6:1",

            "type": ""
          }
        ],

        "src": "1677:329:1"
      },

      {

        "body": {

          "nativeSrc": "2077:53:1",

          "nodeType": "YulBlock",

          "src": "2077:53:1",

          "statements": [
            {

              "expression": {

                "arguments": [
                  {

                    "name": "pos",

                    "nativeSrc": "2094:3:1",

                    "nodeType": "YulIdentifier",

                    "src": "2094:3:1"
                  },
                  {
```

```json
              "arguments": [
                {
                  "name": "value",
                  "nativeSrc": "2117:5:1",
                  "nodeType": "YulIdentifier",
                  "src": "2117:5:1"
                }
              ],
              "functionName": {
                "name": "cleanup_t_address",
                "nativeSrc": "2099:17:1",
                "nodeType": "YulIdentifier",
                "src": "2099:17:1"
              },
              "nativeSrc": "2099:24:1",
              "nodeType": "YulFunctionCall",
              "src": "2099:24:1"
            }
          ],
          "functionName": {
            "name": "mstore",
            "nativeSrc": "2087:6:1",
            "nodeType": "YulIdentifier",
            "src": "2087:6:1"
          },
          "nativeSrc": "2087:37:1",
```

                                "nodeType": "YulFunctionCall",

                                "src": "2087:37:1"

                            },

                            "nativeSrc": "2087:37:1",

                            "nodeType": "YulExpressionStatement",

                            "src": "2087:37:1"

                        }

                    ]

                },

                "name": "abi_encode_t_address_to_t_address_fromStack",

                "nativeSrc": "2012:118:1",

                "nodeType": "YulFunctionDefinition",

                "parameters": [

                    {

                        "name": "value",

                        "nativeSrc": "2065:5:1",

                        "nodeType": "YulTypedName",

                        "src": "2065:5:1",

                        "type": ""

                    },

                    {

                        "name": "pos",

                        "nativeSrc": "2072:3:1",

                        "nodeType": "YulTypedName",

                        "src": "2072:3:1",

                        "type": ""

```
        }
      ],
      "src": "2012:118:1"
    },
    {
      "body": {
        "nativeSrc": "2201:53:1",
        "nodeType": "YulBlock",
        "src": "2201:53:1",
        "statements": [
          {
            "expression": {
              "arguments": [
                {
                  "name": "pos",
                  "nativeSrc": "2218:3:1",
                  "nodeType": "YulIdentifier",
                  "src": "2218:3:1"
                },
                {
                  "arguments": [
                    {
                      "name": "value",
                      "nativeSrc": "2241:5:1",
                      "nodeType": "YulIdentifier",
                      "src": "2241:5:1"
```

                }
              ],

              "functionName": {

                "name": "cleanup_t_uint256",

                "nativeSrc": "2223:17:1",

                "nodeType": "YulIdentifier",

                "src": "2223:17:1"

              },

              "nativeSrc": "2223:24:1",

              "nodeType": "YulFunctionCall",

              "src": "2223:24:1"

            }

          ],

          "functionName": {

            "name": "mstore",

            "nativeSrc": "2211:6:1",

            "nodeType": "YulIdentifier",

            "src": "2211:6:1"

          },

          "nativeSrc": "2211:37:1",

          "nodeType": "YulFunctionCall",

          "src": "2211:37:1"

        },

        "nativeSrc": "2211:37:1",

        "nodeType": "YulExpressionStatement",

        "src": "2211:37:1"

```
            }
        ]
    },
    "name": "abi_encode_t_uint256_to_t_uint256_fromStack",
    "nativeSrc": "2136:118:1",
    "nodeType": "YulFunctionDefinition",
    "parameters": [
        {
            "name": "value",
            "nativeSrc": "2189:5:1",
            "nodeType": "YulTypedName",
            "src": "2189:5:1",
            "type": ""
        },
        {
            "name": "pos",
            "nativeSrc": "2196:3:1",
            "nodeType": "YulTypedName",
            "src": "2196:3:1",
            "type": ""
        }
    ],
    "src": "2136:118:1"
},
{
    "body": {
```

```json
"nativeSrc": "2414:288:1",

"nodeType": "YulBlock",

"src": "2414:288:1",

"statements": [

    {

        "nativeSrc": "2424:26:1",

        "nodeType": "YulAssignment",

        "src": "2424:26:1",

        "value": {

            "arguments": [

                {

                    "name": "headStart",

                    "nativeSrc": "2436:9:1",

                    "nodeType": "YulIdentifier",

                    "src": "2436:9:1"

                },

                {

                    "kind": "number",

                    "nativeSrc": "2447:2:1",

                    "nodeType": "YulLiteral",

                    "src": "2447:2:1",

                    "type": "",

                    "value": "96"

                }

            ],

            "functionName": {
```

```json
              "name": "add",

              "nativeSrc": "2432:3:1",

              "nodeType": "YulIdentifier",

              "src": "2432:3:1"

            },

            "nativeSrc": "2432:18:1",

            "nodeType": "YulFunctionCall",

            "src": "2432:18:1"

          },

          "variableNames": [

            {

              "name": "tail",

              "nativeSrc": "2424:4:1",

              "nodeType": "YulIdentifier",

              "src": "2424:4:1"

            }

          ]

        },

        {

          "expression": {

            "arguments": [

              {

                "name": "value0",

                "nativeSrc": "2504:6:1",

                "nodeType": "YulIdentifier",

                "src": "2504:6:1"
```

```json
        },
        {
            "arguments": [
                {
                    "name": "headStart",
                    "nativeSrc": "2517:9:1",
                    "nodeType": "YulIdentifier",
                    "src": "2517:9:1"
                },
                {
                    "kind": "number",
                    "nativeSrc": "2528:1:1",
                    "nodeType": "YulLiteral",
                    "src": "2528:1:1",
                    "type": "",
                    "value": "0"
                }
            ],
            "functionName": {
                "name": "add",
                "nativeSrc": "2513:3:1",
                "nodeType": "YulIdentifier",
                "src": "2513:3:1"
            },
            "nativeSrc": "2513:17:1",
            "nodeType": "YulFunctionCall",
```

                                                "src": "2513:17:1"

                                            }

                                        ],

                                        "functionName": {

                                                                            "name":

"abi_encode_t_address_to_t_address_fromStack",

                                            "nativeSrc": "2460:43:1",

                                            "nodeType": "YulIdentifier",

                                            "src": "2460:43:1"

                                        },

                                        "nativeSrc": "2460:71:1",

                                        "nodeType": "YulFunctionCall",

                                        "src": "2460:71:1"

                                    },

                                    "nativeSrc": "2460:71:1",

                                    "nodeType": "YulExpressionStatement",

                                    "src": "2460:71:1"

                                },

                                {

                                    "expression": {

                                        "arguments": [

                                            {

                                                "name": "value1",

                                                "nativeSrc": "2585:6:1",

                                                "nodeType": "YulIdentifier",

                                                "src": "2585:6:1"

```json
      },
      {
        "arguments": [
          {
            "name": "headStart",
            "nativeSrc": "2598:9:1",
            "nodeType": "YulIdentifier",
            "src": "2598:9:1"
          },
          {
            "kind": "number",
            "nativeSrc": "2609:2:1",
            "nodeType": "YulLiteral",
            "src": "2609:2:1",
            "type": "",
            "value": "32"
          }
        ],
        "functionName": {
          "name": "add",
          "nativeSrc": "2594:3:1",
          "nodeType": "YulIdentifier",
          "src": "2594:3:1"
        },
        "nativeSrc": "2594:18:1",
        "nodeType": "YulFunctionCall",
```

                    "src": "2594:18:1"

                }

            ],

            "functionName": {

                                        "name":

"abi_encode_t_uint256_to_t_uint256_fromStack",

                    "nativeSrc": "2541:43:1",

                    "nodeType": "YulIdentifier",

                    "src": "2541:43:1"

                },

                "nativeSrc": "2541:72:1",

                "nodeType": "YulFunctionCall",

                "src": "2541:72:1"

            },

            "nativeSrc": "2541:72:1",

            "nodeType": "YulExpressionStatement",

            "src": "2541:72:1"

        },

        {

            "expression": {

                "arguments": [

                    {

                        "name": "value2",

                        "nativeSrc": "2667:6:1",

                        "nodeType": "YulIdentifier",

                        "src": "2667:6:1"

```json
          },
          {
            "arguments": [
              {
                "name": "headStart",
                "nativeSrc": "2680:9:1",
                "nodeType": "YulIdentifier",
                "src": "2680:9:1"
              },
              {
                "kind": "number",
                "nativeSrc": "2691:2:1",
                "nodeType": "YulLiteral",
                "src": "2691:2:1",
                "type": "",
                "value": "64"
              }
            ],
            "functionName": {
              "name": "add",
              "nativeSrc": "2676:3:1",
              "nodeType": "YulIdentifier",
              "src": "2676:3:1"
            },
            "nativeSrc": "2676:18:1",
            "nodeType": "YulFunctionCall",
```

"src": "2676:18:1"

                    }

                ],

                "functionName": {

                                    "name":

"abi_encode_t_uint256_to_t_uint256_fromStack",

                        "nativeSrc": "2623:43:1",

                        "nodeType": "YulIdentifier",

                        "src": "2623:43:1"

                    },

                    "nativeSrc": "2623:72:1",

                    "nodeType": "YulFunctionCall",

                    "src": "2623:72:1"

                },

                "nativeSrc": "2623:72:1",

                "nodeType": "YulExpressionStatement",

                "src": "2623:72:1"

            }

        ]

    },

                            "name":

"abi_encode_tuple_t_address_t_uint256_t_uint256__to_t_address_t_uint256_t_uint256__fromStack
_reversed",

            "nativeSrc": "2260:442:1",

            "nodeType": "YulFunctionDefinition",

            "parameters": [

```json
{
    "name": "headStart",
    "nativeSrc": "2370:9:1",
    "nodeType": "YulTypedName",
    "src": "2370:9:1",
    "type": ""
},
{
    "name": "value2",
    "nativeSrc": "2382:6:1",
    "nodeType": "YulTypedName",
    "src": "2382:6:1",
    "type": ""
},
{
    "name": "value1",
    "nativeSrc": "2390:6:1",
    "nodeType": "YulTypedName",
    "src": "2390:6:1",
    "type": ""
},
{
    "name": "value0",
    "nativeSrc": "2398:6:1",
    "nodeType": "YulTypedName",
    "src": "2398:6:1",
```

```json
          "type": ""
        }
      ],
      "returnVariables": [
        {
          "name": "tail",
          "nativeSrc": "2409:4:1",
          "nodeType": "YulTypedName",
          "src": "2409:4:1",
          "type": ""
        }
      ],
      "src": "2260:442:1"
    },
    {
      "body": {
        "nativeSrc": "2774:263:1",
        "nodeType": "YulBlock",
        "src": "2774:263:1",
        "statements": [
          {
            "body": {
              "nativeSrc": "2820:83:1",
              "nodeType": "YulBlock",
              "src": "2820:83:1",
              "statements": [
```

```
                        {
                            "expression": {
                                "arguments": [],
                                "functionName": {
                                                        "name":
"revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b",
                                    "nativeSrc": "2822:77:1",
                                    "nodeType": "YulIdentifier",
                                    "src": "2822:77:1"
                                },
                                "nativeSrc": "2822:79:1",
                                "nodeType": "YulFunctionCall",
                                "src": "2822:79:1"
                            },
                            "nativeSrc": "2822:79:1",
                            "nodeType": "YulExpressionStatement",
                            "src": "2822:79:1"
                        }
                    ]
                },
                "condition": {
                    "arguments": [
                        {
                            "arguments": [
                                {
                                    "name": "dataEnd",
```

```json
              "nativeSrc": "2795:7:1",

              "nodeType": "YulIdentifier",

              "src": "2795:7:1"

          },

          {

              "name": "headStart",

              "nativeSrc": "2804:9:1",

              "nodeType": "YulIdentifier",

              "src": "2804:9:1"

          }

      ],

      "functionName": {

          "name": "sub",

          "nativeSrc": "2791:3:1",

          "nodeType": "YulIdentifier",

          "src": "2791:3:1"

      },

      "nativeSrc": "2791:23:1",

      "nodeType": "YulFunctionCall",

      "src": "2791:23:1"

  },

  {

      "kind": "number",

      "nativeSrc": "2816:2:1",

      "nodeType": "YulLiteral",

      "src": "2816:2:1",
```

```json
                    "type": "",

                    "value": "32"

                }

            ],

            "functionName": {

                "name": "slt",

                "nativeSrc": "2787:3:1",

                "nodeType": "YulIdentifier",

                "src": "2787:3:1"

            },

            "nativeSrc": "2787:32:1",

            "nodeType": "YulFunctionCall",

            "src": "2787:32:1"

        },

        "nativeSrc": "2784:119:1",

        "nodeType": "YulIf",

        "src": "2784:119:1"

    },

    {

        "nativeSrc": "2913:117:1",

        "nodeType": "YulBlock",

        "src": "2913:117:1",

        "statements": [

            {

                "nativeSrc": "2928:15:1",

                "nodeType": "YulVariableDeclaration",
```

              "src": "2928:15:1",

              "value": {

                  "kind": "number",

                  "nativeSrc": "2942:1:1",

                  "nodeType": "YulLiteral",

                  "src": "2942:1:1",

                  "type": "",

                  "value": "0"

              },

              "variables": [

                  {

                      "name": "offset",

                      "nativeSrc": "2932:6:1",

                      "nodeType": "YulTypedName",

                      "src": "2932:6:1",

                      "type": ""

                  }

              ]

          },

          {

              "nativeSrc": "2957:63:1",

              "nodeType": "YulAssignment",

              "src": "2957:63:1",

              "value": {

                  "arguments": [

                      {

```json
      "arguments": [
        {
          "name": "headStart",
          "nativeSrc": "2992:9:1",
          "nodeType": "YulIdentifier",
          "src": "2992:9:1"
        },
        {
          "name": "offset",
          "nativeSrc": "3003:6:1",
          "nodeType": "YulIdentifier",
          "src": "3003:6:1"
        }
      ],
      "functionName": {
        "name": "add",
        "nativeSrc": "2988:3:1",
        "nodeType": "YulIdentifier",
        "src": "2988:3:1"
      },
      "nativeSrc": "2988:22:1",
      "nodeType": "YulFunctionCall",
      "src": "2988:22:1"
    },
    {
      "name": "dataEnd",
```

                    "nativeSrc": "3012:7:1",

                    "nodeType": "YulIdentifier",

                    "src": "3012:7:1"

                }

            ],

            "functionName": {

                "name": "abi_decode_t_address",

                "nativeSrc": "2967:20:1",

                "nodeType": "YulIdentifier",

                "src": "2967:20:1"

            },

            "nativeSrc": "2967:53:1",

            "nodeType": "YulFunctionCall",

            "src": "2967:53:1"

        },

        "variableNames": [

            {

                "name": "value0",

                "nativeSrc": "2957:6:1",

                "nodeType": "YulIdentifier",

                "src": "2957:6:1"

            }

        ]

    }

]

}

```
                ]
            },
            "name": "abi_decode_tuple_t_address",
            "nativeSrc": "2708:329:1",
            "nodeType": "YulFunctionDefinition",
            "parameters": [
                {
                    "name": "headStart",
                    "nativeSrc": "2744:9:1",
                    "nodeType": "YulTypedName",
                    "src": "2744:9:1",
                    "type": ""
                },
                {
                    "name": "dataEnd",
                    "nativeSrc": "2755:7:1",
                    "nodeType": "YulTypedName",
                    "src": "2755:7:1",
                    "type": ""
                }
            ],
            "returnVariables": [
                {
                    "name": "value0",
                    "nativeSrc": "2767:6:1",
                    "nodeType": "YulTypedName",
```

```json
          "src": "2767:6:1",

          "type": ""

        }

      ],

      "src": "2708:329:1"

    },

    {

      "body": {

        "nativeSrc": "3169:206:1",

        "nodeType": "YulBlock",

        "src": "3169:206:1",

        "statements": [

          {

            "nativeSrc": "3179:26:1",

            "nodeType": "YulAssignment",

            "src": "3179:26:1",

            "value": {

              "arguments": [

                {

                  "name": "headStart",

                  "nativeSrc": "3191:9:1",

                  "nodeType": "YulIdentifier",

                  "src": "3191:9:1"

                },

                {

                  "kind": "number",
```

                        "nativeSrc": "3202:2:1",

                        "nodeType": "YulLiteral",

                        "src": "3202:2:1",

                        "type": "",

                        "value": "64"

                    }

                ],

                "functionName": {

                    "name": "add",

                    "nativeSrc": "3187:3:1",

                    "nodeType": "YulIdentifier",

                    "src": "3187:3:1"

                },

                "nativeSrc": "3187:18:1",

                "nodeType": "YulFunctionCall",

                "src": "3187:18:1"

            },

            "variableNames": [

                {

                    "name": "tail",

                    "nativeSrc": "3179:4:1",

                    "nodeType": "YulIdentifier",

                    "src": "3179:4:1"

                }

            ]

        },

```json
{
    "expression": {
        "arguments": [
            {
                "name": "value0",
                "nativeSrc": "3259:6:1",
                "nodeType": "YulIdentifier",
                "src": "3259:6:1"
            },
            {
                "arguments": [
                    {
                        "name": "headStart",
                        "nativeSrc": "3272:9:1",
                        "nodeType": "YulIdentifier",
                        "src": "3272:9:1"
                    },
                    {
                        "kind": "number",
                        "nativeSrc": "3283:1:1",
                        "nodeType": "YulLiteral",
                        "src": "3283:1:1",
                        "type": "",
                        "value": "0"
                    }
                ],
```

                              "functionName": {

                                    "name": "add",

                                    "nativeSrc": "3268:3:1",

                                    "nodeType": "YulIdentifier",

                                    "src": "3268:3:1"

                              },

                              "nativeSrc": "3268:17:1",

                              "nodeType": "YulFunctionCall",

                              "src": "3268:17:1"

                        }

                  ],

                  "functionName": {

                                                            "name":

"abi_encode_t_uint256_to_t_uint256_fromStack",

                        "nativeSrc": "3215:43:1",

                        "nodeType": "YulIdentifier",

                        "src": "3215:43:1"

                  },

                  "nativeSrc": "3215:71:1",

                  "nodeType": "YulFunctionCall",

                  "src": "3215:71:1"

            },

            "nativeSrc": "3215:71:1",

            "nodeType": "YulExpressionStatement",

            "src": "3215:71:1"

      },

```json
{
    "expression": {
        "arguments": [
            {
                "name": "value1",
                "nativeSrc": "3340:6:1",
                "nodeType": "YulIdentifier",
                "src": "3340:6:1"
            },
            {
                "arguments": [
                    {
                        "name": "headStart",
                        "nativeSrc": "3353:9:1",
                        "nodeType": "YulIdentifier",
                        "src": "3353:9:1"
                    },
                    {
                        "kind": "number",
                        "nativeSrc": "3364:2:1",
                        "nodeType": "YulLiteral",
                        "src": "3364:2:1",
                        "type": "",
                        "value": "32"
                    }
                ],
```

```json
                            "functionName": {
                                "name": "add",
                                "nativeSrc": "3349:3:1",
                                "nodeType": "YulIdentifier",
                                "src": "3349:3:1"
                            },
                            "nativeSrc": "3349:18:1",
                            "nodeType": "YulFunctionCall",
                            "src": "3349:18:1"
                        }
                    ],
                    "functionName": {
                        "name": "abi_encode_t_uint256_to_t_uint256_fromStack",
                        "nativeSrc": "3296:43:1",
                        "nodeType": "YulIdentifier",
                        "src": "3296:43:1"
                    },
                    "nativeSrc": "3296:72:1",
                    "nodeType": "YulFunctionCall",
                    "src": "3296:72:1"
                },
                "nativeSrc": "3296:72:1",
                "nodeType": "YulExpressionStatement",
                "src": "3296:72:1"
            }
```

                                    ]
                                },
                                                                        "name":
"abi_encode_tuple_t_uint256_t_uint256__to_t_uint256_t_uint256__fromStack_reversed",
                                "nativeSrc": "3043:332:1",
                                "nodeType": "YulFunctionDefinition",
                                "parameters": [
                                    {
                                        "name": "headStart",
                                        "nativeSrc": "3133:9:1",
                                        "nodeType": "YulTypedName",
                                        "src": "3133:9:1",
                                        "type": ""
                                    },
                                    {
                                        "name": "value1",
                                        "nativeSrc": "3145:6:1",
                                        "nodeType": "YulTypedName",
                                        "src": "3145:6:1",
                                        "type": ""
                                    },
                                    {
                                        "name": "value0",
                                        "nativeSrc": "3153:6:1",
                                        "nodeType": "YulTypedName",
                                        "src": "3153:6:1",

```json
                    "type": ""
                }
            ],
            "returnVariables": [
                {
                    "name": "tail",
                    "nativeSrc": "3164:4:1",
                    "nodeType": "YulTypedName",
                    "src": "3164:4:1",
                    "type": ""
                }
            ],
            "src": "3043:332:1"
        },
        {
            "body": {
                "nativeSrc": "3479:124:1",
                "nodeType": "YulBlock",
                "src": "3479:124:1",
                "statements": [
                    {
                        "nativeSrc": "3489:26:1",
                        "nodeType": "YulAssignment",
                        "src": "3489:26:1",
                        "value": {
                            "arguments": [
```

```json
          {
            "name": "headStart",
            "nativeSrc": "3501:9:1",
            "nodeType": "YulIdentifier",
            "src": "3501:9:1"
          },
          {
            "kind": "number",
            "nativeSrc": "3512:2:1",
            "nodeType": "YulLiteral",
            "src": "3512:2:1",
            "type": "",
            "value": "32"
          }
        ],
        "functionName": {
          "name": "add",
          "nativeSrc": "3497:3:1",
          "nodeType": "YulIdentifier",
          "src": "3497:3:1"
        },
        "nativeSrc": "3497:18:1",
        "nodeType": "YulFunctionCall",
        "src": "3497:18:1"
      },
      "variableNames": [
```

```json
        {
          "name": "tail",
          "nativeSrc": "3489:4:1",
          "nodeType": "YulIdentifier",
          "src": "3489:4:1"
        }
      ]
    },
    {
      "expression": {
        "arguments": [
          {
            "name": "value0",
            "nativeSrc": "3569:6:1",
            "nodeType": "YulIdentifier",
            "src": "3569:6:1"
          },
          {
            "arguments": [
              {
                "name": "headStart",
                "nativeSrc": "3582:9:1",
                "nodeType": "YulIdentifier",
                "src": "3582:9:1"
              },
              {
```

```json
                                    "kind": "number",

                                    "nativeSrc": "3593:1:1",

                                    "nodeType": "YulLiteral",

                                    "src": "3593:1:1",

                                    "type": "",

                                    "value": "0"

                                }

                            ],

                            "functionName": {

                                "name": "add",

                                "nativeSrc": "3578:3:1",

                                "nodeType": "YulIdentifier",

                                "src": "3578:3:1"

                            },

                            "nativeSrc": "3578:17:1",

                            "nodeType": "YulFunctionCall",

                            "src": "3578:17:1"

                        }

                    ],

                    "functionName": {

                        "name": "abi_encode_t_uint256_to_t_uint256_fromStack",

                        "nativeSrc": "3525:43:1",

                        "nodeType": "YulIdentifier",

                        "src": "3525:43:1"

                    },
```

                                    "nativeSrc": "3525:71:1",

                                    "nodeType": "YulFunctionCall",

                                    "src": "3525:71:1"

                                },

                                "nativeSrc": "3525:71:1",

                                "nodeType": "YulExpressionStatement",

                                "src": "3525:71:1"

                            }

                        ]

                    },

                                                                    "name":

"abi_encode_tuple_t_uint256__to_t_uint256__fromStack_reversed",

                    "nativeSrc": "3381:222:1",

                    "nodeType": "YulFunctionDefinition",

                    "parameters": [

                        {

                            "name": "headStart",

                            "nativeSrc": "3451:9:1",

                            "nodeType": "YulTypedName",

                            "src": "3451:9:1",

                            "type": ""

                        },

                        {

                            "name": "value0",

                            "nativeSrc": "3463:6:1",

                            "nodeType": "YulTypedName",

```json
                "src": "3463:6:1",

                "type": ""

            }

        ],

        "returnVariables": [

            {

                "name": "tail",

                "nativeSrc": "3474:4:1",

                "nodeType": "YulTypedName",

                "src": "3474:4:1",

                "type": ""

            }

        ],

        "src": "3381:222:1"

    },

    {

        "body": {

            "nativeSrc": "3664:53:1",

            "nodeType": "YulBlock",

            "src": "3664:53:1",

            "statements": [

                {

                    "expression": {

                        "arguments": [

                            {

                                "name": "pos",
```

          "nativeSrc": "3681:3:1",

          "nodeType": "YulIdentifier",

          "src": "3681:3:1"

        },

        {

          "arguments": [

            {

              "name": "value",

              "nativeSrc": "3704:5:1",

              "nodeType": "YulIdentifier",

              "src": "3704:5:1"

            }

          ],

          "functionName": {

            "name": "cleanup_t_uint256",

            "nativeSrc": "3686:17:1",

            "nodeType": "YulIdentifier",

            "src": "3686:17:1"

          },

          "nativeSrc": "3686:24:1",

          "nodeType": "YulFunctionCall",

          "src": "3686:24:1"

        }

      ],

      "functionName": {

        "name": "mstore",

```json
                      "nativeSrc": "3674:6:1",

                      "nodeType": "YulIdentifier",

                      "src": "3674:6:1"

                  },

                  "nativeSrc": "3674:37:1",

                  "nodeType": "YulFunctionCall",

                  "src": "3674:37:1"

              },

              "nativeSrc": "3674:37:1",

              "nodeType": "YulExpressionStatement",

              "src": "3674:37:1"

          }

      ]

  },

  "name": "abi_encode_t_uint256_to_t_uint256",

  "nativeSrc": "3609:108:1",

  "nodeType": "YulFunctionDefinition",

  "parameters": [

      {

          "name": "value",

          "nativeSrc": "3652:5:1",

          "nodeType": "YulTypedName",

          "src": "3652:5:1",

          "type": ""

      },

      {
```

```json
          "name": "pos",

          "nativeSrc": "3659:3:1",

          "nodeType": "YulTypedName",

          "src": "3659:3:1",

          "type": ""

        }

      ],

      "src": "3609:108:1"

    },

    {

      "body": {

        "nativeSrc": "3915:411:1",

        "nodeType": "YulBlock",

        "src": "3915:411:1",

        "statements": [

          {

            "nativeSrc": "3925:26:1",

            "nodeType": "YulVariableDeclaration",

            "src": "3925:26:1",

            "value": {

              "arguments": [

                {

                  "name": "pos",

                  "nativeSrc": "3941:3:1",

                  "nodeType": "YulIdentifier",

                  "src": "3941:3:1"
```

```json
        },
        {
            "kind": "number",
            "nativeSrc": "3946:4:1",
            "nodeType": "YulLiteral",
            "src": "3946:4:1",
            "type": "",
            "value": "0x40"
        }
    ],
    "functionName": {
        "name": "add",
        "nativeSrc": "3937:3:1",
        "nodeType": "YulIdentifier",
        "src": "3937:3:1"
    },
    "nativeSrc": "3937:14:1",
    "nodeType": "YulFunctionCall",
    "src": "3937:14:1"
},
"variables": [
    {
        "name": "tail",
        "nativeSrc": "3929:4:1",
        "nodeType": "YulTypedName",
        "src": "3929:4:1",
```

```json
                              "type": ""
                          }
                      ]
                  },
                  {
                      "nativeSrc": "3961:174:1",
                      "nodeType": "YulBlock",
                      "src": "3961:174:1",
                      "statements": [
                          {
                              "nativeSrc": "4006:43:1",
                              "nodeType": "YulVariableDeclaration",
                              "src": "4006:43:1",
                              "value": {
                                  "arguments": [
                                      {
                                          "arguments": [
                                              {
                                                  "name": "value",
                                                  "nativeSrc": "4036:5:1",
                                                  "nodeType": "YulIdentifier",
                                                  "src": "4036:5:1"
                                              },
                                              {
                                                  "kind": "number",
                                                  "nativeSrc": "4043:4:1",
```

                    "nodeType": "YulLiteral",

                    "src": "4043:4:1",

                    "type": "",

                    "value": "0x00"

                }

            ],

            "functionName": {

                "name": "add",

                "nativeSrc": "4032:3:1",

                "nodeType": "YulIdentifier",

                "src": "4032:3:1"

            },

            "nativeSrc": "4032:16:1",

            "nodeType": "YulFunctionCall",

            "src": "4032:16:1"

        }

    ],

    "functionName": {

        "name": "mload",

        "nativeSrc": "4026:5:1",

        "nodeType": "YulIdentifier",

        "src": "4026:5:1"

    },

    "nativeSrc": "4026:23:1",

    "nodeType": "YulFunctionCall",

    "src": "4026:23:1"

```
            },
            "variables": [
                {
                    "name": "memberValue0",
                    "nativeSrc": "4010:12:1",
                    "nodeType": "YulTypedName",
                    "src": "4010:12:1",
                    "type": ""
                }
            ]
        },
        {
            "expression": {
                "arguments": [
                    {
                        "name": "memberValue0",
                        "nativeSrc": "4096:12:1",
                        "nodeType": "YulIdentifier",
                        "src": "4096:12:1"
                    },
                    {
                        "arguments": [
                            {
                                "name": "pos",
                                "nativeSrc": "4114:3:1",
                                "nodeType": "YulIdentifier",
```

              "src": "4114:3:1"
            },
            {
              "kind": "number",
              "nativeSrc": "4119:4:1",
              "nodeType": "YulLiteral",
              "src": "4119:4:1",
              "type": "",
              "value": "0x00"
            }
          ],
          "functionName": {
            "name": "add",
            "nativeSrc": "4110:3:1",
            "nodeType": "YulIdentifier",
            "src": "4110:3:1"
          },
          "nativeSrc": "4110:14:1",
          "nodeType": "YulFunctionCall",
          "src": "4110:14:1"
        }
      ],
      "functionName": {
        "name": "abi_encode_t_uint256_to_t_uint256",
        "nativeSrc": "4062:33:1",
        "nodeType": "YulIdentifier",

```json
              "src": "4062:33:1"
            },
            "nativeSrc": "4062:63:1",
            "nodeType": "YulFunctionCall",
            "src": "4062:63:1"
          },
          "nativeSrc": "4062:63:1",
          "nodeType": "YulExpressionStatement",
          "src": "4062:63:1"
        }
      ]
    },
    {
      "nativeSrc": "4145:174:1",
      "nodeType": "YulBlock",
      "src": "4145:174:1",
      "statements": [
        {
          "nativeSrc": "4190:43:1",
          "nodeType": "YulVariableDeclaration",
          "src": "4190:43:1",
          "value": {
            "arguments": [
              {
                "arguments": [
                  {
```

```json
                                    "name": "value",

                                    "nativeSrc": "4220:5:1",

                                    "nodeType": "YulIdentifier",

                                    "src": "4220:5:1"

                                },
                                {

                                    "kind": "number",

                                    "nativeSrc": "4227:4:1",

                                    "nodeType": "YulLiteral",

                                    "src": "4227:4:1",

                                    "type": "",

                                    "value": "0x20"

                                }
                            ],
                            "functionName": {

                                "name": "add",

                                "nativeSrc": "4216:3:1",

                                "nodeType": "YulIdentifier",

                                "src": "4216:3:1"

                            },
                            "nativeSrc": "4216:16:1",

                            "nodeType": "YulFunctionCall",

                            "src": "4216:16:1"

                        }
                    ],
                    "functionName": {
```

            "name": "mload",

            "nativeSrc": "4210:5:1",

            "nodeType": "YulIdentifier",

            "src": "4210:5:1"

        },

        "nativeSrc": "4210:23:1",

        "nodeType": "YulFunctionCall",

        "src": "4210:23:1"

    },

    "variables": [

        {

            "name": "memberValue0",

            "nativeSrc": "4194:12:1",

            "nodeType": "YulTypedName",

            "src": "4194:12:1",

            "type": ""

        }

    ]

},

{

    "expression": {

        "arguments": [

            {

                "name": "memberValue0",

                "nativeSrc": "4280:12:1",

                "nodeType": "YulIdentifier",

                    "src": "4280:12:1"
                },
                {
                    "arguments": [
                        {
                            "name": "pos",
                            "nativeSrc": "4298:3:1",
                            "nodeType": "YulIdentifier",
                            "src": "4298:3:1"
                        },
                        {
                            "kind": "number",
                            "nativeSrc": "4303:4:1",
                            "nodeType": "YulLiteral",
                            "src": "4303:4:1",
                            "type": "",
                            "value": "0x20"
                        }
                    ],
                    "functionName": {
                        "name": "add",
                        "nativeSrc": "4294:3:1",
                        "nodeType": "YulIdentifier",
                        "src": "4294:3:1"
                    },
                    "nativeSrc": "4294:14:1",

                                        "nodeType": "YulFunctionCall",

                                        "src": "4294:14:1"

                                    }

                                ],

                                "functionName": {

                                    "name": "abi_encode_t_uint256_to_t_uint256",

                                    "nativeSrc": "4246:33:1",

                                    "nodeType": "YulIdentifier",

                                    "src": "4246:33:1"

                                },

                                "nativeSrc": "4246:63:1",

                                "nodeType": "YulFunctionCall",

                                "src": "4246:63:1"

                            },

                            "nativeSrc": "4246:63:1",

                            "nodeType": "YulExpressionStatement",

                            "src": "4246:63:1"

                        }

                    ]

                }

            ]

        },

                                                    "name":

"abi_encode_t_struct$_Ledger_$7_memory_ptr_to_t_struct$_Ledger_$7_memory_ptr_fromStack",

                    "nativeSrc": "3807:519:1",

                    "nodeType": "YulFunctionDefinition",

```json
        "parameters": [
          {
            "name": "value",
            "nativeSrc": "3902:5:1",
            "nodeType": "YulTypedName",
            "src": "3902:5:1",
            "type": ""
          },
          {
            "name": "pos",
            "nativeSrc": "3909:3:1",
            "nodeType": "YulTypedName",
            "src": "3909:3:1",
            "type": ""
          }
        ],
        "src": "3807:519:1"
      },
      {
        "body": {
          "nativeSrc": "4472:166:1",
          "nodeType": "YulBlock",
          "src": "4472:166:1",
          "statements": [
            {
              "nativeSrc": "4482:26:1",
```

```
"nodeType": "YulAssignment",

"src": "4482:26:1",

"value": {

    "arguments": [

        {

            "name": "headStart",

            "nativeSrc": "4494:9:1",

            "nodeType": "YulIdentifier",

            "src": "4494:9:1"

        },

        {

            "kind": "number",

            "nativeSrc": "4505:2:1",

            "nodeType": "YulLiteral",

            "src": "4505:2:1",

            "type": "",

            "value": "64"

        }

    ],

    "functionName": {

        "name": "add",

        "nativeSrc": "4490:3:1",

        "nodeType": "YulIdentifier",

        "src": "4490:3:1"

    },

    "nativeSrc": "4490:18:1",
```

```json
          "nodeType": "YulFunctionCall",
          "src": "4490:18:1"
        },
        "variableNames": [
          {
            "name": "tail",
            "nativeSrc": "4482:4:1",
            "nodeType": "YulIdentifier",
            "src": "4482:4:1"
          }
        ]
      },
      {
        "expression": {
          "arguments": [
            {
              "name": "value0",
              "nativeSrc": "4604:6:1",
              "nodeType": "YulIdentifier",
              "src": "4604:6:1"
            },
            {
              "arguments": [
                {
                  "name": "headStart",
                  "nativeSrc": "4617:9:1",
```

                "nodeType": "YulIdentifier",

                "src": "4617:9:1"

            },

            {

                "kind": "number",

                "nativeSrc": "4628:1:1",

                "nodeType": "YulLiteral",

                "src": "4628:1:1",

                "type": "",

                "value": "0"

            }

        ],

        "functionName": {

            "name": "add",

            "nativeSrc": "4613:3:1",

            "nodeType": "YulIdentifier",

            "src": "4613:3:1"

        },

        "nativeSrc": "4613:17:1",

        "nodeType": "YulFunctionCall",

        "src": "4613:17:1"

    }

],

"functionName": {

                                              "name":

"abi_encode_t_struct$_Ledger_$7_memory_ptr_to_t_struct$_Ledger_$7_memory_ptr_fromStack",

                                    "nativeSrc": "4518:85:1",

                                    "nodeType": "YulIdentifier",

                                    "src": "4518:85:1"

                                },

                                "nativeSrc": "4518:113:1",

                                "nodeType": "YulFunctionCall",

                                "src": "4518:113:1"

                            },

                            "nativeSrc": "4518:113:1",

                            "nodeType": "YulExpressionStatement",

                            "src": "4518:113:1"

                        }

                    ]

                },

                                                        "name":

"abi_encode_tuple_t_struct$_Ledger_$7_memory_ptr__to_t_struct$_Ledger_$7_memory_ptr__fro

mStack_reversed",

                    "nativeSrc": "4332:306:1",

                    "nodeType": "YulFunctionDefinition",

                    "parameters": [

                        {

                            "name": "headStart",

                            "nativeSrc": "4444:9:1",

                            "nodeType": "YulTypedName",

                            "src": "4444:9:1",

                            "type": ""

```json
        },
        {
          "name": "value0",
          "nativeSrc": "4456:6:1",
          "nodeType": "YulTypedName",
          "src": "4456:6:1",
          "type": ""
        }
      ],
      "returnVariables": [
        {
          "name": "tail",
          "nativeSrc": "4467:4:1",
          "nodeType": "YulTypedName",
          "src": "4467:4:1",
          "type": ""
        }
      ],
      "src": "4332:306:1"
    },
    {
      "body": {
        "nativeSrc": "4740:73:1",
        "nodeType": "YulBlock",
        "src": "4740:73:1",
        "statements": [
```

```json
{
  "expression": {
    "arguments": [
      {
        "name": "pos",
        "nativeSrc": "4757:3:1",
        "nodeType": "YulIdentifier",
        "src": "4757:3:1"
      },
      {
        "name": "length",
        "nativeSrc": "4762:6:1",
        "nodeType": "YulIdentifier",
        "src": "4762:6:1"
      }
    ],
    "functionName": {
      "name": "mstore",
      "nativeSrc": "4750:6:1",
      "nodeType": "YulIdentifier",
      "src": "4750:6:1"
    },
    "nativeSrc": "4750:19:1",
    "nodeType": "YulFunctionCall",
    "src": "4750:19:1"
  },
```

                    "nativeSrc": "4750:19:1",

                    "nodeType": "YulExpressionStatement",

                    "src": "4750:19:1"

                },

                {

                    "nativeSrc": "4778:29:1",

                    "nodeType": "YulAssignment",

                    "src": "4778:29:1",

                    "value": {

                        "arguments": [

                            {

                                "name": "pos",

                                "nativeSrc": "4797:3:1",

                                "nodeType": "YulIdentifier",

                                "src": "4797:3:1"

                            },

                            {

                                "kind": "number",

                                "nativeSrc": "4802:4:1",

                                "nodeType": "YulLiteral",

                                "src": "4802:4:1",

                                "type": "",

                                "value": "0x20"

                            }

                        ],

                        "functionName": {

                              "name": "add",

                              "nativeSrc": "4793:3:1",

                              "nodeType": "YulIdentifier",

                              "src": "4793:3:1"

                          },

                          "nativeSrc": "4793:14:1",

                          "nodeType": "YulFunctionCall",

                          "src": "4793:14:1"

                      },

                      "variableNames": [

                          {

                              "name": "updated_pos",

                              "nativeSrc": "4778:11:1",

                              "nodeType": "YulIdentifier",

                              "src": "4778:11:1"

                          }

                      ]

                  }

              ]

          },

                                                          "name":

"array_storeLengthForEncoding_t_string_memory_ptr_fromStack",

              "nativeSrc": "4644:169:1",

              "nodeType": "YulFunctionDefinition",

              "parameters": [

                  {

```json
          "name": "pos",

          "nativeSrc": "4712:3:1",

          "nodeType": "YulTypedName",

          "src": "4712:3:1",

          "type": ""

        },
        {

          "name": "length",

          "nativeSrc": "4717:6:1",

          "nodeType": "YulTypedName",

          "src": "4717:6:1",

          "type": ""

        }

      ],

      "returnVariables": [
        {

          "name": "updated_pos",

          "nativeSrc": "4728:11:1",

          "nodeType": "YulTypedName",

          "src": "4728:11:1",

          "type": ""

        }

      ],

      "src": "4644:169:1"

    },
    {
```

```json
"body": {
    "nativeSrc": "4925:73:1",
    "nodeType": "YulBlock",
    "src": "4925:73:1",
    "statements": [
        {
            "expression": {
                "arguments": [
                    {
                        "arguments": [
                            {
                                "name": "memPtr",
                                "nativeSrc": "4947:6:1",
                                "nodeType": "YulIdentifier",
                                "src": "4947:6:1"
                            },
                            {
                                "kind": "number",
                                "nativeSrc": "4955:1:1",
                                "nodeType": "YulLiteral",
                                "src": "4955:1:1",
                                "type": "",
                                "value": "0"
                            }
                        ],
                        "functionName": {
```

                    "name": "add",

                    "nativeSrc": "4943:3:1",

                    "nodeType": "YulIdentifier",

                    "src": "4943:3:1"

                  },

                  "nativeSrc": "4943:14:1",

                  "nodeType": "YulFunctionCall",

                  "src": "4943:14:1"

                },

                {

                          "hexValue":

"496e73756666696369656e74206d61696e6e65742062616c616e63652e",

                  "kind": "string",

                  "nativeSrc": "4959:31:1",

                  "nodeType": "YulLiteral",

                  "src": "4959:31:1",

                  "type": "",

                  "value": "Insufficient mainnet balance."

                }

              ],

              "functionName": {

                "name": "mstore",

                "nativeSrc": "4936:6:1",

                "nodeType": "YulIdentifier",

                "src": "4936:6:1"

              },

                    "nativeSrc": "4936:55:1",

                    "nodeType": "YulFunctionCall",

                    "src": "4936:55:1"

                },

                "nativeSrc": "4936:55:1",

                "nodeType": "YulExpressionStatement",

                "src": "4936:55:1"

            }

        ]

    },

                                        "name":

"store_literal_in_memory_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf

45",

            "nativeSrc": "4819:179:1",

            "nodeType": "YulFunctionDefinition",

            "parameters": [

                {

                    "name": "memPtr",

                    "nativeSrc": "4917:6:1",

                    "nodeType": "YulTypedName",

                    "src": "4917:6:1",

                    "type": ""

                }

            ],

            "src": "4819:179:1"

        },

```json
{
    "body": {
        "nativeSrc": "5150:220:1",
        "nodeType": "YulBlock",
        "src": "5150:220:1",
        "statements": [
            {
                "nativeSrc": "5160:74:1",
                "nodeType": "YulAssignment",
                "src": "5160:74:1",
                "value": {
                    "arguments": [
                        {
                            "name": "pos",
                            "nativeSrc": "5226:3:1",
                            "nodeType": "YulIdentifier",
                            "src": "5226:3:1"
                        },
                        {
                            "kind": "number",
                            "nativeSrc": "5231:2:1",
                            "nodeType": "YulLiteral",
                            "src": "5231:2:1",
                            "type": "",
                            "value": "29"
                        }
```

                    ],
                    "functionName": {
                        "name": "array_storeLengthForEncoding_t_string_memory_ptr_fromStack",
                        "nativeSrc": "5167:58:1",
                        "nodeType": "YulIdentifier",
                        "src": "5167:58:1"
                    },
                    "nativeSrc": "5167:67:1",
                    "nodeType": "YulFunctionCall",
                    "src": "5167:67:1"
                },
                "variableNames": [
                    {
                        "name": "pos",
                        "nativeSrc": "5160:3:1",
                        "nodeType": "YulIdentifier",
                        "src": "5160:3:1"
                    }
                ]
            },
            {
                "expression": {
                    "arguments": [
                        {
                            "name": "pos",

                "nativeSrc": "5332:3:1",

                "nodeType": "YulIdentifier",

                "src": "5332:3:1"

            }

        ],

        "functionName": {

                "name":

"store_literal_in_memory_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf

45",

                "nativeSrc": "5243:88:1",

                "nodeType": "YulIdentifier",

                "src": "5243:88:1"

            },

            "nativeSrc": "5243:93:1",

            "nodeType": "YulFunctionCall",

            "src": "5243:93:1"

        },

        "nativeSrc": "5243:93:1",

        "nodeType": "YulExpressionStatement",

        "src": "5243:93:1"

    },

    {

        "nativeSrc": "5345:19:1",

        "nodeType": "YulAssignment",

        "src": "5345:19:1",

        "value": {

```json
      "arguments": [
        {
          "name": "pos",
          "nativeSrc": "5356:3:1",
          "nodeType": "YulIdentifier",
          "src": "5356:3:1"
        },
        {
          "kind": "number",
          "nativeSrc": "5361:2:1",
          "nodeType": "YulLiteral",
          "src": "5361:2:1",
          "type": "",
          "value": "32"
        }
      ],
      "functionName": {
        "name": "add",
        "nativeSrc": "5352:3:1",
        "nodeType": "YulIdentifier",
        "src": "5352:3:1"
      },
      "nativeSrc": "5352:12:1",
      "nodeType": "YulFunctionCall",
      "src": "5352:12:1"
    },
```

                        "variableNames": [
                            {
                                "name": "end",
                                "nativeSrc": "5345:3:1",
                                "nodeType": "YulIdentifier",
                                "src": "5345:3:1"
                            }
                        ]
                    }
                ]
            },
                                                    "name":
"abi_encode_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008
cf45_to_t_string_memory_ptr_fromStack",
                "nativeSrc": "5004:366:1",
                "nodeType": "YulFunctionDefinition",
                "parameters": [
                    {
                        "name": "pos",
                        "nativeSrc": "5138:3:1",
                        "nodeType": "YulTypedName",
                        "src": "5138:3:1",
                        "type": ""
                    }
                ],
                "returnVariables": [

```json
          {
            "name": "end",

            "nativeSrc": "5146:3:1",

            "nodeType": "YulTypedName",

            "src": "5146:3:1",

            "type": ""
          }
        ],

        "src": "5004:366:1"
      },
      {

        "body": {

          "nativeSrc": "5547:248:1",

          "nodeType": "YulBlock",

          "src": "5547:248:1",

          "statements": [
            {

              "nativeSrc": "5557:26:1",

              "nodeType": "YulAssignment",

              "src": "5557:26:1",

              "value": {

                "arguments": [
                  {

                    "name": "headStart",

                    "nativeSrc": "5569:9:1",

                    "nodeType": "YulIdentifier",
```

                "src": "5569:9:1"

              },

              {

                "kind": "number",

                "nativeSrc": "5580:2:1",

                "nodeType": "YulLiteral",

                "src": "5580:2:1",

                "type": "",

                "value": "32"

              }

            ],

            "functionName": {

              "name": "add",

              "nativeSrc": "5565:3:1",

              "nodeType": "YulIdentifier",

              "src": "5565:3:1"

            },

            "nativeSrc": "5565:18:1",

            "nodeType": "YulFunctionCall",

            "src": "5565:18:1"

          },

          "variableNames": [

            {

              "name": "tail",

              "nativeSrc": "5557:4:1",

              "nodeType": "YulIdentifier",

```json
                                        "src": "5557:4:1"

                                    }

                                ]

                            },

                            {

                                "expression": {

                                    "arguments": [

                                        {

                                            "arguments": [

                                                {

                                                    "name": "headStart",

                                                    "nativeSrc": "5604:9:1",

                                                    "nodeType": "YulIdentifier",

                                                    "src": "5604:9:1"

                                                },

                                                {

                                                    "kind": "number",

                                                    "nativeSrc": "5615:1:1",

                                                    "nodeType": "YulLiteral",

                                                    "src": "5615:1:1",

                                                    "type": "",

                                                    "value": "0"

                                                }

                                            ],

                                            "functionName": {

                                                "name": "add",
```

```json
          "nativeSrc": "5600:3:1",

          "nodeType": "YulIdentifier",

          "src": "5600:3:1"

      },

      "nativeSrc": "5600:17:1",

      "nodeType": "YulFunctionCall",

      "src": "5600:17:1"

  },

  {

      "arguments": [

          {

              "name": "tail",

              "nativeSrc": "5623:4:1",

              "nodeType": "YulIdentifier",

              "src": "5623:4:1"

          },

          {

              "name": "headStart",

              "nativeSrc": "5629:9:1",

              "nodeType": "YulIdentifier",

              "src": "5629:9:1"

          }

      ],

      "functionName": {

          "name": "sub",

          "nativeSrc": "5619:3:1",
```

                    "nodeType": "YulIdentifier",

                    "src": "5619:3:1"

                },

                "nativeSrc": "5619:20:1",

                "nodeType": "YulFunctionCall",

                "src": "5619:20:1"

            }

        ],

        "functionName": {

            "name": "mstore",

            "nativeSrc": "5593:6:1",

            "nodeType": "YulIdentifier",

            "src": "5593:6:1"

        },

        "nativeSrc": "5593:47:1",

        "nodeType": "YulFunctionCall",

        "src": "5593:47:1"

    },

    "nativeSrc": "5593:47:1",

    "nodeType": "YulExpressionStatement",

    "src": "5593:47:1"

},

{

    "nativeSrc": "5649:139:1",

    "nodeType": "YulAssignment",

    "src": "5649:139:1",

```json
            "value": {
                "arguments": [
                    {
                        "name": "tail",
                        "nativeSrc": "5783:4:1",
                        "nodeType": "YulIdentifier",
                        "src": "5783:4:1"
                    }
                ],
                "functionName": {
                    "name": "abi_encode_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf45_to_t_string_memory_ptr_fromStack",
                    "nativeSrc": "5657:124:1",
                    "nodeType": "YulIdentifier",
                    "src": "5657:124:1"
                },
                "nativeSrc": "5657:131:1",
                "nodeType": "YulFunctionCall",
                "src": "5657:131:1"
            },
            "variableNames": [
                {
                    "name": "tail",
                    "nativeSrc": "5649:4:1",
                    "nodeType": "YulIdentifier",
```

                    "src": "5649:4:1"

                }

            ]

        }

    ]

},

                                "name":

"abi_encode_tuple_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc11892297711

67008cf45__to_t_string_memory_ptr__fromStack_reversed",

            "nativeSrc": "5376:419:1",

            "nodeType": "YulFunctionDefinition",

            "parameters": [

                {

                    "name": "headStart",

                    "nativeSrc": "5527:9:1",

                    "nodeType": "YulTypedName",

                    "src": "5527:9:1",

                    "type": ""

                }

            ],

            "returnVariables": [

                {

                    "name": "tail",

                    "nativeSrc": "5542:4:1",

                    "nodeType": "YulTypedName",

                    "src": "5542:4:1",

```json
              "type": ""
        }
      ],
      "src": "5376:419:1"
  },
  {
      "body": {
          "nativeSrc": "5829:152:1",
          "nodeType": "YulBlock",
          "src": "5829:152:1",
          "statements": [
            {
                "expression": {
                    "arguments": [
                      {
                          "kind": "number",
                          "nativeSrc": "5846:1:1",
                          "nodeType": "YulLiteral",
                          "src": "5846:1:1",
                          "type": "",
                          "value": "0"
                      },
                      {
                          "kind": "number",
                          "nativeSrc": "5849:77:1",
                          "nodeType": "YulLiteral",
```

                                        "src": "5849:77:1",

                                        "type": "",

                                                                            "value":

"35408467139433450592217433187231851964531694900788300625387963629091585785856"

                            }

                        ],

                    "functionName": {

                        "name": "mstore",

                        "nativeSrc": "5839:6:1",

                        "nodeType": "YulIdentifier",

                        "src": "5839:6:1"

                    },

                    "nativeSrc": "5839:88:1",

                    "nodeType": "YulFunctionCall",

                    "src": "5839:88:1"

                },

                "nativeSrc": "5839:88:1",

                "nodeType": "YulExpressionStatement",

                "src": "5839:88:1"

            },

            {

                "expression": {

                    "arguments": [

                        {

                            "kind": "number",

                            "nativeSrc": "5943:1:1",

```json
                    "nodeType": "YulLiteral",

                    "src": "5943:1:1",

                    "type": "",

                    "value": "4"

                },

                {

                    "kind": "number",

                    "nativeSrc": "5946:4:1",

                    "nodeType": "YulLiteral",

                    "src": "5946:4:1",

                    "type": "",

                    "value": "0x11"

                }

            ],

            "functionName": {

                "name": "mstore",

                "nativeSrc": "5936:6:1",

                "nodeType": "YulIdentifier",

                "src": "5936:6:1"

            },

            "nativeSrc": "5936:15:1",

            "nodeType": "YulFunctionCall",

            "src": "5936:15:1"

        },

        "nativeSrc": "5936:15:1",

        "nodeType": "YulExpressionStatement",
```

```json
            "src": "5936:15:1"
          },
          {
            "expression": {
              "arguments": [
                {
                  "kind": "number",
                  "nativeSrc": "5967:1:1",
                  "nodeType": "YulLiteral",
                  "src": "5967:1:1",
                  "type": "",
                  "value": "0"
                },
                {
                  "kind": "number",
                  "nativeSrc": "5970:4:1",
                  "nodeType": "YulLiteral",
                  "src": "5970:4:1",
                  "type": "",
                  "value": "0x24"
                }
              ],
              "functionName": {
                "name": "revert",
                "nativeSrc": "5960:6:1",
                "nodeType": "YulIdentifier",
```

```json
                    "src": "5960:6:1"
                  },
                  "nativeSrc": "5960:15:1",
                  "nodeType": "YulFunctionCall",
                  "src": "5960:15:1"
                },
                "nativeSrc": "5960:15:1",
                "nodeType": "YulExpressionStatement",
                "src": "5960:15:1"
              }
            ]
          },
          "name": "panic_error_0x11",
          "nativeSrc": "5801:180:1",
          "nodeType": "YulFunctionDefinition",
          "src": "5801:180:1"
        },
        {
          "body": {
            "nativeSrc": "6032:149:1",
            "nodeType": "YulBlock",
            "src": "6032:149:1",
            "statements": [
              {
                "nativeSrc": "6042:25:1",
                "nodeType": "YulAssignment",
```

```json
          "src": "6042:25:1",
          "value": {
            "arguments": [
              {
                "name": "x",
                "nativeSrc": "6065:1:1",
                "nodeType": "YulIdentifier",
                "src": "6065:1:1"
              }
            ],
            "functionName": {
              "name": "cleanup_t_uint256",
              "nativeSrc": "6047:17:1",
              "nodeType": "YulIdentifier",
              "src": "6047:17:1"
            },
            "nativeSrc": "6047:20:1",
            "nodeType": "YulFunctionCall",
            "src": "6047:20:1"
          },
          "variableNames": [
            {
              "name": "x",
              "nativeSrc": "6042:1:1",
              "nodeType": "YulIdentifier",
              "src": "6042:1:1"
```

```json
          }
        ]
      },
      {
        "nativeSrc": "6076:25:1",
        "nodeType": "YulAssignment",
        "src": "6076:25:1",
        "value": {
          "arguments": [
            {
              "name": "y",
              "nativeSrc": "6099:1:1",
              "nodeType": "YulIdentifier",
              "src": "6099:1:1"
            }
          ],
          "functionName": {
            "name": "cleanup_t_uint256",
            "nativeSrc": "6081:17:1",
            "nodeType": "YulIdentifier",
            "src": "6081:17:1"
          },
          "nativeSrc": "6081:20:1",
          "nodeType": "YulFunctionCall",
          "src": "6081:20:1"
        },
```

```json
      "variableNames": [
        {
          "name": "y",
          "nativeSrc": "6076:1:1",
          "nodeType": "YulIdentifier",
          "src": "6076:1:1"
        }
      ]
    },
    {
      "nativeSrc": "6110:17:1",
      "nodeType": "YulAssignment",
      "src": "6110:17:1",
      "value": {
        "arguments": [
          {
            "name": "x",
            "nativeSrc": "6122:1:1",
            "nodeType": "YulIdentifier",
            "src": "6122:1:1"
          },
          {
            "name": "y",
            "nativeSrc": "6125:1:1",
            "nodeType": "YulIdentifier",
            "src": "6125:1:1"
```

```json
          }
        ],
        "functionName": {
          "name": "sub",
          "nativeSrc": "6118:3:1",
          "nodeType": "YulIdentifier",
          "src": "6118:3:1"
        },
        "nativeSrc": "6118:9:1",
        "nodeType": "YulFunctionCall",
        "src": "6118:9:1"
      },
      "variableNames": [
        {
          "name": "diff",
          "nativeSrc": "6110:4:1",
          "nodeType": "YulIdentifier",
          "src": "6110:4:1"
        }
      ]
    },
    {
      "body": {
        "nativeSrc": "6152:22:1",
        "nodeType": "YulBlock",
        "src": "6152:22:1",
```

```
          "statements": [
            {
              "expression": {
                "arguments": [],
                "functionName": {
                  "name": "panic_error_0x11",
                  "nativeSrc": "6154:16:1",
                  "nodeType": "YulIdentifier",
                  "src": "6154:16:1"
                },
                "nativeSrc": "6154:18:1",
                "nodeType": "YulFunctionCall",
                "src": "6154:18:1"
              },
              "nativeSrc": "6154:18:1",
              "nodeType": "YulExpressionStatement",
              "src": "6154:18:1"
            }
          ]
        },
        "condition": {
          "arguments": [
            {
              "name": "diff",
              "nativeSrc": "6143:4:1",
              "nodeType": "YulIdentifier",
```

```json
                        "src": "6143:4:1"
                      },
                      {
                        "name": "x",
                        "nativeSrc": "6149:1:1",
                        "nodeType": "YulIdentifier",
                        "src": "6149:1:1"
                      }
                    ],
                    "functionName": {
                      "name": "gt",
                      "nativeSrc": "6140:2:1",
                      "nodeType": "YulIdentifier",
                      "src": "6140:2:1"
                    },
                    "nativeSrc": "6140:11:1",
                    "nodeType": "YulFunctionCall",
                    "src": "6140:11:1"
                  },
                  "nativeSrc": "6137:37:1",
                  "nodeType": "YulIf",
                  "src": "6137:37:1"
                }
              ]
            },
            "name": "checked_sub_t_uint256",
```

"nativeSrc": "5987:194:1",

"nodeType": "YulFunctionDefinition",

"parameters": [

　　{

　　　"name": "x",

　　　"nativeSrc": "6018:1:1",

　　　"nodeType": "YulTypedName",

　　　"src": "6018:1:1",

　　　"type": ""

　　},

　　{

　　　"name": "y",

　　　"nativeSrc": "6021:1:1",

　　　"nodeType": "YulTypedName",

　　　"src": "6021:1:1",

　　　"type": ""

　　}

],

"returnVariables": [

　　{

　　　"name": "diff",

　　　"nativeSrc": "6027:4:1",

　　　"nodeType": "YulTypedName",

　　　"src": "6027:4:1",

　　　"type": ""

　　}

```json
      ],
      "src": "5987:194:1"
    },
    {
      "body": {
        "nativeSrc": "6231:147:1",
        "nodeType": "YulBlock",
        "src": "6231:147:1",
        "statements": [
          {
            "nativeSrc": "6241:25:1",
            "nodeType": "YulAssignment",
            "src": "6241:25:1",
            "value": {
              "arguments": [
                {
                  "name": "x",
                  "nativeSrc": "6264:1:1",
                  "nodeType": "YulIdentifier",
                  "src": "6264:1:1"
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                "nativeSrc": "6246:17:1",
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            "src": "6246:17:1"
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          "nodeType": "YulFunctionCall",
          "src": "6246:20:1"
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        "variableNames": [
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            "name": "x",
            "nativeSrc": "6241:1:1",
            "nodeType": "YulIdentifier",
            "src": "6241:1:1"
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        "nodeType": "YulAssignment",
        "src": "6275:25:1",
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            {
              "name": "y",
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              "nodeType": "YulIdentifier",
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          }
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          "src": "6280:17:1"
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        "nativeSrc": "6280:20:1",
        "nodeType": "YulFunctionCall",
        "src": "6280:20:1"
      },
      "variableNames": [
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          "nativeSrc": "6275:1:1",
          "nodeType": "YulIdentifier",
          "src": "6275:1:1"
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    },
    {
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      "nodeType": "YulAssignment",
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      "value": {

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      "arguments": [
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          "nativeSrc": "6320:1:1",
          "nodeType": "YulIdentifier",
          "src": "6320:1:1"
        },
        {
          "name": "y",
          "nativeSrc": "6323:1:1",
          "nodeType": "YulIdentifier",
          "src": "6323:1:1"
        }
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        "nativeSrc": "6316:3:1",
        "nodeType": "YulIdentifier",
        "src": "6316:3:1"
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      "nativeSrc": "6316:9:1",
      "nodeType": "YulFunctionCall",
      "src": "6316:9:1"
    },
    "variableNames": [
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                    "nativeSrc": "6309:3:1",

                    "nodeType": "YulIdentifier",

                    "src": "6309:3:1"

                }

            ]

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                "src": "6349:22:1",

                "statements": [

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                            "arguments": [],

                            "functionName": {

                                "name": "panic_error_0x11",

                                "nativeSrc": "6351:16:1",

                                "nodeType": "YulIdentifier",

                                "src": "6351:16:1"

                            },

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                            "nodeType": "YulFunctionCall",

                            "src": "6351:18:1"

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          }

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  },

  "condition": {

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              "nodeType": "YulIdentifier",

              "src": "6341:1:1"

          },

          {

              "name": "sum",

              "nativeSrc": "6344:3:1",

              "nodeType": "YulIdentifier",

              "src": "6344:3:1"

          }

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          "nativeSrc": "6338:2:1",

          "nodeType": "YulIdentifier",

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                    },
                    "nativeSrc": "6335:36:1",
                    "nodeType": "YulIf",
                    "src": "6335:36:1"
                }
            ]
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        "nativeSrc": "6187:191:1",
        "nodeType": "YulFunctionDefinition",
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                "nativeSrc": "6218:1:1",
                "nodeType": "YulTypedName",
                "src": "6218:1:1",
                "type": ""
            },
            {
                "name": "y",
                "nativeSrc": "6221:1:1",
                "nodeType": "YulTypedName",
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                        "src": "6221:1:1",

                        "type": ""

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                        "src": "6227:3:1",

                        "type": ""

                    }

                ],

                "src": "6187:191:1"

            }

        ]

    },

            "contents": "{\n\n   function allocate_unbounded() -> memPtr {\n   memPtr   :=   mload(64)\n   }\n\n   function revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b() {\n   revert(0,   0)\n   }\n\n   function revert_error_c1322bf8034eace5e0b5c7295db60986aa89aae5e0ea0873e4689e076861a5db() {\n   revert(0, 0)\n   }\n\n   function cleanup_t_uint160(value) -> cleaned {\n   cleaned := and(value, 0xffffffffffffffffffffffffffffffffffffffff)\n   }\n\n   function cleanup_t_address(value) -> cleaned {\n   cleaned := cleanup_t_uint160(value)\n   }\n\n   function validator_revert_t_address(value) {\n   if iszero(eq(value,   cleanup_t_address(value))) {   revert(0,   0)   }\n   }\n\n   function

abi_decode_t_address(offset, end) -> value {\n   value := calldataload(offset)\n

validator_revert_t_address(value)\n   }\n\n   function cleanup_t_uint256(value) -> cleaned {\n

cleaned := value\n   }\n\n   function validator_revert_t_uint256(value) {\n   if iszero(eq(value,

cleanup_t_uint256(value))) { revert(0, 0) }\n   }\n\n   function abi_decode_t_uint256(offset, end) ->

value {\n   value := calldataload(offset)\n   validator_revert_t_uint256(value)\n   }\n\n

function abi_decode_tuple_t_addresst_uint256(headStart, dataEnd) -> value0, value1 {\n   if

slt(sub(dataEnd,   headStart),   64)   {

revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b() }\n\n

    {\n\n   let offset := 0\n\n   value0 := abi_decode_t_address(add(headStart, offset),

dataEnd)\n   }\n\n   {\n\n   let offset := 32\n\n   value1 :=

abi_decode_t_uint256(add(headStart, offset), dataEnd)\n   }\n\n   }\n\n   function

abi_decode_tuple_t_uint256(headStart, dataEnd) -> value0 {\n   if slt(sub(dataEnd, headStart),

32) { revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b()

}\n\n   {\n\n   let offset := 0\n\n   value0 := abi_decode_t_uint256(add(headStart,

offset),   dataEnd)\n   }\n\n   }\n\n   function

abi_encode_t_address_to_t_address_fromStack(value,   pos)   {\n   mstore(pos,

cleanup_t_address(value))\n   }\n\n   function

abi_encode_t_uint256_to_t_uint256_fromStack(value,   pos)   {\n   mstore(pos,

cleanup_t_uint256(value))\n   }\n\n   function

abi_encode_tuple_t_address_t_uint256_t_uint256__to_t_address_t_uint256_t_uint256__fromStack

_reversed(headStart , value2, value1, value0) -> tail {\n   tail := add(headStart, 96)\n\n

abi_encode_t_address_to_t_address_fromStack(value0,   add(headStart,   0))\n\n

abi_encode_t_uint256_to_t_uint256_fromStack(value1,   add(headStart,   32))\n\n

abi_encode_t_uint256_to_t_uint256_fromStack(value2, add(headStart, 64))\n\n   }\n\n   function

abi_decode_tuple_t_address(headStart, dataEnd) -> value0 {\n   if slt(sub(dataEnd, headStart),

32) { revert_error_dbdddcbe895c83990c08b3492a0e83918d802a52331272ac6fdb6a7c4aea3b1b()

```
}\n\n        {\n\n            let offset := 0\n\n            value0 := abi_decode_t_address(add(headStart, offset),    dataEnd)\n            }\n\n        }\n\n    function abi_encode_tuple_t_uint256_t_uint256__to_t_uint256_t_uint256__fromStack_reversed(headStart  , value1,  value0)  ->  tail  {\n            tail  :=  add(headStart,  64)\n\n        abi_encode_t_uint256_to_t_uint256_fromStack(value0,      add(headStart,  0))\n\n        abi_encode_t_uint256_to_t_uint256_fromStack(value1,  add(headStart, 32))\n\n    }\n\n    function abi_encode_tuple_t_uint256__to_t_uint256__fromStack_reversed(headStart , value0) -> tail {\n        tail  :=  add(headStart,  32)\n\n            abi_encode_t_uint256_to_t_uint256_fromStack(value0, add(headStart, 0))\n\n    }\n\n    function abi_encode_t_uint256_to_t_uint256(value, pos) {\n        mstore(pos, cleanup_t_uint256(value))\n    }\n\n    // struct LiminalFinancialSystem.Ledger -> struct LiminalFinancialSystem.Ledger\n        function abi_encode_t_struct$_Ledger_$7_memory_ptr_to_t_struct$_Ledger_$7_memory_ptr_fromStack(value, pos) {\n        let tail := add(pos, 0x40)\n\n        {\n            // mainnetBalance\n\n            let memberValue0  :=  mload(add(value,   0x00))\n abi_encode_t_uint256_to_t_uint256(memberValue0, add(pos, 0x00))\n        }\n\n        {\n            // testnetBalance\n\n            let  memberValue0  :=  mload(add(value,  0x20))\n abi_encode_t_uint256_to_t_uint256(memberValue0, add(pos, 0x20))\n        }\n    }\n\n    function abi_encode_tuple_t_struct$_Ledger_$7_memory_ptr__to_t_struct$_Ledger_$7_memory_ptr__fromStack_reversed(headStart  , value0)  ->  tail  {\n        tail  :=  add(headStart, 64)\n\n        abi_encode_t_struct$_Ledger_$7_memory_ptr_to_t_struct$_Ledger_$7_memory_ptr_fromStack(value0,        add(headStart,   0))\n\n        }\n\n        function array_storeLengthForEncoding_t_string_memory_ptr_fromStack(pos, length) -> updated_pos {\n    mstore(pos,  length)\n        updated_pos := add(pos, 0x20)\n    }\n\n        function store_literal_in_memory_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf45(memPtr) {\n\n        mstore(add(memPtr, 0), \"Insufficient mainnet balance.\")\n\n    }\n\n    function abi_encode_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008
```

cf45_to_t_string_memory_ptr_fromStack(pos) -> end {\n pos := array_storeLengthForEncoding_t_string_memory_ptr_fromStack(pos, 29)\n store_literal_in_memory_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf 45(pos)\n end := add(pos, 32)\n }\n\n function abi_encode_tuple_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc11892297711 67008cf45__to_t_string_memory_ptr__fromStack_reversed(headStart) -> tail {\n tail := add(headStart, 32)\n\n mstore(add(headStart, 0), sub(tail, headStart))\n tail := abi_encode_t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008 cf45_to_t_string_memory_ptr_fromStack(tail)\n\n }\n\n function panic_error_0x11() {\n mstore(0, 35408467139433450592217433187231851964531694900788300625387963629091585785856)\n mstore(4, 0x11)\n revert(0, 0x24)\n }\n\n function checked_sub_t_uint256(x, y) -> diff {\n x := cleanup_t_uint256(x)\n y := cleanup_t_uint256(y)\n diff := sub(x, y)\n\n if gt(diff, x) { panic_error_0x11() }\n\n }\n\n function checked_add_t_uint256(x, y) -> sum {\n x := cleanup_t_uint256(x)\n y := cleanup_t_uint256(y)\n sum := add(x, y)\n\n if gt(x, sum) { panic_error_0x11() }\n\n }\n\n}\n",

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                "name": "#utility.yul"

            }

        ],

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PUSH4 0xF7CD6AF9 EQ PUSH2 0xF6 JUMPI JUMPDEST PUSH0 DUP1 REVERT JUMPDEST PUSH2 0x73 PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0x6E SWAP2 SWAP1 PUSH2 0x5B5 JUMP JUMPDEST PUSH2 0x126 JUMP JUMPDEST STOP JUMPDEST PUSH2 0x8F PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0x8A SWAP2 SWAP1 PUSH2 0x5F3 JUMP JUMPDEST PUSH2 0x424 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0x9E SWAP4 SWAP3 SWAP2 SWAP1 PUSH2 0x63C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST PUSH2 0xC1 PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0xBC SWAP2 SWAP1 PUSH2 0x671 JUMP JUMPDEST PUSH2 0x478 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0xCF SWAP3 SWAP2 SWAP1 PUSH2 0x69C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST PUSH2 0xE0 PUSH2 0x497 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0xED SWAP2 SWAP1 PUSH2 0x6C3 JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST PUSH2 0x110 PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0x10B SWAP2 SWAP1 PUSH2 0x671 JUMP JUMPDEST PUSH2 0x4A3 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0x11D SWAP2 SWAP1 PUSH2 0x718 JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST DUP1 PUSH0 DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH0 ADD SLOAD LT ISZERO PUSH2 0x1A7 JUMPI PUSH1 0x40 MLOAD PUSH32 0x8C379A0000000000000000000000000000000000000000000000000000000000 DUP2 MSTORE PUSH1 0x4 ADD PUSH2 0x19E SWAP1 PUSH2 0x78B JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 REVERT JUMPDEST DUP1 PUSH0 DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH0 ADD PUSH0 DUP3

DUP3 SLOAD PUSH2 0x1F4 SWAP2 SWAP1 PUSH2 0x7D6 JUMP JUMPDEST SWAP3 POP POP DUP2 SWAP1 SSTORE POP DUP1 PUSH0 DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x1 ADD PUSH0 DUP3 DUP3 SLOAD PUSH2 0x249 SWAP2 SWAP1 PUSH2 0x809 JUMP JUMPDEST SWAP3 POP POP DUP2 SWAP1 SSTORE POP PUSH1 0x1 PUSH1 0x40 MLOAD DUP1 PUSH1 0x60 ADD PUSH1 0x40 MSTORE DUP1 DUP5 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD DUP4 DUP2 MSTORE PUSH1 0x20 ADD DUP4 DUP2 MSTORE POP SWAP1 DUP1 PUSH1 0x1 DUP2 SLOAD ADD DUP1 DUP3 SSTORE DUP1 SWAP2 POP POP PUSH1 0x1 SWAP1 SUB SWAP1 PUSH0 MSTORE PUSH1 0x20 PUSH0 KECCAK256 SWAP1 PUSH1 0x3 MUL ADD PUSH0 SWAP1 SWAP2 SWAP1 SWAP2 SWAP1 SWAP2 POP PUSH0 DUP3 ADD MLOAD DUP2 PUSH0 ADD PUSH0 PUSH2 0x100 EXP DUP2 SLOAD DUP2 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF MUL NOT AND SWAP1 DUP4 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND MUL OR SWAP1 SSTORE POP PUSH1 0x20 DUP3 ADD MLOAD DUP2 PUSH1 0x1 ADD SSTORE PUSH1 0x40 DUP3 ADD MLOAD DUP2 PUSH1 0x2 ADD SSTORE POP POP DUP2 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH32 0x7772D368CD3CC6FA8DC9C0956D36DD1243D603ABC8D99496F89D0E6950D80DDE DUP3 DUP4 PUSH1 0x40 MLOAD PUSH2 0x34B SWAP3 SWAP2 SWAP1 PUSH2 0x69C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 LOG2 DUP2 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH32 0xE3E2E5B15DBD2776222DEAB4CBD7FB2AEEECFD735EED24E9809B2352F3FA2D37 PUSH0 DUP1 DUP6 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH0 ADD SLOAD PUSH0

DUP1 DUP7 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x1 ADD SLOAD PUSH1 0x40 MLOAD PUSH2 0x418 SWAP3 SWAP2 SWAP1 PUSH2 0x69C JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 LOG2 POP POP JUMP JUMPDEST PUSH1 0x1 DUP2 DUP2 SLOAD DUP2 LT PUSH2 0x433 JUMPI PUSH0 DUP1 REVERT JUMPDEST SWAP1 PUSH0 MSTORE PUSH1 0x20 PUSH0 KECCAK256 SWAP1 PUSH1 0x3 MUL ADD PUSH0 SWAP2 POP SWAP1 POP DUP1 PUSH0 ADD PUSH0 SWAP1 SLOAD SWAP1 PUSH2 0x100 EXP SWAP1 DIV PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND SWAP1 DUP1 PUSH1 0x1 ADD SLOAD SWAP1 DUP1 PUSH1 0x2 ADD SLOAD SWAP1 POP DUP4 JUMP JUMPDEST PUSH0 PUSH1 0x20 MSTORE DUP1 PUSH0 MSTORE PUSH1 0x40 PUSH0 KECCAK256 PUSH0 SWAP2 POP SWAP1 POP DUP1 PUSH0 ADD SLOAD SWAP1 DUP1 PUSH1 0x1 ADD SLOAD SWAP1 POP DUP3 JUMP JUMPDEST PUSH0 PUSH1 0x1 DUP1 SLOAD SWAP1 POP SWAP1 POP SWAP1 JUMP JUMPDEST PUSH2 0x4AB PUSH2 0x50C JUMP JUMPDEST PUSH0 DUP1 DUP4 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF AND DUP2 MSTORE PUSH1 0x20 ADD SWAP1 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 KECCAK256 PUSH1 0x40 MLOAD DUP1 PUSH1 0x40 ADD PUSH1 0x40 MSTORE SWAP1 DUP2 PUSH0 DUP3 ADD SLOAD DUP2 MSTORE PUSH1 0x20 ADD PUSH1 0x1 DUP3 ADD SLOAD DUP2 MSTORE POP POP SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 PUSH1 0x40 ADD PUSH1 0x40 MSTORE DUP1 PUSH0 DUP2 MSTORE PUSH1 0x20 ADD PUSH0 DUP2 MSTORE POP SWAP1 JUMP JUMPDEST PUSH0 DUP1 REVERT JUMPDEST PUSH0 PUSH20 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF DUP3 AND SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH0 PUSH2 0x551 DUP3 PUSH2 0x528 JUMP JUMPDEST SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH2 0x561 DUP2 PUSH2 0x547 JUMP

JUMPDEST DUP2 EQ PUSH2 0x56B JUMPI PUSH0 DUP1 REVERT JUMPDEST POP JUMP JUMPDEST PUSH0 DUP2 CALLDATALOAD SWAP1 POP PUSH2 0x57C DUP2 PUSH2 0x558 JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 DUP2 SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH2 0x594 DUP2 PUSH2 0x582 JUMP JUMPDEST DUP2 EQ PUSH2 0x59E JUMPI PUSH0 DUP1 REVERT JUMPDEST POP JUMP JUMPDEST PUSH0 DUP2 CALLDATALOAD SWAP1 POP PUSH2 0x5AF DUP2 PUSH2 0x58B JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 DUP1 PUSH1 0x40 DUP4 DUP6 SUB SLT ISZERO PUSH2 0x5CB JUMPI PUSH2 0x5CA PUSH2 0x524 JUMP JUMPDEST JUMPDEST PUSH0 PUSH2 0x5D8 DUP6 DUP3 DUP7 ADD PUSH2 0x56E JUMP JUMPDEST SWAP3 POP POP PUSH1 0x20 PUSH2 0x5E9 DUP6 DUP3 DUP7 ADD PUSH2 0x5A1 JUMP JUMPDEST SWAP2 POP POP SWAP3 POP SWAP3 SWAP1 POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 DUP5 SUB SLT ISZERO PUSH2 0x608 JUMPI PUSH2 0x607 PUSH2 0x524 JUMP JUMPDEST JUMPDEST PUSH0 PUSH2 0x615 DUP5 DUP3 DUP6 ADD PUSH2 0x5A1 JUMP JUMPDEST SWAP2 POP POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH2 0x627 DUP2 PUSH2 0x547 JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH2 0x636 DUP2 PUSH2 0x582 JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH0 PUSH1 0x60 DUP3 ADD SWAP1 POP PUSH2 0x64F PUSH0 DUP4 ADD DUP7 PUSH2 0x61E JUMP JUMPDEST PUSH2 0x65C PUSH1 0x20 DUP4 ADD DUP6 PUSH2 0x62D JUMP JUMPDEST PUSH2 0x669 PUSH1 0x40 DUP4 ADD DUP5 PUSH2 0x62D JUMP JUMPDEST SWAP5 SWAP4 POP POP POP POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 DUP5 SUB SLT ISZERO PUSH2 0x686 JUMPI PUSH2 0x685 PUSH2 0x524 JUMP JUMPDEST JUMPDEST PUSH0 PUSH2 0x693 DUP5 DUP3 DUP6 ADD PUSH2 0x56E JUMP JUMPDEST SWAP2 POP POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 PUSH1 0x40 DUP3 ADD SWAP1 POP PUSH2 0x6AF PUSH0 DUP4 ADD DUP6 PUSH2 0x62D JUMP JUMPDEST PUSH2 0x6BC PUSH1 0x20 DUP4 ADD DUP5 PUSH2 0x62D JUMP JUMPDEST SWAP4 SWAP3 POP POP POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 ADD SWAP1 POP PUSH2 0x6D6

PUSH0 DUP4 ADD DUP5 PUSH2 0x62D JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH2 0x6E5 DUP2 PUSH2 0x582 JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH1 0x40 DUP3 ADD PUSH0 DUP3 ADD MLOAD PUSH2 0x6FF PUSH0 DUP6 ADD DUP3 PUSH2 0x6DC JUMP JUMPDEST POP PUSH1 0x20 DUP3 ADD MLOAD PUSH2 0x712 PUSH1 0x20 DUP6 ADD DUP3 PUSH2 0x6DC JUMP JUMPDEST POP POP POP POP JUMP JUMPDEST PUSH0 PUSH1 0x40 DUP3 ADD SWAP1 POP PUSH2 0x72B PUSH0 DUP4 ADD DUP5 PUSH2 0x6EB JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 DUP3 DUP3 MSTORE PUSH1 0x20 DUP3 ADD SWAP1 POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH32 0x496E73756666696369656E74206D61696E6E65742062616C616E63652E000000 PUSH0 DUP3 ADD MSTORE POP JUMP JUMPDEST PUSH0 PUSH2 0x775 PUSH1 0x1D DUP4 PUSH2 0x731 JUMP JUMPDEST SWAP2 POP PUSH2 0x780 DUP3 PUSH2 0x741 JUMP JUMPDEST PUSH1 0x20 DUP3 ADD SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH0 PUSH1 0x20 DUP3 ADD SWAP1 POP DUP2 DUP2 SUB PUSH0 DUP4 ADD MSTORE PUSH2 0x7A2 DUP2 PUSH2 0x769 JUMP JUMPDEST SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH32 0x4E487B7100000000000000000000000000000000000000000000000000000000 PUSH0 MSTORE PUSH1 0x11 PUSH1 0x4 MSTORE PUSH1 0x24 PUSH0 REVERT JUMPDEST PUSH0 PUSH2 0x7E0 DUP3 PUSH2 0x582 JUMP JUMPDEST SWAP2 POP PUSH2 0x7EB DUP4 PUSH2 0x582 JUMP JUMPDEST SWAP3 POP DUP3 DUP3 SUB SWAP1 POP DUP2 DUP2 GT ISZERO PUSH2 0x803 JUMPI PUSH2 0x802 PUSH2 0x7A9 JUMP JUMPDEST JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH0 PUSH2 0x813 DUP3 PUSH2 0x582 JUMP JUMPDEST SWAP2 POP PUSH2 0x81E DUP4 PUSH2 0x582 JUMP JUMPDEST SWAP3 POP DUP3 DUP3 ADD SWAP1 POP DUP1 DUP3 GT ISZERO PUSH2 0x836 JUMPI PUSH2 0x835 PUSH2 0x7A9 JUMP JUMPDEST JUMPDEST SWAP3 SWAP2 POP POP JUMP INVALID LOG2 PUSH5 0x6970667358 0x22 SLT KECCAK256 EXP GAS 0xF DUP4 DUP14 EQ 0xAB DUP3 PUSH28 0xD80C3BE88FE223705850E5E032F9B180CC58570FA631ED64736F6C63 NUMBER

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      "name": "ADD",

      "source": 0

    },

    {

      "begin": 1571,

      "end": 1590,

      "name": "SWAP1",

```json
      "source": 0
    },
    {
      "begin": 1571,
      "end": 1590,
      "name": "DUP2",
      "source": 0
    },
    {
      "begin": 1571,
      "end": 1590,
      "name": "MSTORE",
      "source": 0
    },
    {
      "begin": 1571,
      "end": 1590,
      "name": "PUSH",
      "source": 0,
      "value": "20"
    },
    {
      "begin": 1571,
      "end": 1590,
      "name": "ADD",
      "source": 0
```

```
        },
        {
            "begin": 1571,

            "end": 1590,

            "name": "PUSH",

            "source": 0,

            "value": "0"
        },
        {
            "begin": 1571,

            "end": 1590,

            "name": "KECCAK256",

            "source": 0
        },
        {
            "begin": 1571,

            "end": 1605,

            "name": "PUSH",

            "source": 0,

            "value": "0"
        },
        {
            "begin": 1571,

            "end": 1605,

            "name": "ADD",

            "source": 0
```

```json
    },
    {
        "begin": 1571,
        "end": 1612,
        "name": "DUP2",
        "source": 0
    },
    {
        "begin": 1571,
        "end": 1612,
        "name": "SWAP1",
        "source": 0
    },
    {
        "begin": 1571,
        "end": 1612,
        "name": "SSTORE",
        "source": 0
    },
    {
        "begin": 1571,
        "end": 1612,
        "name": "POP",
        "source": 0
    },
    {
```

      "begin": 1687,

      "end": 1690,

      "name": "PUSH",

      "source": 0,

      "value": "1F4"

    },

    {

      "begin": 1650,

      "end": 1657,

      "name": "PUSH",

      "source": 0,

      "value": "0"

    },

    {

      "begin": 1650,

      "end": 1669,

      "name": "DUP1",

      "source": 0

    },

    {

      "begin": 1658,

      "end": 1668,

      "name": "CALLER",

      "source": 0

    },

    {

      "begin": 1650,

      "end": 1669,

      "name": "PUSH",

      "source": 0,

      "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

  },

  {

      "begin": 1650,

      "end": 1669,

      "name": "AND",

      "source": 0

  },

  {

      "begin": 1650,

      "end": 1669,

      "name": "PUSH",

      "source": 0,

      "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

  },

  {

      "begin": 1650,

      "end": 1669,

      "name": "AND",

      "source": 0

  },

  {

        "begin": 1650,

        "end": 1669,

        "name": "DUP2",

        "source": 0

    },

    {

        "begin": 1650,

        "end": 1669,

        "name": "MSTORE",

        "source": 0

    },

    {

        "begin": 1650,

        "end": 1669,

        "name": "PUSH",

        "source": 0,

        "value": "20"

    },

    {

        "begin": 1650,

        "end": 1669,

        "name": "ADD",

        "source": 0

    },

    {

        "begin": 1650,

        "end": 1669,

        "name": "SWAP1",

        "source": 0

    },

    {

        "begin": 1650,

        "end": 1669,

        "name": "DUP2",

        "source": 0

    },

    {

        "begin": 1650,

        "end": 1669,

        "name": "MSTORE",

        "source": 0

    },

    {

        "begin": 1650,

        "end": 1669,

        "name": "PUSH",

        "source": 0,

        "value": "20"

    },

    {

        "begin": 1650,

        "end": 1669,

            "name": "ADD",

            "source": 0

        },

        {

            "begin": 1650,

            "end": 1669,

            "name": "PUSH",

            "source": 0,

            "value": "0"

        },

        {

            "begin": 1650,

            "end": 1669,

            "name": "KECCAK256",

            "source": 0

        },

        {

            "begin": 1650,

            "end": 1684,

            "name": "PUSH",

            "source": 0,

            "value": "1"

        },

        {

            "begin": 1650,

            "end": 1684,

```json
      "name": "ADD",

      "source": 0

   },

   {

      "begin": 1650,

      "end": 1690,

      "name": "DUP2",

      "source": 0

   },

   {

      "begin": 1650,

      "end": 1690,

      "name": "SWAP1",

      "source": 0

   },

   {

      "begin": 1650,

      "end": 1690,

      "name": "SSTORE",

      "source": 0

   },

   {

      "begin": 1650,

      "end": 1690,

      "name": "POP",

      "source": 0

   },
```

                },
                {
                    "begin": 393,

                    "end": 3223,

                    "name": "PUSH #[$]",

                    "source": 0,

                                                                                "value":

"00000000000000000000000000000000000000000000000000000000000000000"
                },
                {
                    "begin": 393,

                    "end": 3223,

                    "name": "DUP1",

                    "source": 0
                },
                {
                    "begin": 393,

                    "end": 3223,

                    "name": "PUSH [$]",

                    "source": 0,

                                                                                "value":

"00000000000000000000000000000000000000000000000000000000000000000"
                },
                {
                    "begin": 393,

                    "end": 3223,

```
      "name": "PUSH",

      "source": 0,

      "value": "0"

  },

  {

      "begin": 393,

      "end": 3223,

      "name": "CODECOPY",

      "source": 0

  },

  {

      "begin": 393,

      "end": 3223,

      "name": "PUSH",

      "source": 0,

      "value": "0"

  },

  {

      "begin": 393,

      "end": 3223,

      "name": "RETURN",

      "source": 0

  }

],

".data": {

  "0": {
```

".auxdata": "a26469706673582212200a5a0f838d14ab827bd80c3be88fe223705850e5e032f9b180cc58570fa631ed64736f6c63430008190033",

".code": [

    {

        "begin": 393,

        "end": 3223,

        "name": "PUSH",

        "source": 0,

        "value": "80"

    },

    {

        "begin": 393,

        "end": 3223,

        "name": "PUSH",

        "source": 0,

        "value": "40"

    },

    {

        "begin": 393,

        "end": 3223,

        "name": "MSTORE",

        "source": 0

    },

    {

        "begin": 393,

```json
      "end": 3223,

      "name": "CALLVALUE",

      "source": 0

    },

    {

      "begin": 393,

      "end": 3223,

      "name": "DUP1",

      "source": 0

    },

    {

      "begin": 393,

      "end": 3223,

      "name": "ISZERO",

      "source": 0

    },

    {

      "begin": 393,

      "end": 3223,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "1"

    },

    {

      "begin": 393,

      "end": 3223,
```

```json
      "name": "JUMPI",

      "source": 0

    },

    {

      "begin": 393,

      "end": 3223,

      "name": "PUSH",

      "source": 0,

      "value": "0"

    },

    {

      "begin": 393,

      "end": 3223,

      "name": "DUP1",

      "source": 0

    },

    {

      "begin": 393,

      "end": 3223,

      "name": "REVERT",

      "source": 0

    },

    {

      "begin": 393,

      "end": 3223,

      "name": "tag",
```

```json
      "source": 0,

      "value": "1"

   },

   {

      "begin": 393,

      "end": 3223,

      "name": "JUMPDEST",

      "source": 0

   },

   {

      "begin": 393,

      "end": 3223,

      "name": "POP",

      "source": 0

   },

   {

      "begin": 393,

      "end": 3223,

      "name": "PUSH",

      "source": 0,

      "value": "4"

   },

   {

      "begin": 393,

      "end": 3223,

      "name": "CALLDATASIZE",
```

```
            "source": 0
        },
        {
            "begin": 393,
            "end": 3223,
            "name": "LT",
            "source": 0
        },
        {
            "begin": 393,
            "end": 3223,
            "name": "PUSH [tag]",
            "source": 0,
            "value": "2"
        },
        {
            "begin": 393,
            "end": 3223,
            "name": "JUMPI",
            "source": 0
        },
        {
            "begin": 393,
            "end": 3223,
            "name": "PUSH",
            "source": 0,
```

```json
      "value": "0"
    },
    {
      "begin": 393,
      "end": 3223,
      "name": "CALLDATALOAD",
      "source": 0
    },
    {
      "begin": 393,
      "end": 3223,
      "name": "PUSH",
      "source": 0,
      "value": "E0"
    },
    {
      "begin": 393,
      "end": 3223,
      "name": "SHR",
      "source": 0
    },
    {
      "begin": 393,
      "end": 3223,
      "name": "DUP1",
      "source": 0
```

    },
    {
        "begin": 393,

        "end": 3223,

        "name": "PUSH",

        "source": 0,

        "value": "67844D2B"
    },
    {
        "begin": 393,

        "end": 3223,

        "name": "EQ",

        "source": 0
    },
    {
        "begin": 393,

        "end": 3223,

        "name": "PUSH [tag]",

        "source": 0,

        "value": "3"
    },
    {
        "begin": 393,

        "end": 3223,

        "name": "JUMPI",

        "source": 0

```
        },
        {
            "begin": 393,
            "end": 3223,
            "name": "DUP1",
            "source": 0
        },
        {
            "begin": 393,
            "end": 3223,
            "name": "PUSH",
            "source": 0,
            "value": "9ACE38C2"
        },
        {
            "begin": 393,
            "end": 3223,
            "name": "EQ",
            "source": 0
        },
        {
            "begin": 393,
            "end": 3223,
            "name": "PUSH [tag]",
            "source": 0,
            "value": "4"
```

    },
    {
        "begin": 393,
        "end": 3223,
        "name": "JUMPI",
        "source": 0
    },
    {
        "begin": 393,
        "end": 3223,
        "name": "DUP1",
        "source": 0
    },
    {
        "begin": 393,
        "end": 3223,
        "name": "PUSH",
        "source": 0,
        "value": "B1E1C370"
    },
    {
        "begin": 393,
        "end": 3223,
        "name": "EQ",
        "source": 0
    },

```json
    {
        "begin": 393,
        "end": 3223,
        "name": "PUSH [tag]",
        "source": 0,
        "value": "5"
    },
    {
        "begin": 393,
        "end": 3223,
        "name": "JUMPI",
        "source": 0
    },
    {
        "begin": 393,
        "end": 3223,
        "name": "DUP1",
        "source": 0
    },
    {
        "begin": 393,
        "end": 3223,
        "name": "PUSH",
        "source": 0,
        "value": "B5C604FF"
    },
```

```json
    {
        "begin": 393,
        "end": 3223,
        "name": "EQ",
        "source": 0
    },
    {
        "begin": 393,
        "end": 3223,
        "name": "PUSH [tag]",
        "source": 0,
        "value": "6"
    },
    {
        "begin": 393,
        "end": 3223,
        "name": "JUMPI",
        "source": 0
    },
    {
        "begin": 393,
        "end": 3223,
        "name": "DUP1",
        "source": 0
    },
    {
```

```json
      "begin": 393,

      "end": 3223,

      "name": "PUSH",

      "source": 0,

      "value": "F7CD6AF9"

  },

  {

      "begin": 393,

      "end": 3223,

      "name": "EQ",

      "source": 0

  },

  {

      "begin": 393,

      "end": 3223,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "7"

  },

  {

      "begin": 393,

      "end": 3223,

      "name": "JUMPI",

      "source": 0

  },

  {
```

      "begin": 393,

      "end": 3223,

      "name": "tag",

      "source": 0,

      "value": "2"

  },

  {

      "begin": 393,

      "end": 3223,

      "name": "JUMPDEST",

      "source": 0

  },

  {

      "begin": 393,

      "end": 3223,

      "name": "PUSH",

      "source": 0,

      "value": "0"

  },

  {

      "begin": 393,

      "end": 3223,

      "name": "DUP1",

      "source": 0

  },

  {

```json
      "begin": 393,

      "end": 3223,

      "name": "REVERT",

      "source": 0

    },

    {

      "begin": 1992,

      "end": 2640,

      "name": "tag",

      "source": 0,

      "value": "3"

    },

    {

      "begin": 1992,

      "end": 2640,

      "name": "JUMPDEST",

      "source": 0

    },

    {

      "begin": 1992,

      "end": 2640,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "8"

    },

    {
```

      "begin": 1992,

      "end": 2640,

      "name": "PUSH",

      "source": 0,

      "value": "4"

   },

   {

      "begin": 1992,

      "end": 2640,

      "name": "DUP1",

      "source": 0

   },

   {

      "begin": 1992,

      "end": 2640,

      "name": "CALLDATASIZE",

      "source": 0

   },

   {

      "begin": 1992,

      "end": 2640,

      "name": "SUB",

      "source": 0

   },

   {

      "begin": 1992,

```
            "end": 2640,

            "name": "DUP2",

            "source": 0

        },

        {

            "begin": 1992,

            "end": 2640,

            "name": "ADD",

            "source": 0

        },

        {

            "begin": 1992,

            "end": 2640,

            "name": "SWAP1",

            "source": 0

        },

        {

            "begin": 1992,

            "end": 2640,

            "name": "PUSH [tag]",

            "source": 0,

            "value": "9"

        },

        {

            "begin": 1992,

            "end": 2640,
```

      "name": "SWAP2",

      "source": 0

  },

  {

      "begin": 1992,

      "end": 2640,

      "name": "SWAP1",

      "source": 0

  },

  {

      "begin": 1992,

      "end": 2640,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "10"

  },

  {

      "begin": 1992,

      "end": 2640,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 0

  },

  {

      "begin": 1992,

      "end": 2640,

```json
      "name": "tag",

      "source": 0,

      "value": "9"

   },

   {

      "begin": 1992,

      "end": 2640,

      "name": "JUMPDEST",

      "source": 0

   },

   {

      "begin": 1992,

      "end": 2640,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "11"

   },

   {

      "begin": 1992,

      "end": 2640,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 0

   },

   {

      "begin": 1992,
```

```json
      "end": 2640,

      "name": "tag",

      "source": 0,

      "value": "8"

    },

    {

      "begin": 1992,

      "end": 2640,

      "name": "JUMPDEST",

      "source": 0

    },

    {

      "begin": 1992,

      "end": 2640,

      "name": "STOP",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "tag",

      "source": 0,

      "value": "4"

    },

    {

      "begin": 1082,
```

        "end": 1115,

        "name": "JUMPDEST",

        "source": 0

    },

    {

        "begin": 1082,

        "end": 1115,

        "name": "PUSH [tag]",

        "source": 0,

        "value": "12"

    },

    {

        "begin": 1082,

        "end": 1115,

        "name": "PUSH",

        "source": 0,

        "value": "4"

    },

    {

        "begin": 1082,

        "end": 1115,

        "name": "DUP1",

        "source": 0

    },

    {

        "begin": 1082,

```json
        "end": 1115,

        "name": "CALLDATASIZE",

        "source": 0

    },

    {

        "begin": 1082,

        "end": 1115,

        "name": "SUB",

        "source": 0

    },

    {

        "begin": 1082,

        "end": 1115,

        "name": "DUP2",

        "source": 0

    },

    {

        "begin": 1082,

        "end": 1115,

        "name": "ADD",

        "source": 0

    },

    {

        "begin": 1082,

        "end": 1115,

        "name": "SWAP1",
```

```json
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "PUSH [tag]",
      "source": 0,
      "value": "13"
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "SWAP2",
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "SWAP1",
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "PUSH [tag]",
      "source": 0,
```

```json
      "value": "14"
    },
    {
      "begin": 1082,
      "end": 1115,
      "jumpType": "[in]",
      "name": "JUMP",
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "tag",
      "source": 0,
      "value": "13"
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "JUMPDEST",
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "PUSH [tag]",
```

```json
      "source": 0,
      "value": "15"
    },
    {
      "begin": 1082,
      "end": 1115,
      "jumpType": "[in]",
      "name": "JUMP",
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "tag",
      "source": 0,
      "value": "12"
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "JUMPDEST",
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
```

```json
        "name": "PUSH",

        "source": 0,

        "value": "40"

    },

    {

        "begin": 1082,

        "end": 1115,

        "name": "MLOAD",

        "source": 0

    },

    {

        "begin": 1082,

        "end": 1115,

        "name": "PUSH [tag]",

        "source": 0,

        "value": "16"

    },

    {

        "begin": 1082,

        "end": 1115,

        "name": "SWAP4",

        "source": 0

    },

    {

        "begin": 1082,

        "end": 1115,
```

```json
      "name": "SWAP3",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "SWAP2",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "SWAP1",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "17"

    },

    {

      "begin": 1082,

      "end": 1115,

      "jumpType": "[in]",
```

```json
      "name": "JUMP",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "tag",

      "source": 0,

      "value": "16"

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "JUMPDEST",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "PUSH",

      "source": 0,

      "value": "40"

    },

    {

      "begin": 1082,

      "end": 1115,
```

```json
      "name": "MLOAD",

      "source": 0

   },

   {

      "begin": 1082,

      "end": 1115,

      "name": "DUP1",

      "source": 0

   },

   {

      "begin": 1082,

      "end": 1115,

      "name": "SWAP2",

      "source": 0

   },

   {

      "begin": 1082,

      "end": 1115,

      "name": "SUB",

      "source": 0

   },

   {

      "begin": 1082,

      "end": 1115,

      "name": "SWAP1",

      "source": 0
```

```json
        },
        {
            "begin": 1082,

            "end": 1115,

            "name": "RETURN",

            "source": 0
        },
        {
            "begin": 982,

            "end": 1023,

            "name": "tag",

            "source": 0,

            "value": "5"
        },
        {
            "begin": 982,

            "end": 1023,

            "name": "JUMPDEST",

            "source": 0
        },
        {
            "begin": 982,

            "end": 1023,

            "name": "PUSH [tag]",

            "source": 0,

            "value": "18"
```

```json
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "PUSH",
        "source": 0,
        "value": "4"
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "DUP1",
        "source": 0
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "CALLDATASIZE",
        "source": 0
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "SUB",
        "source": 0
    },
```

```json
  {
    "begin": 982,
    "end": 1023,
    "name": "DUP2",
    "source": 0
  },
  {
    "begin": 982,
    "end": 1023,
    "name": "ADD",
    "source": 0
  },
  {
    "begin": 982,
    "end": 1023,
    "name": "SWAP1",
    "source": 0
  },
  {
    "begin": 982,
    "end": 1023,
    "name": "PUSH [tag]",
    "source": 0,
    "value": "19"
  },
  {
```

      "begin": 982,

      "end": 1023,

      "name": "SWAP2",

      "source": 0

    },

    {

      "begin": 982,

      "end": 1023,

      "name": "SWAP1",

      "source": 0

    },

    {

      "begin": 982,

      "end": 1023,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "20"

    },

    {

      "begin": 982,

      "end": 1023,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 0

    },

    {

      "begin": 982,

      "end": 1023,

      "name": "tag",

      "source": 0,

      "value": "19"

   },

   {

      "begin": 982,

      "end": 1023,

      "name": "JUMPDEST",

      "source": 0

   },

   {

      "begin": 982,

      "end": 1023,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "21"

   },

   {

      "begin": 982,

      "end": 1023,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 0

   },

```json
    {
        "begin": 982,
        "end": 1023,
        "name": "tag",
        "source": 0,
        "value": "18"
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "JUMPDEST",
        "source": 0
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "PUSH",
        "source": 0,
        "value": "40"
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "MLOAD",
        "source": 0
    },
```

```json
  {
    "begin": 982,
    "end": 1023,
    "name": "PUSH [tag]",
    "source": 0,
    "value": "22"
  },
  {
    "begin": 982,
    "end": 1023,
    "name": "SWAP3",
    "source": 0
  },
  {
    "begin": 982,
    "end": 1023,
    "name": "SWAP2",
    "source": 0
  },
  {
    "begin": 982,
    "end": 1023,
    "name": "SWAP1",
    "source": 0
  },
  {
```

            "begin": 982,

            "end": 1023,

            "name": "PUSH [tag]",

            "source": 0,

            "value": "23"

        },

        {

            "begin": 982,

            "end": 1023,

            "jumpType": "[in]",

            "name": "JUMP",

            "source": 0

        },

        {

            "begin": 982,

            "end": 1023,

            "name": "tag",

            "source": 0,

            "value": "22"

        },

        {

            "begin": 982,

            "end": 1023,

            "name": "JUMPDEST",

            "source": 0

        },

```json
    {
        "begin": 982,
        "end": 1023,
        "name": "PUSH",
        "source": 0,
        "value": "40"
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "MLOAD",
        "source": 0
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "DUP1",
        "source": 0
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "SWAP2",
        "source": 0
    },
    {
```

      "begin": 982,

      "end": 1023,

      "name": "SUB",

      "source": 0

    },

    {

      "begin": 982,

      "end": 1023,

      "name": "SWAP1",

      "source": 0

    },

    {

      "begin": 982,

      "end": 1023,

      "name": "RETURN",

      "source": 0

    },

    {

      "begin": 3116,

      "end": 3221,

      "name": "tag",

      "source": 0,

      "value": "6"

    },

    {

      "begin": 3116,

      "end": 3221,

      "name": "JUMPDEST",

      "source": 0

},

{

      "begin": 3116,

      "end": 3221,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "24"

},

{

      "begin": 3116,

      "end": 3221,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "25"

},

{

      "begin": 3116,

      "end": 3221,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 0

},

{

```json
      "begin": 3116,

      "end": 3221,

      "name": "tag",

      "source": 0,

      "value": "24"

    },

    {

      "begin": 3116,

      "end": 3221,

      "name": "JUMPDEST",

      "source": 0

    },

    {

      "begin": 3116,

      "end": 3221,

      "name": "PUSH",

      "source": 0,

      "value": "40"

    },

    {

      "begin": 3116,

      "end": 3221,

      "name": "MLOAD",

      "source": 0

    },

    {
```

      "begin": 3116,

      "end": 3221,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "26"

    },

    {

      "begin": 3116,

      "end": 3221,

      "name": "SWAP2",

      "source": 0

    },

    {

      "begin": 3116,

      "end": 3221,

      "name": "SWAP1",

      "source": 0

    },

    {

      "begin": 3116,

      "end": 3221,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "27"

    },

    {

```json
      "begin": 3116,

      "end": 3221,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 0

    },

    {

      "begin": 3116,

      "end": 3221,

      "name": "tag",

      "source": 0,

      "value": "26"

    },

    {

      "begin": 3116,

      "end": 3221,

      "name": "JUMPDEST",

      "source": 0

    },

    {

      "begin": 3116,

      "end": 3221,

      "name": "PUSH",

      "source": 0,

      "value": "40"

    },
```

```json
  {
    "begin": 3116,
    "end": 3221,
    "name": "MLOAD",
    "source": 0
  },
  {
    "begin": 3116,
    "end": 3221,
    "name": "DUP1",
    "source": 0
  },
  {
    "begin": 3116,
    "end": 3221,
    "name": "SWAP2",
    "source": 0
  },
  {
    "begin": 3116,
    "end": 3221,
    "name": "SUB",
    "source": 0
  },
  {
    "begin": 3116,
```

```json
      "end": 3221,

      "name": "SWAP1",

      "source": 0

    },

    {

      "begin": 3116,

      "end": 3221,

      "name": "RETURN",

      "source": 0

    },

    {

      "begin": 2845,

      "end": 2965,

      "name": "tag",

      "source": 0,

      "value": "7"

    },

    {

      "begin": 2845,

      "end": 2965,

      "name": "JUMPDEST",

      "source": 0

    },

    {

      "begin": 2845,

      "end": 2965,
```

```json
      "name": "PUSH [tag]",

      "source": 0,

      "value": "28"

    },

    {

      "begin": 2845,

      "end": 2965,

      "name": "PUSH",

      "source": 0,

      "value": "4"

    },

    {

      "begin": 2845,

      "end": 2965,

      "name": "DUP1",

      "source": 0

    },

    {

      "begin": 2845,

      "end": 2965,

      "name": "CALLDATASIZE",

      "source": 0

    },

    {

      "begin": 2845,

      "end": 2965,
```

```json
        "name": "SUB",

        "source": 0

    },

    {

        "begin": 2845,

        "end": 2965,

        "name": "DUP2",

        "source": 0

    },

    {

        "begin": 2845,

        "end": 2965,

        "name": "ADD",

        "source": 0

    },

    {

        "begin": 2845,

        "end": 2965,

        "name": "SWAP1",

        "source": 0

    },

    {

        "begin": 2845,

        "end": 2965,

        "name": "PUSH [tag]",

        "source": 0,
```

        "value": "29"

    },

    {

        "begin": 2845,

        "end": 2965,

        "name": "SWAP2",

        "source": 0

    },

    {

        "begin": 2845,

        "end": 2965,

        "name": "SWAP1",

        "source": 0

    },

    {

        "begin": 2845,

        "end": 2965,

        "name": "PUSH [tag]",

        "source": 0,

        "value": "20"

    },

    {

        "begin": 2845,

        "end": 2965,

        "jumpType": "[in]",

        "name": "JUMP",

```json
            "source": 0
        },
        {
            "begin": 2845,
            "end": 2965,
            "name": "tag",
            "source": 0,
            "value": "29"
        },
        {
            "begin": 2845,
            "end": 2965,
            "name": "JUMPDEST",
            "source": 0
        },
        {
            "begin": 2845,
            "end": 2965,
            "name": "PUSH [tag]",
            "source": 0,
            "value": "30"
        },
        {
            "begin": 2845,
            "end": 2965,
            "jumpType": "[in]",
```

```json
      "name": "JUMP",

      "source": 0
   },
   {

      "begin": 2845,

      "end": 2965,

      "name": "tag",

      "source": 0,

      "value": "28"
   },
   {

      "begin": 2845,

      "end": 2965,

      "name": "JUMPDEST",

      "source": 0
   },
   {

      "begin": 2845,

      "end": 2965,

      "name": "PUSH",

      "source": 0,

      "value": "40"
   },
   {

      "begin": 2845,

      "end": 2965,
```

            "name": "MLOAD",

            "source": 0

        },

        {

            "begin": 2845,

            "end": 2965,

            "name": "PUSH [tag]",

            "source": 0,

            "value": "31"

        },

        {

            "begin": 2845,

            "end": 2965,

            "name": "SWAP2",

            "source": 0

        },

        {

            "begin": 2845,

            "end": 2965,

            "name": "SWAP1",

            "source": 0

        },

        {

            "begin": 2845,

            "end": 2965,

            "name": "PUSH [tag]",

      "source": 0,

      "value": "32"

    },

    {

      "begin": 2845,

      "end": 2965,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 0

    },

    {

      "begin": 2845,

      "end": 2965,

      "name": "tag",

      "source": 0,

      "value": "31"

    },

    {

      "begin": 2845,

      "end": 2965,

      "name": "JUMPDEST",

      "source": 0

    },

    {

      "begin": 2845,

      "end": 2965,

```json
        "name": "PUSH",

        "source": 0,

        "value": "40"

    },

    {

        "begin": 2845,

        "end": 2965,

        "name": "MLOAD",

        "source": 0

    },

    {

        "begin": 2845,

        "end": 2965,

        "name": "DUP1",

        "source": 0

    },

    {

        "begin": 2845,

        "end": 2965,

        "name": "SWAP2",

        "source": 0

    },

    {

        "begin": 2845,

        "end": 2965,

        "name": "SUB",
```

          "source": 0
      },
      {
          "begin": 2845,
          "end": 2965,
          "name": "SWAP1",
          "source": 0
      },
      {
          "begin": 2845,
          "end": 2965,
          "name": "RETURN",
          "source": 0
      },
      {
          "begin": 1992,
          "end": 2640,
          "name": "tag",
          "source": 0,
          "value": "11"
      },
      {
          "begin": 1992,
          "end": 2640,
          "name": "JUMPDEST",
          "source": 0

        },
        {
            "begin": 2123,

            "end": 2129,

            "name": "DUP1",

            "source": 0
        },
        {
            "begin": 2084,

            "end": 2091,

            "name": "PUSH",

            "source": 0,

            "value": "0"
        },
        {
            "begin": 2084,

            "end": 2104,

            "name": "DUP1",

            "source": 0
        },
        {
            "begin": 2092,

            "end": 2103,

            "name": "DUP5",

            "source": 0
        },

```json
{
    "begin": 2084,
    "end": 2104,
    "name": "PUSH",
    "source": 0,
    "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"
},
{
    "begin": 2084,
    "end": 2104,
    "name": "AND",
    "source": 0
},
{
    "begin": 2084,
    "end": 2104,
    "name": "PUSH",
    "source": 0,
    "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"
},
{
    "begin": 2084,
    "end": 2104,
    "name": "AND",
    "source": 0
},
```

```json
  {
    "begin": 2084,
    "end": 2104,
    "name": "DUP2",
    "source": 0
  },
  {
    "begin": 2084,
    "end": 2104,
    "name": "MSTORE",
    "source": 0
  },
  {
    "begin": 2084,
    "end": 2104,
    "name": "PUSH",
    "source": 0,
    "value": "20"
  },
  {
    "begin": 2084,
    "end": 2104,
    "name": "ADD",
    "source": 0
  },
  {
```

```
      "begin": 2084,

      "end": 2104,

      "name": "SWAP1",

      "source": 0

   },

   {

      "begin": 2084,

      "end": 2104,

      "name": "DUP2",

      "source": 0

   },

   {

      "begin": 2084,

      "end": 2104,

      "name": "MSTORE",

      "source": 0

   },

   {

      "begin": 2084,

      "end": 2104,

      "name": "PUSH",

      "source": 0,

      "value": "20"

   },

   {

      "begin": 2084,
```

```json
      "end": 2104,

      "name": "ADD",

      "source": 0

    },

    {

      "begin": 2084,

      "end": 2104,

      "name": "PUSH",

      "source": 0,

      "value": "0"

    },

    {

      "begin": 2084,

      "end": 2104,

      "name": "KECCAK256",

      "source": 0

    },

    {

      "begin": 2084,

      "end": 2119,

      "name": "PUSH",

      "source": 0,

      "value": "0"

    },

    {

      "begin": 2084,
```

```json
      "end": 2119,

      "name": "ADD",

      "source": 0

  },

  {

      "begin": 2084,

      "end": 2119,

      "name": "SLOAD",

      "source": 0

  },

  {

      "begin": 2084,

      "end": 2129,

      "name": "LT",

      "source": 0

  },

  {

      "begin": 2084,

      "end": 2129,

      "name": "ISZERO",

      "source": 0

  },

  {

      "begin": 2076,

      "end": 2163,

      "name": "PUSH [tag]",
```

```json
      "source": 0,

      "value": "34"

    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "JUMPI",

      "source": 0

    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "PUSH",

      "source": 0,

      "value": "40"

    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "MLOAD",

      "source": 0

    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "PUSH",
```

```
                    "source": 0,

                                                                    "value":

"8C379A00000000000000000000000000000000000000000000000000000000"

                },

                {

                    "begin": 2076,

                    "end": 2163,

                    "name": "DUP2",

                    "source": 0

                },

                {

                    "begin": 2076,

                    "end": 2163,

                    "name": "MSTORE",

                    "source": 0

                },

                {

                    "begin": 2076,

                    "end": 2163,

                    "name": "PUSH",

                    "source": 0,

                    "value": "4"

                },

                {

                    "begin": 2076,

                    "end": 2163,
```

```json
      "name": "ADD",

      "source": 0

    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "35"

    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "SWAP1",

      "source": 0

    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "36"

    },

    {

      "begin": 2076,

      "end": 2163,
```

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 0

    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "tag",

      "source": 0,

      "value": "35"

    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "JUMPDEST",

      "source": 0

    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "PUSH",

      "source": 0,

      "value": "40"

    },

    {

      "begin": 2076,

```json
      "end": 2163,

      "name": "MLOAD",

      "source": 0
    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "DUP1",

      "source": 0
    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "SWAP2",

      "source": 0
    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "SUB",

      "source": 0
    },

    {

      "begin": 2076,

      "end": 2163,

      "name": "SWAP1",
```

```json
      "source": 0
    },
    {
      "begin": 2076,
      "end": 2163,
      "name": "REVERT",
      "source": 0
    },
    {
      "begin": 2076,
      "end": 2163,
      "name": "tag",
      "source": 0,
      "value": "34"
    },
    {
      "begin": 2076,
      "end": 2163,
      "name": "JUMPDEST",
      "source": 0
    },
    {
      "begin": 2265,
      "end": 2271,
      "name": "DUP1",
      "source": 0
```

    },
    {
        "begin": 2226,

        "end": 2233,

        "name": "PUSH",

        "source": 0,

        "value": "0"
    },
    {
        "begin": 2226,

        "end": 2246,

        "name": "DUP1",

        "source": 0
    },
    {
        "begin": 2234,

        "end": 2245,

        "name": "DUP5",

        "source": 0
    },
    {
        "begin": 2226,

        "end": 2246,

        "name": "PUSH",

        "source": 0,

        "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

        },

        {

            "begin": 2226,

            "end": 2246,

            "name": "AND",

            "source": 0

        },

        {

            "begin": 2226,

            "end": 2246,

            "name": "PUSH",

            "source": 0,

            "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

        },

        {

            "begin": 2226,

            "end": 2246,

            "name": "AND",

            "source": 0

        },

        {

            "begin": 2226,

            "end": 2246,

            "name": "DUP2",

            "source": 0

        },

```json
{
    "begin": 2226,
    "end": 2246,
    "name": "MSTORE",
    "source": 0
},
{
    "begin": 2226,
    "end": 2246,
    "name": "PUSH",
    "source": 0,
    "value": "20"
},
{
    "begin": 2226,
    "end": 2246,
    "name": "ADD",
    "source": 0
},
{
    "begin": 2226,
    "end": 2246,
    "name": "SWAP1",
    "source": 0
},
{
```

```json
      "begin": 2226,

      "end": 2246,

      "name": "DUP2",

      "source": 0

    },

    {

      "begin": 2226,

      "end": 2246,

      "name": "MSTORE",

      "source": 0

    },

    {

      "begin": 2226,

      "end": 2246,

      "name": "PUSH",

      "source": 0,

      "value": "20"

    },

    {

      "begin": 2226,

      "end": 2246,

      "name": "ADD",

      "source": 0

    },

    {

      "begin": 2226,
```

```json
      "end": 2246,

      "name": "PUSH",

      "source": 0,

      "value": "0"

    },

    {

      "begin": 2226,

      "end": 2246,

      "name": "KECCAK256",

      "source": 0

    },

    {

      "begin": 2226,

      "end": 2261,

      "name": "PUSH",

      "source": 0,

      "value": "0"

    },

    {

      "begin": 2226,

      "end": 2261,

      "name": "ADD",

      "source": 0

    },

    {

      "begin": 2226,
```

      "end": 2261,

      "name": "PUSH",

      "source": 0,

      "value": "0"

   },

   {

      "begin": 2226,

      "end": 2271,

      "name": "DUP3",

      "source": 0

   },

   {

      "begin": 2226,

      "end": 2271,

      "name": "DUP3",

      "source": 0

   },

   {

      "begin": 2226,

      "end": 2271,

      "name": "SLOAD",

      "source": 0

   },

   {

      "begin": 2226,

      "end": 2271,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "37"

    },

    {

      "begin": 2226,

      "end": 2271,

      "name": "SWAP2",

      "source": 0

    },

    {

      "begin": 2226,

      "end": 2271,

      "name": "SWAP1",

      "source": 0

    },

    {

      "begin": 2226,

      "end": 2271,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "38"

    },

    {

      "begin": 2226,

      "end": 2271,

```json
      "jumpType": "[in]",

      "name": "JUMP",

      "source": 0

    },

    {

      "begin": 2226,

      "end": 2271,

      "name": "tag",

      "source": 0,

      "value": "37"

    },

    {

      "begin": 2226,

      "end": 2271,

      "name": "JUMPDEST",

      "source": 0

    },

    {

      "begin": 2226,

      "end": 2271,

      "name": "SWAP3",

      "source": 0

    },

    {

      "begin": 2226,

      "end": 2271,
```

      "name": "POP",

      "source": 0

  },

  {

      "begin": 2226,

      "end": 2271,

      "name": "POP",

      "source": 0

  },

  {

      "begin": 2226,

      "end": 2271,

      "name": "DUP2",

      "source": 0

  },

  {

      "begin": 2226,

      "end": 2271,

      "name": "SWAP1",

      "source": 0

  },

  {

      "begin": 2226,

      "end": 2271,

      "name": "SSTORE",

      "source": 0

        },
        {
            "begin": 2226,
            "end": 2271,
            "name": "POP",
            "source": 0
        },
        {
            "begin": 2320,
            "end": 2326,
            "name": "DUP1",
            "source": 0
        },
        {
            "begin": 2281,
            "end": 2288,
            "name": "PUSH",
            "source": 0,
            "value": "0"
        },
        {
            "begin": 2281,
            "end": 2301,
            "name": "DUP1",
            "source": 0
        },

```json
    {
        "begin": 2289,
        "end": 2300,
        "name": "DUP5",
        "source": 0
    },
    {
        "begin": 2281,
        "end": 2301,
        "name": "PUSH",
        "source": 0,
        "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"
    },
    {
        "begin": 2281,
        "end": 2301,
        "name": "AND",
        "source": 0
    },
    {
        "begin": 2281,
        "end": 2301,
        "name": "PUSH",
        "source": 0,
        "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"
    },
```

```json
  {
    "begin": 2281,
    "end": 2301,
    "name": "AND",
    "source": 0
  },
  {
    "begin": 2281,
    "end": 2301,
    "name": "DUP2",
    "source": 0
  },
  {
    "begin": 2281,
    "end": 2301,
    "name": "MSTORE",
    "source": 0
  },
  {
    "begin": 2281,
    "end": 2301,
    "name": "PUSH",
    "source": 0,
    "value": "20"
  },
  {
```

      "begin": 2281,

      "end": 2301,

      "name": "ADD",

      "source": 0

  },

  {

      "begin": 2281,

      "end": 2301,

      "name": "SWAP1",

      "source": 0

  },

  {

      "begin": 2281,

      "end": 2301,

      "name": "DUP2",

      "source": 0

  },

  {

      "begin": 2281,

      "end": 2301,

      "name": "MSTORE",

      "source": 0

  },

  {

      "begin": 2281,

      "end": 2301,

```json
      "name": "PUSH",

      "source": 0,

      "value": "20"

    },

    {

      "begin": 2281,

      "end": 2301,

      "name": "ADD",

      "source": 0

    },

    {

      "begin": 2281,

      "end": 2301,

      "name": "PUSH",

      "source": 0,

      "value": "0"

    },

    {

      "begin": 2281,

      "end": 2301,

      "name": "KECCAK256",

      "source": 0

    },

    {

      "begin": 2281,

      "end": 2316,
```

```
      "name": "PUSH",

      "source": 0,

      "value": "1"

   },

   {

      "begin": 2281,

      "end": 2316,

      "name": "ADD",

      "source": 0

   },

   {

      "begin": 2281,

      "end": 2316,

      "name": "PUSH",

      "source": 0,

      "value": "0"

   },

   {

      "begin": 2281,

      "end": 2326,

      "name": "DUP3",

      "source": 0

   },

   {

      "begin": 2281,

      "end": 2326,
```

```json
      "name": "DUP3",

      "source": 0

  },

  {

      "begin": 2281,

      "end": 2326,

      "name": "SLOAD",

      "source": 0

  },

  {

      "begin": 2281,

      "end": 2326,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "39"

  },

  {

      "begin": 2281,

      "end": 2326,

      "name": "SWAP2",

      "source": 0

  },

  {

      "begin": 2281,

      "end": 2326,

      "name": "SWAP1",
```

```json
            "source": 0
        },
        {
            "begin": 2281,
            "end": 2326,
            "name": "PUSH [tag]",
            "source": 0,
            "value": "40"
        },
        {
            "begin": 2281,
            "end": 2326,
            "jumpType": "[in]",
            "name": "JUMP",
            "source": 0
        },
        {
            "begin": 2281,
            "end": 2326,
            "name": "tag",
            "source": 0,
            "value": "39"
        },
        {
            "begin": 2281,
            "end": 2326,
```

      "name": "JUMPDEST",

      "source": 0

  },

  {

      "begin": 2281,

      "end": 2326,

      "name": "SWAP3",

      "source": 0

  },

  {

      "begin": 2281,

      "end": 2326,

      "name": "POP",

      "source": 0

  },

  {

      "begin": 2281,

      "end": 2326,

      "name": "POP",

      "source": 0

  },

  {

      "begin": 2281,

      "end": 2326,

      "name": "DUP2",

      "source": 0

        },

        {

            "begin": 2281,

            "end": 2326,

            "name": "SWAP1",

            "source": 0

        },

        {

            "begin": 2281,

            "end": 2326,

            "name": "SSTORE",

            "source": 0

        },

        {

            "begin": 2281,

            "end": 2326,

            "name": "POP",

            "source": 0

        },

        {

            "begin": 2368,

            "end": 2380,

            "name": "PUSH",

            "source": 0,

            "value": "1"

        },

```json
{
    "begin": 2386,
    "end": 2426,
    "name": "PUSH",
    "source": 0,
    "value": "40"
},
{
    "begin": 2386,
    "end": 2426,
    "name": "MLOAD",
    "source": 0
},
{
    "begin": 2386,
    "end": 2426,
    "name": "DUP1",
    "source": 0
},
{
    "begin": 2386,
    "end": 2426,
    "name": "PUSH",
    "source": 0,
    "value": "60"
},
```

```json
  {
    "begin": 2386,
    "end": 2426,
    "name": "ADD",
    "source": 0
  },
  {
    "begin": 2386,
    "end": 2426,
    "name": "PUSH",
    "source": 0,
    "value": "40"
  },
  {
    "begin": 2386,
    "end": 2426,
    "name": "MSTORE",
    "source": 0
  },
  {
    "begin": 2386,
    "end": 2426,
    "name": "DUP1",
    "source": 0
  },
  {
```

      "begin": 2398,

      "end": 2409,

      "name": "DUP5",

      "source": 0

  },

  {

      "begin": 2386,

      "end": 2426,

      "name": "PUSH",

      "source": 0,

      "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

  },

  {

      "begin": 2386,

      "end": 2426,

      "name": "AND",

      "source": 0

  },

  {

      "begin": 2386,

      "end": 2426,

      "name": "DUP2",

      "source": 0

  },

  {

      "begin": 2386,

```
      "end": 2426,

      "name": "MSTORE",

      "source": 0

  },

  {

      "begin": 2386,

      "end": 2426,

      "name": "PUSH",

      "source": 0,

      "value": "20"

  },

  {

      "begin": 2386,

      "end": 2426,

      "name": "ADD",

      "source": 0

  },

  {

      "begin": 2411,

      "end": 2417,

      "name": "DUP4",

      "source": 0

  },

  {

      "begin": 2386,

      "end": 2426,
```

      "name": "DUP2",

      "source": 0

   },

   {

      "begin": 2386,

      "end": 2426,

      "name": "MSTORE",

      "source": 0

   },

   {

      "begin": 2386,

      "end": 2426,

      "name": "PUSH",

      "source": 0,

      "value": "20"

   },

   {

      "begin": 2386,

      "end": 2426,

      "name": "ADD",

      "source": 0

   },

   {

      "begin": 2419,

      "end": 2425,

      "name": "DUP4",

```json
      "source": 0
    },
    {
      "begin": 2386,
      "end": 2426,
      "name": "DUP2",
      "source": 0
    },
    {
      "begin": 2386,
      "end": 2426,
      "name": "MSTORE",
      "source": 0
    },
    {
      "begin": 2386,
      "end": 2426,
      "name": "POP",
      "source": 0
    },
    {
      "begin": 2368,
      "end": 2427,
      "name": "SWAP1",
      "source": 0
    },
```

```json
{
    "begin": 2368,
    "end": 2427,
    "name": "DUP1",
    "source": 0
},
{
    "begin": 2368,
    "end": 2427,
    "name": "PUSH",
    "source": 0,
    "value": "1"
},
{
    "begin": 2368,
    "end": 2427,
    "name": "DUP2",
    "source": 0
},
{
    "begin": 2368,
    "end": 2427,
    "name": "SLOAD",
    "source": 0
},
{
```

      "begin": 2368,

      "end": 2427,

      "name": "ADD",

      "source": 0

  },

  {

      "begin": 2368,

      "end": 2427,

      "name": "DUP1",

      "source": 0

  },

  {

      "begin": 2368,

      "end": 2427,

      "name": "DUP3",

      "source": 0

  },

  {

      "begin": 2368,

      "end": 2427,

      "name": "SSTORE",

      "source": 0

  },

  {

      "begin": 2368,

      "end": 2427,

        "name": "DUP1",

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "SWAP2",

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "POP",

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "POP",

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "PUSH",

        "source": 0,

```json
      "value": "1"
    },
    {
      "begin": 2368,
      "end": 2427,
      "name": "SWAP1",
      "source": 0
    },
    {
      "begin": 2368,
      "end": 2427,
      "name": "SUB",
      "source": 0
    },
    {
      "begin": 2368,
      "end": 2427,
      "name": "SWAP1",
      "source": 0
    },
    {
      "begin": 2368,
      "end": 2427,
      "name": "PUSH",
      "source": 0,
      "value": "0"
```

        },

        {

            "begin": 2368,

            "end": 2427,

            "name": "MSTORE",

            "source": 0

        },

        {

            "begin": 2368,

            "end": 2427,

            "name": "PUSH",

            "source": 0,

            "value": "20"

        },

        {

            "begin": 2368,

            "end": 2427,

            "name": "PUSH",

            "source": 0,

            "value": "0"

        },

        {

            "begin": 2368,

            "end": 2427,

            "name": "KECCAK256",

            "source": 0

    },
    {
        "begin": 2368,
        "end": 2427,
        "name": "SWAP1",
        "source": 0
    },
    {
        "begin": 2368,
        "end": 2427,
        "name": "PUSH",
        "source": 0,
        "value": "3"
    },
    {
        "begin": 2368,
        "end": 2427,
        "name": "MUL",
        "source": 0
    },
    {
        "begin": 2368,
        "end": 2427,
        "name": "ADD",
        "source": 0
    },

```json
  {
    "begin": 2368,
    "end": 2427,
    "name": "PUSH",
    "source": 0,
    "value": "0"
  },
  {
    "begin": 2368,
    "end": 2427,
    "name": "SWAP1",
    "source": 0
  },
  {
    "begin": 2368,
    "end": 2427,
    "name": "SWAP2",
    "source": 0
  },
  {
    "begin": 2368,
    "end": 2427,
    "name": "SWAP1",
    "source": 0
  },
  {
```

```
            "begin": 2368,

            "end": 2427,

            "name": "SWAP2",

            "source": 0

    },

    {

            "begin": 2368,

            "end": 2427,

            "name": "SWAP1",

            "source": 0

    },

    {

            "begin": 2368,

            "end": 2427,

            "name": "SWAP2",

            "source": 0

    },

    {

            "begin": 2368,

            "end": 2427,

            "name": "POP",

            "source": 0

    },

    {

            "begin": 2368,

            "end": 2427,
```

```json
        "name": "PUSH",

        "source": 0,

        "value": "0"

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "DUP3",

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "ADD",

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "MLOAD",

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "DUP2",
```

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "PUSH",

        "source": 0,

        "value": "0"

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "ADD",

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "PUSH",

        "source": 0,

        "value": "0"

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "PUSH",

```json
        "source": 0,
        "value": "100"
    },
    {
        "begin": 2368,
        "end": 2427,
        "name": "EXP",
        "source": 0
    },
    {
        "begin": 2368,
        "end": 2427,
        "name": "DUP2",
        "source": 0
    },
    {
        "begin": 2368,
        "end": 2427,
        "name": "SLOAD",
        "source": 0
    },
    {
        "begin": 2368,
        "end": 2427,
        "name": "DUP2",
        "source": 0
```

        },
        {
            "begin": 2368,

            "end": 2427,

            "name": "PUSH",

            "source": 0,

            "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"
        },
        {
            "begin": 2368,

            "end": 2427,

            "name": "MUL",

            "source": 0
        },
        {
            "begin": 2368,

            "end": 2427,

            "name": "NOT",

            "source": 0
        },
        {
            "begin": 2368,

            "end": 2427,

            "name": "AND",

            "source": 0
        },

```json
  {
    "begin": 2368,
    "end": 2427,
    "name": "SWAP1",
    "source": 0
  },
  {
    "begin": 2368,
    "end": 2427,
    "name": "DUP4",
    "source": 0
  },
  {
    "begin": 2368,
    "end": 2427,
    "name": "PUSH",
    "source": 0,
    "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"
  },
  {
    "begin": 2368,
    "end": 2427,
    "name": "AND",
    "source": 0
  },
  {
```

          "begin": 2368,

          "end": 2427,

          "name": "MUL",

          "source": 0

     },

     {

          "begin": 2368,

          "end": 2427,

          "name": "OR",

          "source": 0

     },

     {

          "begin": 2368,

          "end": 2427,

          "name": "SWAP1",

          "source": 0

     },

     {

          "begin": 2368,

          "end": 2427,

          "name": "SSTORE",

          "source": 0

     },

     {

          "begin": 2368,

          "end": 2427,

        "name": "POP",

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "PUSH",

        "source": 0,

        "value": "20"

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "DUP3",

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "ADD",

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "MLOAD",

```json
            "source": 0
        },
        {
            "begin": 2368,
            "end": 2427,
            "name": "DUP2",
            "source": 0
        },
        {
            "begin": 2368,
            "end": 2427,
            "name": "PUSH",
            "source": 0,
            "value": "1"
        },
        {
            "begin": 2368,
            "end": 2427,
            "name": "ADD",
            "source": 0
        },
        {
            "begin": 2368,
            "end": 2427,
            "name": "SSTORE",
            "source": 0
```

        },

        {

            "begin": 2368,

            "end": 2427,

            "name": "PUSH",

            "source": 0,

            "value": "40"

        },

        {

            "begin": 2368,

            "end": 2427,

            "name": "DUP3",

            "source": 0

        },

        {

            "begin": 2368,

            "end": 2427,

            "name": "ADD",

            "source": 0

        },

        {

            "begin": 2368,

            "end": 2427,

            "name": "MLOAD",

            "source": 0

        },

```json
    {
        "begin": 2368,
        "end": 2427,
        "name": "DUP2",
        "source": 0
    },
    {
        "begin": 2368,
        "end": 2427,
        "name": "PUSH",
        "source": 0,
        "value": "2"
    },
    {
        "begin": 2368,
        "end": 2427,
        "name": "ADD",
        "source": 0
    },
    {
        "begin": 2368,
        "end": 2427,
        "name": "SSTORE",
        "source": 0
    },
    {
```

```
        "begin": 2368,

        "end": 2427,

        "name": "POP",

        "source": 0

    },

    {

        "begin": 2368,

        "end": 2427,

        "name": "POP",

        "source": 0

    },

    {

        "begin": 2460,

        "end": 2471,

        "name": "DUP2",

        "source": 0

    },

    {

        "begin": 2442,

        "end": 2488,

        "name": "PUSH",

        "source": 0,

        "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

    },

    {

        "begin": 2442,
```

                "end": 2488,

                "name": "AND",

                "source": 0

            },

            {

                "begin": 2442,

                "end": 2488,

                "name": "PUSH",

                "source": 0,

                                                "value":

"7772D368CD3CC6FA8DC9C0956D36DD1243D603ABC8D99496F89D0E6950D80DDE"

            },

            {

                "begin": 2473,

                "end": 2479,

                "name": "DUP3",

                "source": 0

            },

            {

                "begin": 2481,

                "end": 2487,

                "name": "DUP4",

                "source": 0

            },

            {

                "begin": 2442,

        "end": 2488,

        "name": "PUSH",

        "source": 0,

        "value": "40"

    },

    {

        "begin": 2442,

        "end": 2488,

        "name": "MLOAD",

        "source": 0

    },

    {

        "begin": 2442,

        "end": 2488,

        "name": "PUSH [tag]",

        "source": 0,

        "value": "42"

    },

    {

        "begin": 2442,

        "end": 2488,

        "name": "SWAP3",

        "source": 0

    },

    {

        "begin": 2442,

```json
      "end": 2488,

      "name": "SWAP2",

      "source": 0
    },

    {

      "begin": 2442,

      "end": 2488,

      "name": "SWAP1",

      "source": 0
    },

    {

      "begin": 2442,

      "end": 2488,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "23"
    },

    {

      "begin": 2442,

      "end": 2488,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 0
    },

    {

      "begin": 2442,
```

      "end": 2488,

      "name": "tag",

      "source": 0,

      "value": "42"

  },

  {

      "begin": 2442,

      "end": 2488,

      "name": "JUMPDEST",

      "source": 0

  },

  {

      "begin": 2442,

      "end": 2488,

      "name": "PUSH",

      "source": 0,

      "value": "40"

  },

  {

      "begin": 2442,

      "end": 2488,

      "name": "MLOAD",

      "source": 0

  },

  {

      "begin": 2442,

```
      "end": 2488,

      "name": "DUP1",

      "source": 0

  },

  {

      "begin": 2442,

      "end": 2488,

      "name": "SWAP2",

      "source": 0

  },

  {

      "begin": 2442,

      "end": 2488,

      "name": "SUB",

      "source": 0

  },

  {

      "begin": 2442,

      "end": 2488,

      "name": "SWAP1",

      "source": 0

  },

  {

      "begin": 2442,

      "end": 2488,

      "name": "LOG2",
```

      "source": 0

    },

    {

      "begin": 2547,

      "end": 2558,

      "name": "DUP2",

      "source": 0

    },

    {

      "begin": 2533,

      "end": 2633,

      "name": "PUSH",

      "source": 0,

      "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

    },

    {

      "begin": 2533,

      "end": 2633,

      "name": "AND",

      "source": 0

    },

    {

      "begin": 2533,

      "end": 2633,

      "name": "PUSH",

      "source": 0,

                                                                "value":

"E3E2E5B15DBD2776222DEAB4CBD7FB2AEEECFD735EED24E9809B2352F3FA2D37"

                },
                {
                    "begin": 2560,
                    "end": 2567,
                    "name": "PUSH",
                    "source": 0,
                    "value": "0"
                },
                {
                    "begin": 2560,
                    "end": 2580,
                    "name": "DUP1",
                    "source": 0
                },
                {
                    "begin": 2568,
                    "end": 2579,
                    "name": "DUP6",
                    "source": 0
                },
                {
                    "begin": 2560,
                    "end": 2580,
                    "name": "PUSH",

            "source": 0,

            "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

        },

        {

            "begin": 2560,

            "end": 2580,

            "name": "AND",

            "source": 0

        },

        {

            "begin": 2560,

            "end": 2580,

            "name": "PUSH",

            "source": 0,

            "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

        },

        {

            "begin": 2560,

            "end": 2580,

            "name": "AND",

            "source": 0

        },

        {

            "begin": 2560,

            "end": 2580,

            "name": "DUP2",

```json
      "source": 0
    },
    {
      "begin": 2560,
      "end": 2580,
      "name": "MSTORE",
      "source": 0
    },
    {
      "begin": 2560,
      "end": 2580,
      "name": "PUSH",
      "source": 0,
      "value": "20"
    },
    {
      "begin": 2560,
      "end": 2580,
      "name": "ADD",
      "source": 0
    },
    {
      "begin": 2560,
      "end": 2580,
      "name": "SWAP1",
      "source": 0
```

```
    },
    {
        "begin": 2560,
        "end": 2580,
        "name": "DUP2",
        "source": 0
    },
    {
        "begin": 2560,
        "end": 2580,
        "name": "MSTORE",
        "source": 0
    },
    {
        "begin": 2560,
        "end": 2580,
        "name": "PUSH",
        "source": 0,
        "value": "20"
    },
    {
        "begin": 2560,
        "end": 2580,
        "name": "ADD",
        "source": 0
    },
```

```json
    {
        "begin": 2560,
        "end": 2580,
        "name": "PUSH",
        "source": 0,
        "value": "0"
    },
    {
        "begin": 2560,
        "end": 2580,
        "name": "KECCAK256",
        "source": 0
    },
    {
        "begin": 2560,
        "end": 2595,
        "name": "PUSH",
        "source": 0,
        "value": "0"
    },
    {
        "begin": 2560,
        "end": 2595,
        "name": "ADD",
        "source": 0
    },
```

```json
  {
    "begin": 2560,
    "end": 2595,
    "name": "SLOAD",
    "source": 0
  },
  {
    "begin": 2597,
    "end": 2604,
    "name": "PUSH",
    "source": 0,
    "value": "0"
  },
  {
    "begin": 2597,
    "end": 2617,
    "name": "DUP1",
    "source": 0
  },
  {
    "begin": 2605,
    "end": 2616,
    "name": "DUP7",
    "source": 0
  },
  {
```

      "begin": 2597,

      "end": 2617,

      "name": "PUSH",

      "source": 0,

      "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

    },

    {

      "begin": 2597,

      "end": 2617,

      "name": "AND",

      "source": 0

    },

    {

      "begin": 2597,

      "end": 2617,

      "name": "PUSH",

      "source": 0,

      "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

    },

    {

      "begin": 2597,

      "end": 2617,

      "name": "AND",

      "source": 0

    },

    {

```json
      "begin": 2597,

      "end": 2617,

      "name": "DUP2",

      "source": 0

    },

    {

      "begin": 2597,

      "end": 2617,

      "name": "MSTORE",

      "source": 0

    },

    {

      "begin": 2597,

      "end": 2617,

      "name": "PUSH",

      "source": 0,

      "value": "20"

    },

    {

      "begin": 2597,

      "end": 2617,

      "name": "ADD",

      "source": 0

    },

    {

      "begin": 2597,
```

      "end": 2617,

      "name": "SWAP1",

      "source": 0

    },

    {

      "begin": 2597,

      "end": 2617,

      "name": "DUP2",

      "source": 0

    },

    {

      "begin": 2597,

      "end": 2617,

      "name": "MSTORE",

      "source": 0

    },

    {

      "begin": 2597,

      "end": 2617,

      "name": "PUSH",

      "source": 0,

      "value": "20"

    },

    {

      "begin": 2597,

      "end": 2617,

```
            "name": "ADD",

            "source": 0

        },

        {

            "begin": 2597,

            "end": 2617,

            "name": "PUSH",

            "source": 0,

            "value": "0"

        },

        {

            "begin": 2597,

            "end": 2617,

            "name": "KECCAK256",

            "source": 0

        },

        {

            "begin": 2597,

            "end": 2632,

            "name": "PUSH",

            "source": 0,

            "value": "1"

        },

        {

            "begin": 2597,

            "end": 2632,
```

        "name": "ADD",

        "source": 0

    },

    {

        "begin": 2597,

        "end": 2632,

        "name": "SLOAD",

        "source": 0

    },

    {

        "begin": 2533,

        "end": 2633,

        "name": "PUSH",

        "source": 0,

        "value": "40"

    },

    {

        "begin": 2533,

        "end": 2633,

        "name": "MLOAD",

        "source": 0

    },

    {

        "begin": 2533,

        "end": 2633,

        "name": "PUSH [tag]",

```json
      "source": 0,

      "value": "43"

    },

    {

      "begin": 2533,

      "end": 2633,

      "name": "SWAP3",

      "source": 0

    },

    {

      "begin": 2533,

      "end": 2633,

      "name": "SWAP2",

      "source": 0

    },

    {

      "begin": 2533,

      "end": 2633,

      "name": "SWAP1",

      "source": 0

    },

    {

      "begin": 2533,

      "end": 2633,

      "name": "PUSH [tag]",

      "source": 0,
```

```
            "value": "23"
        },
        {
            "begin": 2533,
            "end": 2633,
            "jumpType": "[in]",
            "name": "JUMP",
            "source": 0
        },
        {
            "begin": 2533,
            "end": 2633,
            "name": "tag",
            "source": 0,
            "value": "43"
        },
        {
            "begin": 2533,
            "end": 2633,
            "name": "JUMPDEST",
            "source": 0
        },
        {
            "begin": 2533,
            "end": 2633,
            "name": "PUSH",
```

```json
      "source": 0,

      "value": "40"

    },

    {

      "begin": 2533,

      "end": 2633,

      "name": "MLOAD",

      "source": 0

    },

    {

      "begin": 2533,

      "end": 2633,

      "name": "DUP1",

      "source": 0

    },

    {

      "begin": 2533,

      "end": 2633,

      "name": "SWAP2",

      "source": 0

    },

    {

      "begin": 2533,

      "end": 2633,

      "name": "SUB",

      "source": 0
```

```json
    },
    {
        "begin": 2533,
        "end": 2633,
        "name": "SWAP1",
        "source": 0
    },
    {
        "begin": 2533,
        "end": 2633,
        "name": "LOG2",
        "source": 0
    },
    {
        "begin": 1992,
        "end": 2640,
        "name": "POP",
        "source": 0
    },
    {
        "begin": 1992,
        "end": 2640,
        "name": "POP",
        "source": 0
    },
    {
```

```json
      "begin": 1992,

      "end": 2640,

      "jumpType": "[out]",

      "name": "JUMP",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "tag",

      "source": 0,

      "value": "15"

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "JUMPDEST",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "PUSH",

      "source": 0,

      "value": "1"

    },
```

```json
  {
    "begin": 1082,
    "end": 1115,
    "name": "DUP2",
    "source": 0
  },
  {
    "begin": 1082,
    "end": 1115,
    "name": "DUP2",
    "source": 0
  },
  {
    "begin": 1082,
    "end": 1115,
    "name": "SLOAD",
    "source": 0
  },
  {
    "begin": 1082,
    "end": 1115,
    "name": "DUP2",
    "source": 0
  },
  {
    "begin": 1082,
```

```json
      "end": 1115,

      "name": "LT",

      "source": 0
    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "PUSH [tag]",

      "source": 0,

      "value": "44"
    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "JUMPI",

      "source": 0
    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "PUSH",

      "source": 0,

      "value": "0"
    },

    {

      "begin": 1082,
```

      "end": 1115,

      "name": "DUP1",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "REVERT",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "tag",

      "source": 0,

      "value": "44"

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "JUMPDEST",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "SWAP1",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "PUSH",

      "source": 0,

      "value": "0"

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "MSTORE",

      "source": 0

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "PUSH",

      "source": 0,

      "value": "20"

    },

    {

      "begin": 1082,

      "end": 1115,

      "name": "PUSH",

      "source": 0,

      "value": "0"

  },

  {

      "begin": 1082,

      "end": 1115,

      "name": "KECCAK256",

      "source": 0

  },

  {

      "begin": 1082,

      "end": 1115,

      "name": "SWAP1",

      "source": 0

  },

  {

      "begin": 1082,

      "end": 1115,

      "name": "PUSH",

      "source": 0,

      "value": "3"

  },

  {

      "begin": 1082,

      "end": 1115,

```json
      "name": "MUL",

      "source": 0

   },

   {

      "begin": 1082,

      "end": 1115,

      "name": "ADD",

      "source": 0

   },

   {

      "begin": 1082,

      "end": 1115,

      "name": "PUSH",

      "source": 0,

      "value": "0"

   },

   {

      "begin": 1082,

      "end": 1115,

      "name": "SWAP2",

      "source": 0

   },

   {

      "begin": 1082,

      "end": 1115,

      "name": "POP",
```

```json
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "SWAP1",
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "POP",
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "DUP1",
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "PUSH",
      "source": 0,
      "value": "0"
    }
```

```json
    },
    {
        "begin": 1082,
        "end": 1115,
        "name": "ADD",
        "source": 0
    },
    {
        "begin": 1082,
        "end": 1115,
        "name": "PUSH",
        "source": 0,
        "value": "0"
    },
    {
        "begin": 1082,
        "end": 1115,
        "name": "SWAP1",
        "source": 0
    },
    {
        "begin": 1082,
        "end": 1115,
        "name": "SLOAD",
        "source": 0
    },
```

```json
  {
    "begin": 1082,
    "end": 1115,
    "name": "SWAP1",
    "source": 0
  },
  {
    "begin": 1082,
    "end": 1115,
    "name": "PUSH",
    "source": 0,
    "value": "100"
  },
  {
    "begin": 1082,
    "end": 1115,
    "name": "EXP",
    "source": 0
  },
  {
    "begin": 1082,
    "end": 1115,
    "name": "SWAP1",
    "source": 0
  },
  {
```

          "begin": 1082,

          "end": 1115,

          "name": "DIV",

          "source": 0

      },

      {

          "begin": 1082,

          "end": 1115,

          "name": "PUSH",

          "source": 0,

          "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

      },

      {

          "begin": 1082,

          "end": 1115,

          "name": "AND",

          "source": 0

      },

      {

          "begin": 1082,

          "end": 1115,

          "name": "SWAP1",

          "source": 0

      },

      {

          "begin": 1082,

      "end": 1115,

      "name": "DUP1",

      "source": 0

   },

   {

      "begin": 1082,

      "end": 1115,

      "name": "PUSH",

      "source": 0,

      "value": "1"

   },

   {

      "begin": 1082,

      "end": 1115,

      "name": "ADD",

      "source": 0

   },

   {

      "begin": 1082,

      "end": 1115,

      "name": "SLOAD",

      "source": 0

   },

   {

      "begin": 1082,

      "end": 1115,

```json
    "name": "SWAP1",

    "source": 0

},

{

    "begin": 1082,

    "end": 1115,

    "name": "DUP1",

    "source": 0

},

{

    "begin": 1082,

    "end": 1115,

    "name": "PUSH",

    "source": 0,

    "value": "2"

},

{

    "begin": 1082,

    "end": 1115,

    "name": "ADD",

    "source": 0

},

{

    "begin": 1082,

    "end": 1115,

    "name": "SLOAD",
```

```json
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "SWAP1",
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "POP",
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "name": "DUP4",
      "source": 0
    },
    {
      "begin": 1082,
      "end": 1115,
      "jumpType": "[out]",
      "name": "JUMP",
      "source": 0
    }
```

```json
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "tag",
        "source": 0,
        "value": "21"
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "JUMPDEST",
        "source": 0
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "PUSH",
        "source": 0,
        "value": "0"
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "PUSH",
        "source": 0,
```

```
      "value": "20"
    },
    {
      "begin": 982,
      "end": 1023,
      "name": "MSTORE",
      "source": 0
    },
    {
      "begin": 982,
      "end": 1023,
      "name": "DUP1",
      "source": 0
    },
    {
      "begin": 982,
      "end": 1023,
      "name": "PUSH",
      "source": 0,
      "value": "0"
    },
    {
      "begin": 982,
      "end": 1023,
      "name": "MSTORE",
      "source": 0
```

```
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "PUSH",
        "source": 0,
        "value": "40"
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "PUSH",
        "source": 0,
        "value": "0"
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "KECCAK256",
        "source": 0
    },
    {
        "begin": 982,
        "end": 1023,
        "name": "PUSH",
        "source": 0,
```

```
      "value": "0"
    },
    {
      "begin": 982,
      "end": 1023,
      "name": "SWAP2",
      "source": 0
    },
    {
      "begin": 982,
      "end": 1023,
      "name": "POP",
      "source": 0
    },
    {
      "begin": 982,
      "end": 1023,
      "name": "SWAP1",
      "source": 0
    },
    {
      "begin": 982,
      "end": 1023,
      "name": "POP",
      "source": 0
    },
```

```json
  {
    "begin": 982,
    "end": 1023,
    "name": "DUP1",
    "source": 0
  },
  {
    "begin": 982,
    "end": 1023,
    "name": "PUSH",
    "source": 0,
    "value": "0"
  },
  {
    "begin": 982,
    "end": 1023,
    "name": "ADD",
    "source": 0
  },
  {
    "begin": 982,
    "end": 1023,
    "name": "SLOAD",
    "source": 0
  },
  {
```

      "begin": 982,

      "end": 1023,

      "name": "SWAP1",

      "source": 0

  },

  {

      "begin": 982,

      "end": 1023,

      "name": "DUP1",

      "source": 0

  },

  {

      "begin": 982,

      "end": 1023,

      "name": "PUSH",

      "source": 0,

      "value": "1"

  },

  {

      "begin": 982,

      "end": 1023,

      "name": "ADD",

      "source": 0

  },

  {

      "begin": 982,

          "end": 1023,

          "name": "SLOAD",

          "source": 0

      },

      {

          "begin": 982,

          "end": 1023,

          "name": "SWAP1",

          "source": 0

      },

      {

          "begin": 982,

          "end": 1023,

          "name": "POP",

          "source": 0

      },

      {

          "begin": 982,

          "end": 1023,

          "name": "DUP3",

          "source": 0

      },

      {

          "begin": 982,

          "end": 1023,

          "jumpType": "[out]",

      "name": "JUMP",

      "source": 0

  },

  {

      "begin": 3116,

      "end": 3221,

      "name": "tag",

      "source": 0,

      "value": "25"

  },

  {

      "begin": 3116,

      "end": 3221,

      "name": "JUMPDEST",

      "source": 0

  },

  {

      "begin": 3169,

      "end": 3176,

      "name": "PUSH",

      "source": 0,

      "value": "0"

  },

  {

      "begin": 3195,

      "end": 3207,

```json
            "name": "PUSH",

            "source": 0,

            "value": "1"

        },

        {

            "begin": 3195,

            "end": 3214,

            "name": "DUP1",

            "source": 0

        },

        {

            "begin": 3195,

            "end": 3214,

            "name": "SLOAD",

            "source": 0

        },

        {

            "begin": 3195,

            "end": 3214,

            "name": "SWAP1",

            "source": 0

        },

        {

            "begin": 3195,

            "end": 3214,

            "name": "POP",
```

```json
      "source": 0
    },
    {
      "begin": 3188,
      "end": 3214,
      "name": "SWAP1",
      "source": 0
    },
    {
      "begin": 3188,
      "end": 3214,
      "name": "POP",
      "source": 0
    },
    {
      "begin": 3116,
      "end": 3221,
      "name": "SWAP1",
      "source": 0
    },
    {
      "begin": 3116,
      "end": 3221,
      "jumpType": "[out]",
      "name": "JUMP",
      "source": 0
    }
```

```json
        },
        {
            "begin": 2845,
            "end": 2965,
            "name": "tag",
            "source": 0,
            "value": "30"
        },
        {
            "begin": 2845,
            "end": 2965,
            "name": "JUMPDEST",
            "source": 0
        },
        {
            "begin": 2906,
            "end": 2919,
            "name": "PUSH [tag]",
            "source": 0,
            "value": "47"
        },
        {
            "begin": 2906,
            "end": 2919,
            "name": "PUSH [tag]",
            "source": 0,
```

```json
      "value": "48"
    },
    {
      "begin": 2906,
      "end": 2919,
      "jumpType": "[in]",
      "name": "JUMP",
      "source": 0
    },
    {
      "begin": 2906,
      "end": 2919,
      "name": "tag",
      "source": 0,
      "value": "47"
    },
    {
      "begin": 2906,
      "end": 2919,
      "name": "JUMPDEST",
      "source": 0
    },
    {
      "begin": 2938,
      "end": 2945,
      "name": "PUSH",
```

            "source": 0,

            "value": "0"

        },

        {

            "begin": 2938,

            "end": 2958,

            "name": "DUP1",

            "source": 0

        },

        {

            "begin": 2946,

            "end": 2957,

            "name": "DUP4",

            "source": 0

        },

        {

            "begin": 2938,

            "end": 2958,

            "name": "PUSH",

            "source": 0,

            "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

        },

        {

            "begin": 2938,

            "end": 2958,

            "name": "AND",

      "source": 0
    },
    {
      "begin": 2938,
      "end": 2958,
      "name": "PUSH",
      "source": 0,
      "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"
    },
    {
      "begin": 2938,
      "end": 2958,
      "name": "AND",
      "source": 0
    },
    {
      "begin": 2938,
      "end": 2958,
      "name": "DUP2",
      "source": 0
    },
    {
      "begin": 2938,
      "end": 2958,
      "name": "MSTORE",
      "source": 0

        },
        {
            "begin": 2938,
            "end": 2958,
            "name": "PUSH",
            "source": 0,
            "value": "20"
        },
        {
            "begin": 2938,
            "end": 2958,
            "name": "ADD",
            "source": 0
        },
        {
            "begin": 2938,
            "end": 2958,
            "name": "SWAP1",
            "source": 0
        },
        {
            "begin": 2938,
            "end": 2958,
            "name": "DUP2",
            "source": 0
        },

```json
    {
        "begin": 2938,
        "end": 2958,
        "name": "MSTORE",
        "source": 0
    },
    {
        "begin": 2938,
        "end": 2958,
        "name": "PUSH",
        "source": 0,
        "value": "20"
    },
    {
        "begin": 2938,
        "end": 2958,
        "name": "ADD",
        "source": 0
    },
    {
        "begin": 2938,
        "end": 2958,
        "name": "PUSH",
        "source": 0,
        "value": "0"
    },
```

```json
{
    "begin": 2938,
    "end": 2958,
    "name": "KECCAK256",
    "source": 0
},
{
    "begin": 2931,
    "end": 2958,
    "name": "PUSH",
    "source": 0,
    "value": "40"
},
{
    "begin": 2931,
    "end": 2958,
    "name": "MLOAD",
    "source": 0
},
{
    "begin": 2931,
    "end": 2958,
    "name": "DUP1",
    "source": 0
},
{
```

      "begin": 2931,

      "end": 2958,

      "name": "PUSH",

      "source": 0,

      "value": "40"

   },

   {

      "begin": 2931,

      "end": 2958,

      "name": "ADD",

      "source": 0

   },

   {

      "begin": 2931,

      "end": 2958,

      "name": "PUSH",

      "source": 0,

      "value": "40"

   },

   {

      "begin": 2931,

      "end": 2958,

      "name": "MSTORE",

      "source": 0

   },

   {

```json
      "begin": 2931,

      "end": 2958,

      "name": "SWAP1",

      "source": 0

    },

    {

      "begin": 2931,

      "end": 2958,

      "name": "DUP2",

      "source": 0

    },

    {

      "begin": 2931,

      "end": 2958,

      "name": "PUSH",

      "source": 0,

      "value": "0"

    },

    {

      "begin": 2931,

      "end": 2958,

      "name": "DUP3",

      "source": 0

    },

    {

      "begin": 2931,
```

      "end": 2958,

      "name": "ADD",

      "source": 0

  },

  {

      "begin": 2931,

      "end": 2958,

      "name": "SLOAD",

      "source": 0

  },

  {

      "begin": 2931,

      "end": 2958,

      "name": "DUP2",

      "source": 0

  },

  {

      "begin": 2931,

      "end": 2958,

      "name": "MSTORE",

      "source": 0

  },

  {

      "begin": 2931,

      "end": 2958,

      "name": "PUSH",

        "source": 0,

        "value": "20"

    },

    {

        "begin": 2931,

        "end": 2958,

        "name": "ADD",

        "source": 0

    },

    {

        "begin": 2931,

        "end": 2958,

        "name": "PUSH",

        "source": 0,

        "value": "1"

    },

    {

        "begin": 2931,

        "end": 2958,

        "name": "DUP3",

        "source": 0

    },

    {

        "begin": 2931,

        "end": 2958,

        "name": "ADD",

```json
      "source": 0
    },
    {
      "begin": 2931,
      "end": 2958,
      "name": "SLOAD",
      "source": 0
    },
    {
      "begin": 2931,
      "end": 2958,
      "name": "DUP2",
      "source": 0
    },
    {
      "begin": 2931,
      "end": 2958,
      "name": "MSTORE",
      "source": 0
    },
    {
      "begin": 2931,
      "end": 2958,
      "name": "POP",
      "source": 0
    },
```

```
{
    "begin": 2931,
    "end": 2958,
    "name": "POP",
    "source": 0
},
{
    "begin": 2931,
    "end": 2958,
    "name": "SWAP1",
    "source": 0
},
{
    "begin": 2931,
    "end": 2958,
    "name": "POP",
    "source": 0
},
{
    "begin": 2845,
    "end": 2965,
    "name": "SWAP2",
    "source": 0
},
{
    "begin": 2845,
```

      "end": 2965,

      "name": "SWAP1",

      "source": 0

  },

  {

      "begin": 2845,

      "end": 2965,

      "name": "POP",

      "source": 0

  },

  {

      "begin": 2845,

      "end": 2965,

      "jumpType": "[out]",

      "name": "JUMP",

      "source": 0

  },

  {

      "begin": -1,

      "end": -1,

      "name": "tag",

      "source": -1,

      "value": "48"

  },

  {

      "begin": -1,

```
            "end": -1,

            "name": "JUMPDEST",

            "source": -1

        },

        {

            "begin": -1,

            "end": -1,

            "name": "PUSH",

            "source": -1,

            "value": "40"

        },

        {

            "begin": -1,

            "end": -1,

            "name": "MLOAD",

            "source": -1

        },

        {

            "begin": -1,

            "end": -1,

            "name": "DUP1",

            "source": -1

        },

        {

            "begin": -1,

            "end": -1,
```

```json
      "name": "PUSH",

      "source": -1,

      "value": "40"

    },

    {

      "begin": -1,

      "end": -1,

      "name": "ADD",

      "source": -1

    },

    {

      "begin": -1,

      "end": -1,

      "name": "PUSH",

      "source": -1,

      "value": "40"

    },

    {

      "begin": -1,

      "end": -1,

      "name": "MSTORE",

      "source": -1

    },

    {

      "begin": -1,

      "end": -1,
```

      "name": "DUP1",

      "source": -1

    },

    {

      "begin": -1,

      "end": -1,

      "name": "PUSH",

      "source": -1,

      "value": "0"

    },

    {

      "begin": -1,

      "end": -1,

      "name": "DUP2",

      "source": -1

    },

    {

      "begin": -1,

      "end": -1,

      "name": "MSTORE",

      "source": -1

    },

    {

      "begin": -1,

      "end": -1,

      "name": "PUSH",

            "source": -1,

            "value": "20"

        },

        {

            "begin": -1,

            "end": -1,

            "name": "ADD",

            "source": -1

        },

        {

            "begin": -1,

            "end": -1,

            "name": "PUSH",

            "source": -1,

            "value": "0"

        },

        {

            "begin": -1,

            "end": -1,

            "name": "DUP2",

            "source": -1

        },

        {

            "begin": -1,

            "end": -1,

            "name": "MSTORE",

```json
      "source": -1
    },
    {
      "begin": -1,
      "end": -1,
      "name": "POP",
      "source": -1
    },
    {
      "begin": -1,
      "end": -1,
      "name": "SWAP1",
      "source": -1
    },
    {
      "begin": -1,
      "end": -1,
      "jumpType": "[out]",
      "name": "JUMP",
      "source": -1
    },
    {
      "begin": 88,
      "end": 205,
      "name": "tag",
      "source": 1,
```

```json
      "value": "51"
    },
    {
      "begin": 88,
      "end": 205,
      "name": "JUMPDEST",
      "source": 1
    },
    {
      "begin": 197,
      "end": 198,
      "name": "PUSH",
      "source": 1,
      "value": "0"
    },
    {
      "begin": 194,
      "end": 195,
      "name": "DUP1",
      "source": 1
    },
    {
      "begin": 187,
      "end": 199,
      "name": "REVERT",
      "source": 1
```

```json
    },
    {
      "begin": 334,
      "end": 460,
      "name": "tag",
      "source": 1,
      "value": "53"
    },
    {
      "begin": 334,
      "end": 460,
      "name": "JUMPDEST",
      "source": 1
    },
    {
      "begin": 371,
      "end": 378,
      "name": "PUSH",
      "source": 1,
      "value": "0"
    },
    {
      "begin": 411,
      "end": 453,
      "name": "PUSH",
      "source": 1,
```

      "value": "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"

    },

    {

      "begin": 404,

      "end": 409,

      "name": "DUP3",

      "source": 1

    },

    {

      "begin": 400,

      "end": 454,

      "name": "AND",

      "source": 1

    },

    {

      "begin": 389,

      "end": 454,

      "name": "SWAP1",

      "source": 1

    },

    {

      "begin": 389,

      "end": 454,

      "name": "POP",

      "source": 1

    },

```json
    {
        "begin": 334,
        "end": 460,
        "name": "SWAP2",
        "source": 1
    },
    {
        "begin": 334,
        "end": 460,
        "name": "SWAP1",
        "source": 1
    },
    {
        "begin": 334,
        "end": 460,
        "name": "POP",
        "source": 1
    },
    {
        "begin": 334,
        "end": 460,
        "jumpType": "[out]",
        "name": "JUMP",
        "source": 1
    },
    {
```

            "begin": 466,

            "end": 562,

            "name": "tag",

            "source": 1,

            "value": "54"

        },

        {

            "begin": 466,

            "end": 562,

            "name": "JUMPDEST",

            "source": 1

        },

        {

            "begin": 503,

            "end": 510,

            "name": "PUSH",

            "source": 1,

            "value": "0"

        },

        {

            "begin": 532,

            "end": 556,

            "name": "PUSH [tag]",

            "source": 1,

            "value": "74"

        },

```json
    {
        "begin": 550,
        "end": 555,
        "name": "DUP3",
        "source": 1
    },
    {
        "begin": 532,
        "end": 556,
        "name": "PUSH [tag]",
        "source": 1,
        "value": "53"
    },
    {
        "begin": 532,
        "end": 556,
        "jumpType": "[in]",
        "name": "JUMP",
        "source": 1
    },
    {
        "begin": 532,
        "end": 556,
        "name": "tag",
        "source": 1,
        "value": "74"
```

```json
    },
    {
        "begin": 532,
        "end": 556,
        "name": "JUMPDEST",
        "source": 1
    },
    {
        "begin": 521,
        "end": 556,
        "name": "SWAP1",
        "source": 1
    },
    {
        "begin": 521,
        "end": 556,
        "name": "POP",
        "source": 1
    },
    {
        "begin": 466,
        "end": 562,
        "name": "SWAP2",
        "source": 1
    },
    {
```

      "begin": 466,

      "end": 562,

      "name": "SWAP1",

      "source": 1

  },

  {

      "begin": 466,

      "end": 562,

      "name": "POP",

      "source": 1

  },

  {

      "begin": 466,

      "end": 562,

      "jumpType": "[out]",

      "name": "JUMP",

      "source": 1

  },

  {

      "begin": 568,

      "end": 690,

      "name": "tag",

      "source": 1,

      "value": "55"

  },

  {

```
        "begin": 568,

        "end": 690,

        "name": "JUMPDEST",

        "source": 1

    },

    {

        "begin": 641,

        "end": 665,

        "name": "PUSH [tag]",

        "source": 1,

        "value": "76"

    },

    {

        "begin": 659,

        "end": 664,

        "name": "DUP2",

        "source": 1

    },

    {

        "begin": 641,

        "end": 665,

        "name": "PUSH [tag]",

        "source": 1,

        "value": "54"

    },

    {
```

```
      "begin": 641,

      "end": 665,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 1

   },

   {

      "begin": 641,

      "end": 665,

      "name": "tag",

      "source": 1,

      "value": "76"

   },

   {

      "begin": 641,

      "end": 665,

      "name": "JUMPDEST",

      "source": 1

   },

   {

      "begin": 634,

      "end": 639,

      "name": "DUP2",

      "source": 1

   },

   {
```

      "begin": 631,

      "end": 666,

      "name": "EQ",

      "source": 1

    },

    {

      "begin": 621,

      "end": 684,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "77"

    },

    {

      "begin": 621,

      "end": 684,

      "name": "JUMPI",

      "source": 1

    },

    {

      "begin": 680,

      "end": 681,

      "name": "PUSH",

      "source": 1,

      "value": "0"

    },

    {

      "begin": 677,

      "end": 678,

      "name": "DUP1",

      "source": 1

  },

  {

      "begin": 670,

      "end": 682,

      "name": "REVERT",

      "source": 1

  },

  {

      "begin": 621,

      "end": 684,

      "name": "tag",

      "source": 1,

      "value": "77"

  },

  {

      "begin": 621,

      "end": 684,

      "name": "JUMPDEST",

      "source": 1

  },

  {

      "begin": 568,

            "end": 690,

            "name": "POP",

            "source": 1

        },

        {

            "begin": 568,

            "end": 690,

            "jumpType": "[out]",

            "name": "JUMP",

            "source": 1

        },

        {

            "begin": 696,

            "end": 835,

            "name": "tag",

            "source": 1,

            "value": "56"

        },

        {

            "begin": 696,

            "end": 835,

            "name": "JUMPDEST",

            "source": 1

        },

        {

            "begin": 742,

      "end": 747,

      "name": "PUSH",

      "source": 1,

      "value": "0"

  },

  {

      "begin": 780,

      "end": 786,

      "name": "DUP2",

      "source": 1

  },

  {

      "begin": 767,

      "end": 787,

      "name": "CALLDATALOAD",

      "source": 1

  },

  {

      "begin": 758,

      "end": 787,

      "name": "SWAP1",

      "source": 1

  },

  {

      "begin": 758,

      "end": 787,

        "name": "POP",

        "source": 1

    },

    {

        "begin": 796,

        "end": 829,

        "name": "PUSH [tag]",

        "source": 1,

        "value": "79"

    },

    {

        "begin": 823,

        "end": 828,

        "name": "DUP2",

        "source": 1

    },

    {

        "begin": 796,

        "end": 829,

        "name": "PUSH [tag]",

        "source": 1,

        "value": "55"

    },

    {

        "begin": 796,

        "end": 829,

```json
    "jumpType": "[in]",

    "name": "JUMP",

    "source": 1

},

{

    "begin": 796,

    "end": 829,

    "name": "tag",

    "source": 1,

    "value": "79"

},

{

    "begin": 796,

    "end": 829,

    "name": "JUMPDEST",

    "source": 1

},

{

    "begin": 696,

    "end": 835,

    "name": "SWAP3",

    "source": 1

},

{

    "begin": 696,

    "end": 835,
```

```
    "name": "SWAP2",

    "source": 1

},

{

    "begin": 696,

    "end": 835,

    "name": "POP",

    "source": 1

},

{

    "begin": 696,

    "end": 835,

    "name": "POP",

    "source": 1

},

{

    "begin": 696,

    "end": 835,

    "jumpType": "[out]",

    "name": "JUMP",

    "source": 1

},

{

    "begin": 841,

    "end": 918,

    "name": "tag",
```

```json
      "source": 1,

      "value": "57"

    },

    {

      "begin": 841,

      "end": 918,

      "name": "JUMPDEST",

      "source": 1

    },

    {

      "begin": 878,

      "end": 885,

      "name": "PUSH",

      "source": 1,

      "value": "0"

    },

    {

      "begin": 907,

      "end": 912,

      "name": "DUP2",

      "source": 1

    },

    {

      "begin": 896,

      "end": 912,

      "name": "SWAP1",
```

          "source": 1

      },

      {

          "begin": 896,

          "end": 912,

          "name": "POP",

          "source": 1

      },

      {

          "begin": 841,

          "end": 918,

          "name": "SWAP2",

          "source": 1

      },

      {

          "begin": 841,

          "end": 918,

          "name": "SWAP1",

          "source": 1

      },

      {

          "begin": 841,

          "end": 918,

          "name": "POP",

          "source": 1

      },

```json
    {
        "begin": 841,
        "end": 918,
        "jumpType": "[out]",
        "name": "JUMP",
        "source": 1
    },
    {
        "begin": 924,
        "end": 1046,
        "name": "tag",
        "source": 1,
        "value": "58"
    },
    {
        "begin": 924,
        "end": 1046,
        "name": "JUMPDEST",
        "source": 1
    },
    {
        "begin": 997,
        "end": 1021,
        "name": "PUSH [tag]",
        "source": 1,
        "value": "82"
```

```
        },

        {

            "begin": 1015,

            "end": 1020,

            "name": "DUP2",

            "source": 1

        },

        {

            "begin": 997,

            "end": 1021,

            "name": "PUSH [tag]",

            "source": 1,

            "value": "57"

        },

        {

            "begin": 997,

            "end": 1021,

            "jumpType": "[in]",

            "name": "JUMP",

            "source": 1

        },

        {

            "begin": 997,

            "end": 1021,

            "name": "tag",

            "source": 1,
```

```json
      "value": "82"
    },
    {
      "begin": 997,
      "end": 1021,
      "name": "JUMPDEST",
      "source": 1
    },
    {
      "begin": 990,
      "end": 995,
      "name": "DUP2",
      "source": 1
    },
    {
      "begin": 987,
      "end": 1022,
      "name": "EQ",
      "source": 1
    },
    {
      "begin": 977,
      "end": 1040,
      "name": "PUSH [tag]",
      "source": 1,
      "value": "83"
```

        },

        {

            "begin": 977,

            "end": 1040,

            "name": "JUMPI",

            "source": 1

        },

        {

            "begin": 1036,

            "end": 1037,

            "name": "PUSH",

            "source": 1,

            "value": "0"

        },

        {

            "begin": 1033,

            "end": 1034,

            "name": "DUP1",

            "source": 1

        },

        {

            "begin": 1026,

            "end": 1038,

            "name": "REVERT",

            "source": 1

        },

```json
    {
        "begin": 977,
        "end": 1040,
        "name": "tag",
        "source": 1,
        "value": "83"
    },
    {
        "begin": 977,
        "end": 1040,
        "name": "JUMPDEST",
        "source": 1
    },
    {
        "begin": 924,
        "end": 1046,
        "name": "POP",
        "source": 1
    },
    {
        "begin": 924,
        "end": 1046,
        "jumpType": "[out]",
        "name": "JUMP",
        "source": 1
    },
```

```json
    {
        "begin": 1052,
        "end": 1191,
        "name": "tag",
        "source": 1,
        "value": "59"
    },
    {
        "begin": 1052,
        "end": 1191,
        "name": "JUMPDEST",
        "source": 1
    },
    {
        "begin": 1098,
        "end": 1103,
        "name": "PUSH",
        "source": 1,
        "value": "0"
    },
    {
        "begin": 1136,
        "end": 1142,
        "name": "DUP2",
        "source": 1
    },
```

```json
    {
        "begin": 1123,
        "end": 1143,
        "name": "CALLDATALOAD",
        "source": 1
    },
    {
        "begin": 1114,
        "end": 1143,
        "name": "SWAP1",
        "source": 1
    },
    {
        "begin": 1114,
        "end": 1143,
        "name": "POP",
        "source": 1
    },
    {
        "begin": 1152,
        "end": 1185,
        "name": "PUSH [tag]",
        "source": 1,
        "value": "85"
    },
    {
```

            "begin": 1179,

            "end": 1184,

            "name": "DUP2",

            "source": 1

        },

        {

            "begin": 1152,

            "end": 1185,

            "name": "PUSH [tag]",

            "source": 1,

            "value": "58"

        },

        {

            "begin": 1152,

            "end": 1185,

            "jumpType": "[in]",

            "name": "JUMP",

            "source": 1

        },

        {

            "begin": 1152,

            "end": 1185,

            "name": "tag",

            "source": 1,

            "value": "85"

        },

```json
{
    "begin": 1152,
    "end": 1185,
    "name": "JUMPDEST",
    "source": 1
},
{
    "begin": 1052,
    "end": 1191,
    "name": "SWAP3",
    "source": 1
},
{
    "begin": 1052,
    "end": 1191,
    "name": "SWAP2",
    "source": 1
},
{
    "begin": 1052,
    "end": 1191,
    "name": "POP",
    "source": 1
},
{
    "begin": 1052,
```

```json
      "end": 1191,

      "name": "POP",

      "source": 1

   },

   {

      "begin": 1052,

      "end": 1191,

      "jumpType": "[out]",

      "name": "JUMP",

      "source": 1

   },

   {

      "begin": 1197,

      "end": 1671,

      "name": "tag",

      "source": 1,

      "value": "10"

   },

   {

      "begin": 1197,

      "end": 1671,

      "name": "JUMPDEST",

      "source": 1

   },

   {

      "begin": 1265,
```

        "end": 1271,

        "name": "PUSH",

        "source": 1,

        "value": "0"

    },

    {

        "begin": 1273,

        "end": 1279,

        "name": "DUP1",

        "source": 1

    },

    {

        "begin": 1322,

        "end": 1324,

        "name": "PUSH",

        "source": 1,

        "value": "40"

    },

    {

        "begin": 1310,

        "end": 1319,

        "name": "DUP4",

        "source": 1

    },

    {

        "begin": 1301,

        "end": 1308,

        "name": "DUP6",

        "source": 1

    },

    {

        "begin": 1297,

        "end": 1320,

        "name": "SUB",

        "source": 1

    },

    {

        "begin": 1293,

        "end": 1325,

        "name": "SLT",

        "source": 1

    },

    {

        "begin": 1290,

        "end": 1409,

        "name": "ISZERO",

        "source": 1

    },

    {

        "begin": 1290,

        "end": 1409,

        "name": "PUSH [tag]",

```json
      "source": 1,

      "value": "87"

    },

    {

      "begin": 1290,

      "end": 1409,

      "name": "JUMPI",

      "source": 1

    },

    {

      "begin": 1328,

      "end": 1407,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "88"

    },

    {

      "begin": 1328,

      "end": 1407,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "51"

    },

    {

      "begin": 1328,

      "end": 1407,
```

```json
      "jumpType": "[in]",

      "name": "JUMP",

      "source": 1

    },

    {

      "begin": 1328,

      "end": 1407,

      "name": "tag",

      "source": 1,

      "value": "88"

    },

    {

      "begin": 1328,

      "end": 1407,

      "name": "JUMPDEST",

      "source": 1

    },

    {

      "begin": 1290,

      "end": 1409,

      "name": "tag",

      "source": 1,

      "value": "87"

    },

    {

      "begin": 1290,
```

```
        "end": 1409,

        "name": "JUMPDEST",

        "source": 1

    },

    {

        "begin": 1448,

        "end": 1449,

        "name": "PUSH",

        "source": 1,

        "value": "0"

    },

    {

        "begin": 1473,

        "end": 1526,

        "name": "PUSH [tag]",

        "source": 1,

        "value": "89"

    },

    {

        "begin": 1518,

        "end": 1525,

        "name": "DUP6",

        "source": 1

    },

    {

        "begin": 1509,
```

      "end": 1515,

      "name": "DUP3",

      "source": 1

    },

    {

      "begin": 1498,

      "end": 1507,

      "name": "DUP7",

      "source": 1

    },

    {

      "begin": 1494,

      "end": 1516,

      "name": "ADD",

      "source": 1

    },

    {

      "begin": 1473,

      "end": 1526,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "56"

    },

    {

      "begin": 1473,

      "end": 1526,

```json
      "jumpType": "[in]",

      "name": "JUMP",

      "source": 1

   },

   {

      "begin": 1473,

      "end": 1526,

      "name": "tag",

      "source": 1,

      "value": "89"

   },

   {

      "begin": 1473,

      "end": 1526,

      "name": "JUMPDEST",

      "source": 1

   },

   {

      "begin": 1463,

      "end": 1526,

      "name": "SWAP3",

      "source": 1

   },

   {

      "begin": 1463,

      "end": 1526,
```

            "name": "POP",

            "source": 1

        },

        {

            "begin": 1419,

            "end": 1536,

            "name": "POP",

            "source": 1

        },

        {

            "begin": 1575,

            "end": 1577,

            "name": "PUSH",

            "source": 1,

            "value": "20"

        },

        {

            "begin": 1601,

            "end": 1654,

            "name": "PUSH [tag]",

            "source": 1,

            "value": "90"

        },

        {

            "begin": 1646,

            "end": 1653,

            "name": "DUP6",

            "source": 1

        },

        {

            "begin": 1637,

            "end": 1643,

            "name": "DUP3",

            "source": 1

        },

        {

            "begin": 1626,

            "end": 1635,

            "name": "DUP7",

            "source": 1

        },

        {

            "begin": 1622,

            "end": 1644,

            "name": "ADD",

            "source": 1

        },

        {

            "begin": 1601,

            "end": 1654,

            "name": "PUSH [tag]",

            "source": 1,

```json
            "value": "59"
        },
        {
            "begin": 1601,
            "end": 1654,
            "jumpType": "[in]",
            "name": "JUMP",
            "source": 1
        },
        {
            "begin": 1601,
            "end": 1654,
            "name": "tag",
            "source": 1,
            "value": "90"
        },
        {
            "begin": 1601,
            "end": 1654,
            "name": "JUMPDEST",
            "source": 1
        },
        {
            "begin": 1591,
            "end": 1654,
            "name": "SWAP2",
```

```
        "source": 1
    },
    {
        "begin": 1591,
        "end": 1654,
        "name": "POP",
        "source": 1
    },
    {
        "begin": 1546,
        "end": 1664,
        "name": "POP",
        "source": 1
    },
    {
        "begin": 1197,
        "end": 1671,
        "name": "SWAP3",
        "source": 1
    },
    {
        "begin": 1197,
        "end": 1671,
        "name": "POP",
        "source": 1
    },
```

```json
  {
    "begin": 1197,
    "end": 1671,
    "name": "SWAP3",
    "source": 1
  },
  {
    "begin": 1197,
    "end": 1671,
    "name": "SWAP1",
    "source": 1
  },
  {
    "begin": 1197,
    "end": 1671,
    "name": "POP",
    "source": 1
  },
  {
    "begin": 1197,
    "end": 1671,
    "jumpType": "[out]",
    "name": "JUMP",
    "source": 1
  },
  {
```

      "begin": 1677,

      "end": 2006,

      "name": "tag",

      "source": 1,

      "value": "14"

    },

    {

      "begin": 1677,

      "end": 2006,

      "name": "JUMPDEST",

      "source": 1

    },

    {

      "begin": 1736,

      "end": 1742,

      "name": "PUSH",

      "source": 1,

      "value": "0"

    },

    {

      "begin": 1785,

      "end": 1787,

      "name": "PUSH",

      "source": 1,

      "value": "20"

    },

```json
    {
        "begin": 1773,
        "end": 1782,
        "name": "DUP3",
        "source": 1
    },
    {
        "begin": 1764,
        "end": 1771,
        "name": "DUP5",
        "source": 1
    },
    {
        "begin": 1760,
        "end": 1783,
        "name": "SUB",
        "source": 1
    },
    {
        "begin": 1756,
        "end": 1788,
        "name": "SLT",
        "source": 1
    },
    {
        "begin": 1753,
```

        "end": 1872,

        "name": "ISZERO",

        "source": 1

    },

    {

        "begin": 1753,

        "end": 1872,

        "name": "PUSH [tag]",

        "source": 1,

        "value": "92"

    },

    {

        "begin": 1753,

        "end": 1872,

        "name": "JUMPI",

        "source": 1

    },

    {

        "begin": 1791,

        "end": 1870,

        "name": "PUSH [tag]",

        "source": 1,

        "value": "93"

    },

    {

        "begin": 1791,

```json
      "end": 1870,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "51"

  },

  {

      "begin": 1791,

      "end": 1870,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 1

  },

  {

      "begin": 1791,

      "end": 1870,

      "name": "tag",

      "source": 1,

      "value": "93"

  },

  {

      "begin": 1791,

      "end": 1870,

      "name": "JUMPDEST",

      "source": 1

  },

  {
```

```json
      "begin": 1753,

      "end": 1872,

      "name": "tag",

      "source": 1,

      "value": "92"

   },

   {

      "begin": 1753,

      "end": 1872,

      "name": "JUMPDEST",

      "source": 1

   },

   {

      "begin": 1911,

      "end": 1912,

      "name": "PUSH",

      "source": 1,

      "value": "0"

   },

   {

      "begin": 1936,

      "end": 1989,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "94"

   },
```

```
    {

        "begin": 1981,

        "end": 1988,

        "name": "DUP5",

        "source": 1

    },

    {

        "begin": 1972,

        "end": 1978,

        "name": "DUP3",

        "source": 1

    },

    {

        "begin": 1961,

        "end": 1970,

        "name": "DUP6",

        "source": 1

    },

    {

        "begin": 1957,

        "end": 1979,

        "name": "ADD",

        "source": 1

    },

    {

        "begin": 1936,
```

```json
        "end": 1989,

        "name": "PUSH [tag]",

        "source": 1,

        "value": "59"

    },

    {

        "begin": 1936,

        "end": 1989,

        "jumpType": "[in]",

        "name": "JUMP",

        "source": 1

    },

    {

        "begin": 1936,

        "end": 1989,

        "name": "tag",

        "source": 1,

        "value": "94"

    },

    {

        "begin": 1936,

        "end": 1989,

        "name": "JUMPDEST",

        "source": 1

    },

    {
```

```json
      "begin": 1926,

      "end": 1989,

      "name": "SWAP2",

      "source": 1
   },
   {

      "begin": 1926,

      "end": 1989,

      "name": "POP",

      "source": 1
   },
   {

      "begin": 1882,

      "end": 1999,

      "name": "POP",

      "source": 1
   },
   {

      "begin": 1677,

      "end": 2006,

      "name": "SWAP3",

      "source": 1
   },
   {

      "begin": 1677,

      "end": 2006,
```

        "name": "SWAP2",

        "source": 1

    },

    {

        "begin": 1677,

        "end": 2006,

        "name": "POP",

        "source": 1

    },

    {

        "begin": 1677,

        "end": 2006,

        "name": "POP",

        "source": 1

    },

    {

        "begin": 1677,

        "end": 2006,

        "jumpType": "[out]",

        "name": "JUMP",

        "source": 1

    },

    {

        "begin": 2012,

        "end": 2130,

        "name": "tag",

```json
      "source": 1,

      "value": "60"

    },

    {

      "begin": 2012,

      "end": 2130,

      "name": "JUMPDEST",

      "source": 1

    },

    {

      "begin": 2099,

      "end": 2123,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "96"

    },

    {

      "begin": 2117,

      "end": 2122,

      "name": "DUP2",

      "source": 1

    },

    {

      "begin": 2099,

      "end": 2123,

      "name": "PUSH [tag]",
```

```json
      "source": 1,
      "value": "54"
    },
    {
      "begin": 2099,
      "end": 2123,
      "jumpType": "[in]",
      "name": "JUMP",
      "source": 1
    },
    {
      "begin": 2099,
      "end": 2123,
      "name": "tag",
      "source": 1,
      "value": "96"
    },
    {
      "begin": 2099,
      "end": 2123,
      "name": "JUMPDEST",
      "source": 1
    },
    {
      "begin": 2094,
      "end": 2097,
```

            "name": "DUP3",

            "source": 1

        },

        {

            "begin": 2087,

            "end": 2124,

            "name": "MSTORE",

            "source": 1

        },

        {

            "begin": 2012,

            "end": 2130,

            "name": "POP",

            "source": 1

        },

        {

            "begin": 2012,

            "end": 2130,

            "name": "POP",

            "source": 1

        },

        {

            "begin": 2012,

            "end": 2130,

            "jumpType": "[out]",

            "name": "JUMP",

```json
      "source": 1
    },
    {
      "begin": 2136,
      "end": 2254,
      "name": "tag",
      "source": 1,
      "value": "61"
    },
    {
      "begin": 2136,
      "end": 2254,
      "name": "JUMPDEST",
      "source": 1
    },
    {
      "begin": 2223,
      "end": 2247,
      "name": "PUSH [tag]",
      "source": 1,
      "value": "98"
    },
    {
      "begin": 2241,
      "end": 2246,
      "name": "DUP2",
```

      "source": 1

    },

    {

      "begin": 2223,

      "end": 2247,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "57"

    },

    {

      "begin": 2223,

      "end": 2247,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 1

    },

    {

      "begin": 2223,

      "end": 2247,

      "name": "tag",

      "source": 1,

      "value": "98"

    },

    {

      "begin": 2223,

      "end": 2247,

```
    "name": "JUMPDEST",

    "source": 1

},

{

    "begin": 2218,

    "end": 2221,

    "name": "DUP3",

    "source": 1

},

{

    "begin": 2211,

    "end": 2248,

    "name": "MSTORE",

    "source": 1

},

{

    "begin": 2136,

    "end": 2254,

    "name": "POP",

    "source": 1

},

{

    "begin": 2136,

    "end": 2254,

    "name": "POP",

    "source": 1

}
```

        },

        {

            "begin": 2136,

            "end": 2254,

            "jumpType": "[out]",

            "name": "JUMP",

            "source": 1

        },

        {

            "begin": 2260,

            "end": 2702,

            "name": "tag",

            "source": 1,

            "value": "17"

        },

        {

            "begin": 2260,

            "end": 2702,

            "name": "JUMPDEST",

            "source": 1

        },

        {

            "begin": 2409,

            "end": 2413,

            "name": "PUSH",

            "source": 1,

```json
      "value": "0"
    },
    {
      "begin": 2447,
      "end": 2449,
      "name": "PUSH",
      "source": 1,
      "value": "60"
    },
    {
      "begin": 2436,
      "end": 2445,
      "name": "DUP3",
      "source": 1
    },
    {
      "begin": 2432,
      "end": 2450,
      "name": "ADD",
      "source": 1
    },
    {
      "begin": 2424,
      "end": 2450,
      "name": "SWAP1",
      "source": 1
```

      },
      {
        "begin": 2424,
        "end": 2450,
        "name": "POP",
        "source": 1
      },
      {
        "begin": 2460,
        "end": 2531,
        "name": "PUSH [tag]",
        "source": 1,
        "value": "100"
      },
      {
        "begin": 2528,
        "end": 2529,
        "name": "PUSH",
        "source": 1,
        "value": "0"
      },
      {
        "begin": 2517,
        "end": 2526,
        "name": "DUP4",
        "source": 1
      }

```
    },
    {
        "begin": 2513,
        "end": 2530,
        "name": "ADD",
        "source": 1
    },
    {
        "begin": 2504,
        "end": 2510,
        "name": "DUP7",
        "source": 1
    },
    {
        "begin": 2460,
        "end": 2531,
        "name": "PUSH [tag]",
        "source": 1,
        "value": "60"
    },
    {
        "begin": 2460,
        "end": 2531,
        "jumpType": "[in]",
        "name": "JUMP",
        "source": 1
```

```json
    },
    {
        "begin": 2460,
        "end": 2531,
        "name": "tag",
        "source": 1,
        "value": "100"
    },
    {
        "begin": 2460,
        "end": 2531,
        "name": "JUMPDEST",
        "source": 1
    },
    {
        "begin": 2541,
        "end": 2613,
        "name": "PUSH [tag]",
        "source": 1,
        "value": "101"
    },
    {
        "begin": 2609,
        "end": 2611,
        "name": "PUSH",
        "source": 1,
```

```json
      "value": "20"
    },
    {
      "begin": 2598,
      "end": 2607,
      "name": "DUP4",
      "source": 1
    },
    {
      "begin": 2594,
      "end": 2612,
      "name": "ADD",
      "source": 1
    },
    {
      "begin": 2585,
      "end": 2591,
      "name": "DUP6",
      "source": 1
    },
    {
      "begin": 2541,
      "end": 2613,
      "name": "PUSH [tag]",
      "source": 1,
      "value": "61"
```

```json
    },
    {
        "begin": 2541,
        "end": 2613,
        "jumpType": "[in]",
        "name": "JUMP",
        "source": 1
    },
    {
        "begin": 2541,
        "end": 2613,
        "name": "tag",
        "source": 1,
        "value": "101"
    },
    {
        "begin": 2541,
        "end": 2613,
        "name": "JUMPDEST",
        "source": 1
    },
    {
        "begin": 2623,
        "end": 2695,
        "name": "PUSH [tag]",
        "source": 1,
```

            "value": "102"

        },

        {

            "begin": 2691,

            "end": 2693,

            "name": "PUSH",

            "source": 1,

            "value": "40"

        },

        {

            "begin": 2680,

            "end": 2689,

            "name": "DUP4",

            "source": 1

        },

        {

            "begin": 2676,

            "end": 2694,

            "name": "ADD",

            "source": 1

        },

        {

            "begin": 2667,

            "end": 2673,

            "name": "DUP5",

            "source": 1

```json
        },
        {
            "begin": 2623,
            "end": 2695,
            "name": "PUSH [tag]",
            "source": 1,
            "value": "61"
        },
        {
            "begin": 2623,
            "end": 2695,
            "jumpType": "[in]",
            "name": "JUMP",
            "source": 1
        },
        {
            "begin": 2623,
            "end": 2695,
            "name": "tag",
            "source": 1,
            "value": "102"
        },
        {
            "begin": 2623,
            "end": 2695,
            "name": "JUMPDEST",
```

```json
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    },
    {
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      "source": 1
    },
    {
      "begin": 2260,
      "end": 2702,
      "name": "SWAP4",
      "source": 1
    },
    {
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      "end": 2702,
      "name": "POP",
      "source": 1
    },
    {
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      "end": 2702,
      "name": "POP",
      "source": 1
    },
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    },
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        "source": 1
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    {
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        "name": "JUMP",
        "source": 1
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    {
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    "source": 1

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  {

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    "name": "PUSH",

    "source": 1,

    "value": "0"

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  {

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    "source": 1,

    "value": "20"

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    "source": 1

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        "source": 1
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        "name": "SUB",
        "source": 1
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    {
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        "source": 1
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        "begin": 2784,
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        "begin": 2784,
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        "end": 2903,

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        "source": 1,

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        "source": 1,

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        "value": "51"

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      "source": 1

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        "source": 1,
        "value": "106"
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      "source": 1

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      "name": "DUP6",

      "source": 1

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      "end": 3010,

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      "source": 1

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        "name": "JUMPDEST",

        "source": 1

    },

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        "source": 1

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    {
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      "name": "POP",

      "source": 1

  },

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      "source": 1

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      "end": 3037,

      "name": "SWAP2",

      "source": 1

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      "name": "POP",

      "source": 1

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      "end": 3037,

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      "name": "JUMP",

      "source": 1

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      "source": 1,

      "value": "23"

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      "end": 3168,

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      "source": 1,

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    {

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    {

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      "source": 1

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    {

      "begin": 3179,

      "end": 3205,

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      "source": 1

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      "name": "PUSH [tag]",

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        "source": 1

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        "begin": 3259,

        "end": 3265,

        "name": "DUP6",

        "source": 1

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        "begin": 3215,

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        "name": "PUSH [tag]",

        "source": 1,

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            "source": 1

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            "source": 1

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      "source": 1,

      "value": "20"

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      "source": 1

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    {

      "begin": 3349,

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      "name": "ADD",

      "source": 1

    },

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      "value": "61"
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      "begin": 3296,
      "end": 3368,
      "jumpType": "[in]",
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      "source": 1
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      "begin": 3296,
      "end": 3368,
      "name": "tag",
      "source": 1,
      "value": "109"
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    {

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      "end": 3375,

      "name": "SWAP3",

      "source": 1

    },

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      "source": 1

    },

    {

      "begin": 3043,

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      "name": "POP",

      "source": 1
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    {
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        "name": "JUMP",
        "source": 1
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        "source": 1,
        "value": "27"
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        "begin": 3381,
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        "name": "JUMPDEST",
        "source": 1
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        "source": 1,

        "value": "0"

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        "source": 1,

        "value": "20"

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        "begin": 3501,

        "end": 3510,

        "name": "DUP3",

        "source": 1

    },

    {

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        "name": "ADD",

        "source": 1

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            "source": 1
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        {
            "begin": 3489,
            "end": 3515,
            "name": "POP",
            "source": 1
        },
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            "begin": 3525,
            "end": 3596,
            "name": "PUSH [tag]",
            "source": 1,
            "value": "111"
        },
        {
            "begin": 3593,
            "end": 3594,
            "name": "PUSH",
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        },

        {

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            "source": 1

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        {

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            "name": "ADD",

            "source": 1

        },

        {

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            "source": 1

        },

        {

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            "source": 1,

            "value": "61"

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```json
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  },
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    "begin": 3525,
    "end": 3596,
    "name": "tag",
    "source": 1,
    "value": "111"
  },
  {
    "begin": 3525,
    "end": 3596,
    "name": "JUMPDEST",
    "source": 1
  },
  {
    "begin": 3381,
    "end": 3603,
    "name": "SWAP3",
    "source": 1
  },
```

```json
    {
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        "source": 1
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    {
        "begin": 3381,
        "end": 3603,
        "name": "POP",
        "source": 1
    },
    {
        "begin": 3381,
        "end": 3603,
        "name": "POP",
        "source": 1
    },
    {
        "begin": 3381,
        "end": 3603,
        "jumpType": "[out]",
        "name": "JUMP",
        "source": 1
    },
    {
```

```json
      "begin": 3609,

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      "name": "tag",

      "source": 1,

      "value": "62"

},

{

      "begin": 3609,

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      "name": "JUMPDEST",

      "source": 1

},

{

      "begin": 3686,

      "end": 3710,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "113"

},

{

      "begin": 3704,

      "end": 3709,

      "name": "DUP2",

      "source": 1

},

{
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    "name": "PUSH [tag]",

    "source": 1,

    "value": "57"

},

{

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    "jumpType": "[in]",

    "name": "JUMP",

    "source": 1

},

{

    "begin": 3686,

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    "name": "tag",

    "source": 1,

    "value": "113"

},

{

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    "end": 3710,

    "name": "JUMPDEST",

    "source": 1

},
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```json
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    {
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        "source": 1
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    {
        "begin": 3609,
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        "source": 1
    },
    {
        "begin": 3609,
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        "source": 1
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        "begin": 3609,
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        "end": 3717,

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        "source": 1

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        "source": 1,

        "value": "63"

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        "begin": 3807,

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        "source": 1

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        "begin": 3946,

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        "source": 1,

        "value": "40"

    },

    {

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        "source": 1

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    {

        "begin": 3937,

        "end": 3951,

        "name": "ADD",

        "source": 1

    },

    {

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        "source": 1,

        "value": "0"

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    {

        "begin": 4036,

        "end": 4041,

        "name": "DUP3",

        "source": 1

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    {

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      "name": "ADD",

      "source": 1

   },

   {

      "begin": 4026,

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      "name": "MLOAD",

      "source": 1

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   {

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      "end": 4125,

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      "source": 1,

      "value": "115"

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      "value": "0"

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      "begin": 4114,

      "end": 4117,

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      "source": 1

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    {

      "begin": 4110,

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      "begin": 4096,

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      "value": "62"

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            "source": 1,

            "value": "115"

        },

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            "source": 1

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            "source": 1

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    },

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      "source": 1

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    {

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      "source": 1

    },

    {

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      "value": "116"

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      "source": 1,

      "value": "20"

    },

    {

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      "source": 1

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    {

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      "name": "ADD",

      "source": 1

    },

    {

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      "name": "DUP3",

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      "source": 1,
      "value": "62"
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    {
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      "source": 1
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      "end": 4309,
      "name": "tag",
      "source": 1,
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        "source": 1

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    {

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    {

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        "source": 1

        },

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            "source": 1

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            "source": 1,

            "value": "32"

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            "begin": 4332,

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            "name": "JUMPDEST",

            "source": 1

        },

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            "end": 4471,

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            "source": 1,

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          "source": 1,
          "value": "40"
      },
      {
          "begin": 4494,
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          "name": "DUP3",
          "source": 1
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      {
          "begin": 4490,
          "end": 4508,
          "name": "ADD",
          "source": 1
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          "begin": 4482,
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          "name": "SWAP1",
          "source": 1
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```json
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        },
        {
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            "name": "PUSH [tag]",
            "source": 1,
            "value": "118"
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        {
            "begin": 4628,
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            "source": 1,
            "value": "0"
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        {
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    },
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    {
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        "name": "DUP5",

        "source": 1
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        "source": 1,

        "value": "63"
    },
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```json
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        "value": "118"
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    },
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        "begin": 4332,
        "end": 4638,
        "name": "SWAP3",
        "source": 1
    },
    {
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        "source": 1
    },
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```json
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        "source": 1
    },
    {
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        "name": "POP",
        "source": 1
    },
    {
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        "jumpType": "[out]",
        "name": "JUMP",
        "source": 1
    },
    {
        "begin": 4644,
        "end": 4813,
        "name": "tag",
        "source": 1,
        "value": "64"
    },
```

```json
{
    "begin": 4644,
    "end": 4813,
    "name": "JUMPDEST",
    "source": 1
},
{
    "begin": 4728,
    "end": 4739,
    "name": "PUSH",
    "source": 1,
    "value": "0"
},
{
    "begin": 4762,
    "end": 4768,
    "name": "DUP3",
    "source": 1
},
{
    "begin": 4757,
    "end": 4760,
    "name": "DUP3",
    "source": 1
},
{
```

```json
      "begin": 4750,

      "end": 4769,

      "name": "MSTORE",

      "source": 1

    },

    {

      "begin": 4802,

      "end": 4806,

      "name": "PUSH",

      "source": 1,

      "value": "20"

    },

    {

      "begin": 4797,

      "end": 4800,

      "name": "DUP3",

      "source": 1

    },

    {

      "begin": 4793,

      "end": 4807,

      "name": "ADD",

      "source": 1

    },

    {

      "begin": 4778,
```

```
      "end": 4807,

      "name": "SWAP1",

      "source": 1

  },

  {

      "begin": 4778,

      "end": 4807,

      "name": "POP",

      "source": 1

  },

  {

      "begin": 4644,

      "end": 4813,

      "name": "SWAP3",

      "source": 1

  },

  {

      "begin": 4644,

      "end": 4813,

      "name": "SWAP2",

      "source": 1

  },

  {

      "begin": 4644,

      "end": 4813,

      "name": "POP",
```

```json
        "source": 1
      },
      {
        "begin": 4644,
        "end": 4813,
        "name": "POP",
        "source": 1
      },
      {
        "begin": 4644,
        "end": 4813,
        "jumpType": "[out]",
        "name": "JUMP",
        "source": 1
      },
      {
        "begin": 4819,
        "end": 4998,
        "name": "tag",
        "source": 1,
        "value": "65"
      },
      {
        "begin": 4819,
        "end": 4998,
        "name": "JUMPDEST",
```

                    "source": 1
                },
                {
                    "begin": 4959,
                    "end": 4990,
                    "name": "PUSH",
                    "source": 1,

                                              "value":
"496E73756666696369656E74206D61696E6E65742062616C616E63652E000000"
                },
                {
                    "begin": 4955,
                    "end": 4956,
                    "name": "PUSH",
                    "source": 1,
                    "value": "0"
                },
                {
                    "begin": 4947,
                    "end": 4953,
                    "name": "DUP3",
                    "source": 1
                },
                {
                    "begin": 4943,
                    "end": 4957,

      "name": "ADD",

      "source": 1

  },

  {

      "begin": 4936,

      "end": 4991,

      "name": "MSTORE",

      "source": 1

  },

  {

      "begin": 4819,

      "end": 4998,

      "name": "POP",

      "source": 1

  },

  {

      "begin": 4819,

      "end": 4998,

      "jumpType": "[out]",

      "name": "JUMP",

      "source": 1

  },

  {

      "begin": 5004,

      "end": 5370,

      "name": "tag",

```json
      "source": 1,

      "value": "66"

    },

    {

      "begin": 5004,

      "end": 5370,

      "name": "JUMPDEST",

      "source": 1

    },

    {

      "begin": 5146,

      "end": 5149,

      "name": "PUSH",

      "source": 1,

      "value": "0"

    },

    {

      "begin": 5167,

      "end": 5234,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "122"

    },

    {

      "begin": 5231,

      "end": 5233,
```

```
      "name": "PUSH",

      "source": 1,

      "value": "1D"

   },

   {

      "begin": 5226,

      "end": 5229,

      "name": "DUP4",

      "source": 1

   },

   {

      "begin": 5167,

      "end": 5234,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "64"

   },

   {

      "begin": 5167,

      "end": 5234,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 1

   },

   {

      "begin": 5167,
```

```json
            "end": 5234,

            "name": "tag",

            "source": 1,

            "value": "122"

    },

    {

            "begin": 5167,

            "end": 5234,

            "name": "JUMPDEST",

            "source": 1

    },

    {

            "begin": 5160,

            "end": 5234,

            "name": "SWAP2",

            "source": 1

    },

    {

            "begin": 5160,

            "end": 5234,

            "name": "POP",

            "source": 1

    },

    {

            "begin": 5243,

            "end": 5336,
```

      "name": "PUSH [tag]",

      "source": 1,

      "value": "123"

   },

   {

      "begin": 5332,

      "end": 5335,

      "name": "DUP3",

      "source": 1

   },

   {

      "begin": 5243,

      "end": 5336,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "65"

   },

   {

      "begin": 5243,

      "end": 5336,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 1

   },

   {

      "begin": 5243,

      "end": 5336,

      "name": "tag",

      "source": 1,

      "value": "123"

  },

  {

      "begin": 5243,

      "end": 5336,

      "name": "JUMPDEST",

      "source": 1

  },

  {

      "begin": 5361,

      "end": 5363,

      "name": "PUSH",

      "source": 1,

      "value": "20"

  },

  {

      "begin": 5356,

      "end": 5359,

      "name": "DUP3",

      "source": 1

  },

  {

      "begin": 5352,

```json
        "end": 5364,

        "name": "ADD",

        "source": 1

    },

    {

        "begin": 5345,

        "end": 5364,

        "name": "SWAP1",

        "source": 1

    },

    {

        "begin": 5345,

        "end": 5364,

        "name": "POP",

        "source": 1

    },

    {

        "begin": 5004,

        "end": 5370,

        "name": "SWAP2",

        "source": 1

    },

    {

        "begin": 5004,

        "end": 5370,

        "name": "SWAP1",
```

```json
            "source": 1
        },
        {
            "begin": 5004,
            "end": 5370,
            "name": "POP",
            "source": 1
        },
        {
            "begin": 5004,
            "end": 5370,
            "jumpType": "[out]",
            "name": "JUMP",
            "source": 1
        },
        {
            "begin": 5376,
            "end": 5795,
            "name": "tag",
            "source": 1,
            "value": "36"
        },
        {
            "begin": 5376,
            "end": 5795,
            "name": "JUMPDEST",
```

```
        "source": 1
    },
    {
        "begin": 5542,
        "end": 5546,
        "name": "PUSH",
        "source": 1,
        "value": "0"
    },
    {
        "begin": 5580,
        "end": 5582,
        "name": "PUSH",
        "source": 1,
        "value": "20"
    },
    {
        "begin": 5569,
        "end": 5578,
        "name": "DUP3",
        "source": 1
    },
    {
        "begin": 5565,
        "end": 5583,
        "name": "ADD",
```

```json
      "source": 1
    },
    {
      "begin": 5557,
      "end": 5583,
      "name": "SWAP1",
      "source": 1
    },
    {
      "begin": 5557,
      "end": 5583,
      "name": "POP",
      "source": 1
    },
    {
      "begin": 5629,
      "end": 5638,
      "name": "DUP2",
      "source": 1
    },
    {
      "begin": 5623,
      "end": 5627,
      "name": "DUP2",
      "source": 1
    },
```

```json
  {
    "begin": 5619,
    "end": 5639,
    "name": "SUB",
    "source": 1
  },
  {
    "begin": 5615,
    "end": 5616,
    "name": "PUSH",
    "source": 1,
    "value": "0"
  },
  {
    "begin": 5604,
    "end": 5613,
    "name": "DUP4",
    "source": 1
  },
  {
    "begin": 5600,
    "end": 5617,
    "name": "ADD",
    "source": 1
  },
  {
```

```json
    "begin": 5593,

    "end": 5640,

    "name": "MSTORE",

    "source": 1

},

{

    "begin": 5657,

    "end": 5788,

    "name": "PUSH [tag]",

    "source": 1,

    "value": "125"

},

{

    "begin": 5783,

    "end": 5787,

    "name": "DUP2",

    "source": 1

},

{

    "begin": 5657,

    "end": 5788,

    "name": "PUSH [tag]",

    "source": 1,

    "value": "66"

},

{
```

      "begin": 5657,

      "end": 5788,

      "jumpType": "[in]",

      "name": "JUMP",

      "source": 1

    },

    {

      "begin": 5657,

      "end": 5788,

      "name": "tag",

      "source": 1,

      "value": "125"

    },

    {

      "begin": 5657,

      "end": 5788,

      "name": "JUMPDEST",

      "source": 1

    },

    {

      "begin": 5649,

      "end": 5788,

      "name": "SWAP1",

      "source": 1

    },

    {

          "begin": 5649,

          "end": 5788,

          "name": "POP",

          "source": 1

     },

     {

          "begin": 5376,

          "end": 5795,

          "name": "SWAP2",

          "source": 1

     },

     {

          "begin": 5376,

          "end": 5795,

          "name": "SWAP1",

          "source": 1

     },

     {

          "begin": 5376,

          "end": 5795,

          "name": "POP",

          "source": 1

     },

     {

          "begin": 5376,

          "end": 5795,

                    "jumpType": "[out]",

                    "name": "JUMP",

                    "source": 1

                },

                {

                    "begin": 5801,

                    "end": 5981,

                    "name": "tag",

                    "source": 1,

                    "value": "67"

                },

                {

                    "begin": 5801,

                    "end": 5981,

                    "name": "JUMPDEST",

                    "source": 1

                },

                {

                    "begin": 5849,

                    "end": 5926,

                    "name": "PUSH",

                    "source": 1,

                                                                                "value":

"4E487B71000000000000000000000000000000000000000000000000000000000"

                },

                {

      "begin": 5846,

      "end": 5847,

      "name": "PUSH",

      "source": 1,

      "value": "0"

  },

  {

      "begin": 5839,

      "end": 5927,

      "name": "MSTORE",

      "source": 1

  },

  {

      "begin": 5946,

      "end": 5950,

      "name": "PUSH",

      "source": 1,

      "value": "11"

  },

  {

      "begin": 5943,

      "end": 5944,

      "name": "PUSH",

      "source": 1,

      "value": "4"

  },

```json
    {
        "begin": 5936,
        "end": 5951,
        "name": "MSTORE",
        "source": 1
    },
    {
        "begin": 5970,
        "end": 5974,
        "name": "PUSH",
        "source": 1,
        "value": "24"
    },
    {
        "begin": 5967,
        "end": 5968,
        "name": "PUSH",
        "source": 1,
        "value": "0"
    },
    {
        "begin": 5960,
        "end": 5975,
        "name": "REVERT",
        "source": 1
    },
```

```json
    {
        "begin": 5987,
        "end": 6181,
        "name": "tag",
        "source": 1,
        "value": "38"
    },
    {
        "begin": 5987,
        "end": 6181,
        "name": "JUMPDEST",
        "source": 1
    },
    {
        "begin": 6027,
        "end": 6031,
        "name": "PUSH",
        "source": 1,
        "value": "0"
    },
    {
        "begin": 6047,
        "end": 6067,
        "name": "PUSH [tag]",
        "source": 1,
        "value": "128"
    }
```

        },

        {

            "begin": 6065,

            "end": 6066,

            "name": "DUP3",

            "source": 1

        },

        {

            "begin": 6047,

            "end": 6067,

            "name": "PUSH [tag]",

            "source": 1,

            "value": "57"

        },

        {

            "begin": 6047,

            "end": 6067,

            "jumpType": "[in]",

            "name": "JUMP",

            "source": 1

        },

        {

            "begin": 6047,

            "end": 6067,

            "name": "tag",

            "source": 1,

```json
      "value": "128"
    },
    {
      "begin": 6047,
      "end": 6067,
      "name": "JUMPDEST",
      "source": 1
    },
    {
      "begin": 6042,
      "end": 6067,
      "name": "SWAP2",
      "source": 1
    },
    {
      "begin": 6042,
      "end": 6067,
      "name": "POP",
      "source": 1
    },
    {
      "begin": 6081,
      "end": 6101,
      "name": "PUSH [tag]",
      "source": 1,
      "value": "129"
```

        },
        {
            "begin": 6099,
            "end": 6100,
            "name": "DUP4",
            "source": 1
        },
        {
            "begin": 6081,
            "end": 6101,
            "name": "PUSH [tag]",
            "source": 1,
            "value": "57"
        },
        {
            "begin": 6081,
            "end": 6101,
            "jumpType": "[in]",
            "name": "JUMP",
            "source": 1
        },
        {
            "begin": 6081,
            "end": 6101,
            "name": "tag",
            "source": 1,

```json
      "value": "129"
    },
    {
      "begin": 6081,
      "end": 6101,
      "name": "JUMPDEST",
      "source": 1
    },
    {
      "begin": 6076,
      "end": 6101,
      "name": "SWAP3",
      "source": 1
    },
    {
      "begin": 6076,
      "end": 6101,
      "name": "POP",
      "source": 1
    },
    {
      "begin": 6125,
      "end": 6126,
      "name": "DUP3",
      "source": 1
    },
```

```json
    {
        "begin": 6122,
        "end": 6123,
        "name": "DUP3",
        "source": 1
    },
    {
        "begin": 6118,
        "end": 6127,
        "name": "SUB",
        "source": 1
    },
    {
        "begin": 6110,
        "end": 6127,
        "name": "SWAP1",
        "source": 1
    },
    {
        "begin": 6110,
        "end": 6127,
        "name": "POP",
        "source": 1
    },
    {
        "begin": 6149,
```

      "end": 6150,

      "name": "DUP2",

      "source": 1

   },

   {

      "begin": 6143,

      "end": 6147,

      "name": "DUP2",

      "source": 1

   },

   {

      "begin": 6140,

      "end": 6151,

      "name": "GT",

      "source": 1

   },

   {

      "begin": 6137,

      "end": 6174,

      "name": "ISZERO",

      "source": 1

   },

   {

      "begin": 6137,

      "end": 6174,

      "name": "PUSH [tag]",

```
      "source": 1,

      "value": "130"

  },

  {

      "begin": 6137,

      "end": 6174,

      "name": "JUMPI",

      "source": 1

  },

  {

      "begin": 6154,

      "end": 6172,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "131"

  },

  {

      "begin": 6154,

      "end": 6172,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "67"

  },

  {

      "begin": 6154,

      "end": 6172,
```

```json
      "jumpType": "[in]",

      "name": "JUMP",

      "source": 1

    },

    {

      "begin": 6154,

      "end": 6172,

      "name": "tag",

      "source": 1,

      "value": "131"

    },

    {

      "begin": 6154,

      "end": 6172,

      "name": "JUMPDEST",

      "source": 1

    },

    {

      "begin": 6137,

      "end": 6174,

      "name": "tag",

      "source": 1,

      "value": "130"

    },

    {

      "begin": 6137,
```

```json
      "end": 6174,

      "name": "JUMPDEST",

      "source": 1

  },

  {

      "begin": 5987,

      "end": 6181,

      "name": "SWAP3",

      "source": 1

  },

  {

      "begin": 5987,

      "end": 6181,

      "name": "SWAP2",

      "source": 1

  },

  {

      "begin": 5987,

      "end": 6181,

      "name": "POP",

      "source": 1

  },

  {

      "begin": 5987,

      "end": 6181,

      "name": "POP",
```

```json
      "source": 1
    },
    {
      "begin": 5987,
      "end": 6181,
      "jumpType": "[out]",
      "name": "JUMP",
      "source": 1
    },
    {
      "begin": 6187,
      "end": 6378,
      "name": "tag",
      "source": 1,
      "value": "40"
    },
    {
      "begin": 6187,
      "end": 6378,
      "name": "JUMPDEST",
      "source": 1
    },
    {
      "begin": 6227,
      "end": 6230,
      "name": "PUSH",
```

```json
      "source": 1,

      "value": "0"

    },

    {

      "begin": 6246,

      "end": 6266,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "133"

    },

    {

      "begin": 6264,

      "end": 6265,

      "name": "DUP3",

      "source": 1

    },

    {

      "begin": 6246,

      "end": 6266,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "57"

    },

    {

      "begin": 6246,

      "end": 6266,
```

```json
      "jumpType": "[in]",

      "name": "JUMP",

      "source": 1

    },

    {

      "begin": 6246,

      "end": 6266,

      "name": "tag",

      "source": 1,

      "value": "133"

    },

    {

      "begin": 6246,

      "end": 6266,

      "name": "JUMPDEST",

      "source": 1

    },

    {

      "begin": 6241,

      "end": 6266,

      "name": "SWAP2",

      "source": 1

    },

    {

      "begin": 6241,

      "end": 6266,
```

```json
            "name": "POP",

            "source": 1

        },

        {

            "begin": 6280,

            "end": 6300,

            "name": "PUSH [tag]",

            "source": 1,

            "value": "134"

        },

        {

            "begin": 6298,

            "end": 6299,

            "name": "DUP4",

            "source": 1

        },

        {

            "begin": 6280,

            "end": 6300,

            "name": "PUSH [tag]",

            "source": 1,

            "value": "57"

        },

        {

            "begin": 6280,

            "end": 6300,
```

        "jumpType": "[in]",

        "name": "JUMP",

        "source": 1

    },

    {

        "begin": 6280,

        "end": 6300,

        "name": "tag",

        "source": 1,

        "value": "134"

    },

    {

        "begin": 6280,

        "end": 6300,

        "name": "JUMPDEST",

        "source": 1

    },

    {

        "begin": 6275,

        "end": 6300,

        "name": "SWAP3",

        "source": 1

    },

    {

        "begin": 6275,

        "end": 6300,

      "name": "POP",

      "source": 1

   },

   {

      "begin": 6323,

      "end": 6324,

      "name": "DUP3",

      "source": 1

   },

   {

      "begin": 6320,

      "end": 6321,

      "name": "DUP3",

      "source": 1

   },

   {

      "begin": 6316,

      "end": 6325,

      "name": "ADD",

      "source": 1

   },

   {

      "begin": 6309,

      "end": 6325,

      "name": "SWAP1",

      "source": 1

```json
        },
        {
            "begin": 6309,
            "end": 6325,
            "name": "POP",
            "source": 1
        },
        {
            "begin": 6344,
            "end": 6347,
            "name": "DUP1",
            "source": 1
        },
        {
            "begin": 6341,
            "end": 6342,
            "name": "DUP3",
            "source": 1
        },
        {
            "begin": 6338,
            "end": 6348,
            "name": "GT",
            "source": 1
        },
        {
```

```json
      "begin": 6335,

      "end": 6371,

      "name": "ISZERO",

      "source": 1

    },

    {

      "begin": 6335,

      "end": 6371,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "135"

    },

    {

      "begin": 6335,

      "end": 6371,

      "name": "JUMPI",

      "source": 1

    },

    {

      "begin": 6351,

      "end": 6369,

      "name": "PUSH [tag]",

      "source": 1,

      "value": "136"

    },

    {
```

            "begin": 6351,

            "end": 6369,

            "name": "PUSH [tag]",

            "source": 1,

            "value": "67"

        },

        {

            "begin": 6351,

            "end": 6369,

            "jumpType": "[in]",

            "name": "JUMP",

            "source": 1

        },

        {

            "begin": 6351,

            "end": 6369,

            "name": "tag",

            "source": 1,

            "value": "136"

        },

        {

            "begin": 6351,

            "end": 6369,

            "name": "JUMPDEST",

            "source": 1

        },

```json
    {
        "begin": 6335,
        "end": 6371,
        "name": "tag",
        "source": 1,
        "value": "135"
    },
    {
        "begin": 6335,
        "end": 6371,
        "name": "JUMPDEST",
        "source": 1
    },
    {
        "begin": 6187,
        "end": 6378,
        "name": "SWAP3",
        "source": 1
    },
    {
        "begin": 6187,
        "end": 6378,
        "name": "SWAP2",
        "source": 1
    },
    {
```

```json
                    "begin": 6187,

                    "end": 6378,

                    "name": "POP",

                    "source": 1

                },

                {

                    "begin": 6187,

                    "end": 6378,

                    "name": "POP",

                    "source": 1

                },

                {

                    "begin": 6187,

                    "end": 6378,

                    "jumpType": "[out]",

                    "name": "JUMP",

                    "source": 1

                }

            ]

        }

    },

    "sourceList": [

        "Mainnet2testnet.sol",

        "#utility.yul"

    ]

},
```

"methodIdentifiers": {

"getLedger(address)": "f7cd6af9",

"getTotalTransactions()": "b5c604ff",

"ledgers(address)": "b1e1c370",

"performTransaction(address,uint256)": "67844d2b",

"transactions(uint256)": "9ace38c2"

}

},

"metadata":
"{\"compiler\":{\"version\":\"0.8.25+commit.b61c2a91\"},\"language\":\"Solidity\",\"output\":{\"abi\":[{\"inputs\":[],\"stateMutability\":\"nonpayable\",\"type\":\"constructor\"},{\"anonymous\":false,\"inputs\":[{\"indexed\":true,\"internalType\":\"address\",\"name\":\"participant\",\"type\":\"address\"},{\"indexed\":false,\"internalType\":\"uint256\",\"name\":\"newMainnetBalance\",\"type\":\"uint256\"},{\"indexed\":false,\"internalType\":\"uint256\",\"name\":\"newTestnetBalance\",\"type\":\"uint256\"}],\"name\":\"LedgerUpdated\",\"type\":\"event\"},{\"anonymous\":false,\"inputs\":[{\"indexed\":true,\"internalType\":\"address\",\"name\":\"participant\",\"type\":\"address\"},{\"indexed\":false,\"internalType\":\"uint256\",\"name\":\"mainnetAmount\",\"type\":\"uint256\"},{\"indexed\":false,\"internalType\":\"uint256\",\"name\":\"testnetAmount\",\"type\":\"uint256\"}],\"name\":\"TransactionLogged\",\"type\":\"event\"},{\"inputs\":[{\"internalType\":\"address\",\"name\":\"participant\",\"type\":\"address\"}],\"name\":\"getLedger\",\"outputs\":[{\"components\":[{\"internalType\":\"uint256\",\"name\":\"mainnetBalance\",\"type\":\"uint256\"},{\"internalType\":\"uint256\",\"name\":\"testnetBalance\",\"type\":\"uint256\"}],\"internalType\":\"struct LiminalFinancialSystem.Ledger\",\"name\":\"\",\"type\":\"tuple\"}],\"stateMutability\":\"view\",\"type\":\"function\"},{\"inputs\":[],\"name\":\"getTotalTransactions\",\"outputs\":[{\"internalType\":\"uint256\",\"name\":\"\",\"type\":\"uint256\"}],\"stateMutability\":\"view\",\"type\":\"function\"},{\"inputs\":[{\"internalType\":\"address\",\"name\":\"\",\"type\":\"address\"}],\"name\":\"ledgers\",\"outputs\":[{\"internalType\":\"uint256\",\"name\":\"mainnetBalance\",\"type\":\"uint256\"},{\"internalType\":\"uint256\",\"name\":\"testnet

Balance\",\"type\":\"uint256\"}],\"stateMutability\":\"view\",\"type\":\"function\"},{\"inputs\":[{\"internalTy pe\":\"address\",\"name\":\"participant\",\"type\":\"address\"},{\"internalType\":\"uint256\",\"name\":\"a mount\",\"type\":\"uint256\"}],\"name\":\"performTransaction\",\"outputs\":[],\"stateMutability\":\"nonpay able\",\"type\":\"function\"},{\"inputs\":[{\"internalType\":\"uint256\",\"name\":\"\",\"type\":\"uint256\"}],\"n ame\":\"transactions\",\"outputs\":[{\"internalType\":\"address\",\"name\":\"participant\",\"type\":\"addre ss\"},{\"internalType\":\"uint256\",\"name\":\"mainnetAmount\",\"type\":\"uint256\"},{\"internalType\":\"u int256\",\"name\":\"testnetAmount\",\"type\":\"uint256\"}],\"stateMutability\":\"view\",\"type\":\"function\" }],\"devdoc\":{\"author\":\"James Ocallaghan\",\"details\":\"The system showcases credit/debit balance management across mainnet and testnet ledgers. Visit ENS: citibankdemobusiness.dev for details.\",\"kind\":\"dev\",\"methods\":{\"constructor\":{\"details\":\"Initialize with a transaction\"},\"getLedger(address)\":{\"details\":\"Getter function for a participant's ledger balances.\",\"params\":{\"participant\":\"The address of the participant.\"},\"returns\":{\"_0\":\"Ledger memory The ledger of the participant.\"}},\"getTotalTransactions()\":{\"details\":\"Getter function for total transactions (for demonstration).\",\"returns\":{\"_0\":\"uint256 The total number of transactions.\"}},\"performTransaction(address,uint256)\":{\"details\":\"Perform a transaction, debiting the mainnet balance and crediting the testnet balance.\",\"params\":{\"amount\":\"The amount to transfer between ledgers.\",\"participant\":\"The address of the participant performing the transaction.\"}}},\"title\":\"Liminal Financial Transaction System\",\"version\":1},\"userdoc\":{\"kind\":\"user\",\"methods\":{},\"notice\":\"This contract demonstrates a dual-ledger transaction system for Citibank Demo Business Inc.\",\"version\":1}},\"settings\":{\"compilationTarget\":{\"Mainnet2testnet.sol\":\"LiminalFinancialSyst em\"},\"evmVersion\":\"cancun\",\"libraries\":{},\"metadata\":{\"bytecodeHash\":\"ipfs\"},\"optimizer\":{\" enabled\":false,\"runs\":200},\"remappings\":[]},\"sources\":{\"Mainnet2testnet.sol\":{\"keccak256\":\"0 x2207e8ba1e0d45373fb350d5b7ca0a1463460ee4cd2e597964591d629c69770e\",\"license\":\"MIT\" ,\"urls\":[\"bzz-raw://c28d29e92769f56201ee0ba954d41e5f47a6d94751438a65be312d6cf8ad0023\", \"dweb:/ipfs/QmTLRchQdn8RnmWHS37wJub3eq1P6ANrPA96P8LP3CzpfJ\"]}},\"version\":1}",

```json
"storageLayout": {
    "storage": [
        {
            "astId": 19,
            "contract": "Mainnet2testnet.sol:LiminalFinancialSystem",
            "label": "ledgers",
            "offset": 0,
            "slot": "0",
            "type": "t_mapping(t_address,t_struct(Ledger)7_storage)"
        },
        {
            "astId": 23,
            "contract": "Mainnet2testnet.sol:LiminalFinancialSystem",
            "label": "transactions",
            "offset": 0,
            "slot": "1",
            "type": "t_array(t_struct(Transaction)14_storage)dyn_storage"
        }
    ],
    "types": {
        "t_address": {
            "encoding": "inplace",
            "label": "address",
            "numberOfBytes": "20"
        },
        "t_array(t_struct(Transaction)14_storage)dyn_storage": {
```

```json
    "base": "t_struct(Transaction)14_storage",

    "encoding": "dynamic_array",

    "label": "struct LiminalFinancialSystem.Transaction[]",

    "numberOfBytes": "32"

},

"t_mapping(t_address,t_struct(Ledger)7_storage)": {

    "encoding": "mapping",

    "key": "t_address",

    "label": "mapping(address => struct LiminalFinancialSystem.Ledger)",

    "numberOfBytes": "32",

    "value": "t_struct(Ledger)7_storage"

},

"t_struct(Ledger)7_storage": {

    "encoding": "inplace",

    "label": "struct LiminalFinancialSystem.Ledger",

    "members": [

        {

            "astId": 4,

            "contract": "Mainnet2testnet.sol:LiminalFinancialSystem",

            "label": "mainnetBalance",

            "offset": 0,

            "slot": "0",

            "type": "t_uint256"

        },

        {

            "astId": 6,
```

```json
        "contract": "Mainnet2testnet.sol:LiminalFinancialSystem",

        "label": "testnetBalance",

        "offset": 0,

        "slot": "1",

        "type": "t_uint256"

    }

],

"numberOfBytes": "64"

},

"t_struct(Transaction)14_storage": {

    "encoding": "inplace",

    "label": "struct LiminalFinancialSystem.Transaction",

    "members": [

        {

            "astId": 9,

            "contract": "Mainnet2testnet.sol:LiminalFinancialSystem",

            "label": "participant",

            "offset": 0,

            "slot": "0",

            "type": "t_address"

        },

        {

            "astId": 11,

            "contract": "Mainnet2testnet.sol:LiminalFinancialSystem",

            "label": "mainnetAmount",

            "offset": 0,
```

```json
                    "slot": "1",

                    "type": "t_uint256"

                },

                {

                    "astId": 13,

                    "contract": "Mainnet2testnet.sol:LiminalFinancialSystem",

                    "label": "testnetAmount",

                    "offset": 0,

                    "slot": "2",

                    "type": "t_uint256"

                }

            ],

            "numberOfBytes": "96"

        },

        "t_uint256": {

            "encoding": "inplace",

            "label": "uint256",

            "numberOfBytes": "32"

        }

    }

},

"userdoc": {

    "kind": "user",

    "methods": {},

    "notice": "This contract demonstrates a dual-ledger transaction system for Citibank

Demo Business Inc.",
```

```json
                    "version": 1
                }
            }
        }
    },
    "sources": {
        "Mainnet2testnet.sol": {
            "ast": {
                "absolutePath": "Mainnet2testnet.sol",
                "exportedSymbols": {
                    "LiminalFinancialSystem": [
                        146
                    ]
                },
                "id": 147,
                "license": "MIT",
                "nodeType": "SourceUnit",
                "nodes": [
                    {
                        "id": 1,
                        "literals": [
                            "solidity",
                            "^",
                            "0.8",
                            ".0"
                        ],
```

          "nodeType": "PragmaDirective",

          "src": "32:23:0"

        },

        {

          "abstract": false,

          "baseContracts": [],

          "canonicalName": "LiminalFinancialSystem",

          "contractDependencies": [],

          "contractKind": "contract",

          "documentation": {

            "id": 2,

            "nodeType": "StructuredDocumentation",

            "src": "57:334:0",

                "text": " @title Liminal Financial Transaction System\n @author James Ocallaghan\n @notice This contract demonstrates a dual-ledger transaction system for Citibank Demo Business Inc.\n @dev The system showcases credit/debit balance management across mainnet and testnet ledgers.\n Visit ENS: citibankdemobusiness.dev for details."

          },

          "fullyImplemented": true,

          "id": 146,

          "linearizedBaseContracts": [

            146

          ],

          "name": "LiminalFinancialSystem",

          "nameLocation": "402:22:0",

          "nodeType": "ContractDefinition",

```json
"nodes": [
    {
        "canonicalName": "LiminalFinancialSystem.Ledger",
        "id": 7,
        "members": [
            {
                "constant": false,
                "id": 4,
                "mutability": "mutable",
                "name": "mainnetBalance",
                "nameLocation": "516:14:0",
                "nodeType": "VariableDeclaration",
                "scope": 7,
                "src": "508:22:0",
                "stateVariable": false,
                "storageLocation": "default",
                "typeDescriptions": {
                    "typeIdentifier": "t_uint256",
                    "typeString": "uint256"
                },
                "typeName": {
                    "id": 3,
                    "name": "uint256",
                    "nodeType": "ElementaryTypeName",
                    "src": "508:7:0",
                    "typeDescriptions": {
```

```json
                    "typeIdentifier": "t_uint256",

                    "typeString": "uint256"

                }

            },

            "visibility": "internal"

        },

        {

            "constant": false,

            "id": 6,

            "mutability": "mutable",

            "name": "testnetBalance",

            "nameLocation": "614:14:0",

            "nodeType": "VariableDeclaration",

            "scope": 7,

            "src": "606:22:0",

            "stateVariable": false,

            "storageLocation": "default",

            "typeDescriptions": {

                "typeIdentifier": "t_uint256",

                "typeString": "uint256"

            },

            "typeName": {

                "id": 5,

                "name": "uint256",

                "nodeType": "ElementaryTypeName",

                "src": "606:7:0",
```

```json
                    "typeDescriptions": {

                        "typeIdentifier": "t_uint256",

                        "typeString": "uint256"

                    }

                },

                "visibility": "internal"

            }

        ],

        "name": "Ledger",

        "nameLocation": "491:6:0",

        "nodeType": "StructDefinition",

        "scope": 146,

        "src": "484:216:0",

        "visibility": "public"

    },

    {

        "canonicalName": "LiminalFinancialSystem.Transaction",

        "id": 14,

        "members": [

            {

                "constant": false,

                "id": 9,

                "mutability": "mutable",

                "name": "participant",

                "nameLocation": "775:11:0",

                "nodeType": "VariableDeclaration",
```

"scope": 14,

"src": "767:19:0",

"stateVariable": false,

"storageLocation": "default",

"typeDescriptions": {

  "typeIdentifier": "t_address",

  "typeString": "address"

},

"typeName": {

  "id": 8,

  "name": "address",

  "nodeType": "ElementaryTypeName",

  "src": "767:7:0",

  "stateMutability": "nonpayable",

  "typeDescriptions": {

    "typeIdentifier": "t_address",

    "typeString": "address"

  }

},

"visibility": "internal"

},

{

"constant": false,

"id": 11,

"mutability": "mutable",

"name": "mainnetAmount",

            "nameLocation": "804:13:0",

            "nodeType": "VariableDeclaration",

            "scope": 14,

            "src": "796:21:0",

            "stateVariable": false,

            "storageLocation": "default",

            "typeDescriptions": {

                "typeIdentifier": "t_uint256",

                "typeString": "uint256"

            },

            "typeName": {

                "id": 10,

                "name": "uint256",

                "nodeType": "ElementaryTypeName",

                "src": "796:7:0",

                "typeDescriptions": {

                    "typeIdentifier": "t_uint256",

                    "typeString": "uint256"

                }

            },

            "visibility": "internal"

        },

        {

            "constant": false,

            "id": 13,

            "mutability": "mutable",

          "name": "testnetAmount",

          "nameLocation": "870:13:0",

          "nodeType": "VariableDeclaration",

          "scope": 14,

          "src": "862:21:0",

          "stateVariable": false,

          "storageLocation": "default",

          "typeDescriptions": {

               "typeIdentifier": "t_uint256",

               "typeString": "uint256"

          },

          "typeName": {

               "id": 12,

               "name": "uint256",

               "nodeType": "ElementaryTypeName",

               "src": "862:7:0",

               "typeDescriptions": {

                    "typeIdentifier": "t_uint256",

                    "typeString": "uint256"

               }

          },

          "visibility": "internal"

     }

],

"name": "Transaction",

"nameLocation": "745:11:0",

"nodeType": "StructDefinition",

"scope": 146,

"src": "738:186:0",

"visibility": "public"

},

{

"constant": false,

"functionSelector": "b1e1c370",

"id": 19,

"mutability": "mutable",

"name": "ledgers",

"nameLocation": "1016:7:0",

"nodeType": "VariableDeclaration",

"scope": 146,

"src": "982:41:0",

"stateVariable": true,

"storageLocation": "default",

"typeDescriptions": {

"typeIdentifier":

"t_mapping$_t_address_$_t_struct$_Ledger_$7_storage_$",

"typeString": "mapping(address => struct

LiminalFinancialSystem.Ledger)"

},

"typeName": {

"id": 18,

"keyName": "",

"keyNameLocation": "-1:-1:-1",

"keyType": {

  "id": 15,

  "name": "address",

  "nodeType": "ElementaryTypeName",

  "src": "990:7:0",

  "typeDescriptions": {

    "typeIdentifier": "t_address",

    "typeString": "address"

  }

},

"nodeType": "Mapping",

"src": "982:26:0",

"typeDescriptions": {

    "typeIdentifier": "t_mapping$_t_address_$_t_struct$_Ledger_$7_storage_$",

    "typeString": "mapping(address => struct LiminalFinancialSystem.Ledger)"

},

"valueName": "",

"valueNameLocation": "-1:-1:-1",

"valueType": {

  "id": 17,

  "nodeType": "UserDefinedTypeName",

  "pathNode": {

    "id": 16,

          "name": "Ledger",

          "nameLocations": [

              "1001:6:0"

          ],

          "nodeType": "IdentifierPath",

          "referencedDeclaration": 7,

          "src": "1001:6:0"

        },

        "referencedDeclaration": 7,

        "src": "1001:6:0",

        "typeDescriptions": {

            "typeIdentifier": "t_struct$_Ledger_$7_storage_ptr",

            "typeString": "struct LiminalFinancialSystem.Ledger"

        }

      }

    },

    "visibility": "public"

  },

  {

    "constant": false,

    "functionSelector": "9ace38c2",

    "id": 23,

    "mutability": "mutable",

    "name": "transactions",

    "nameLocation": "1103:12:0",

    "nodeType": "VariableDeclaration",

"scope": 146,

"src": "1082:33:0",

"stateVariable": true,

"storageLocation": "default",

"typeDescriptions": {

"typeIdentifier":

"t_array$_t_struct$_Transaction_$14_storage_$dyn_storage",

"typeString": "struct LiminalFinancialSystem.Transaction[]"

},

"typeName": {

"baseType": {

"id": 21,

"nodeType": "UserDefinedTypeName",

"pathNode": {

"id": 20,

"name": "Transaction",

"nameLocations": [

"1082:11:0"

],

"nodeType": "IdentifierPath",

"referencedDeclaration": 14,

"src": "1082:11:0"

},

"referencedDeclaration": 14,

"src": "1082:11:0",

"typeDescriptions": {

"typeIdentifier": "t_struct$_Transaction_$14_storage_ptr",

"typeString": "struct LiminalFinancialSystem.Transaction"

                }

            },

            "id": 22,

            "nodeType": "ArrayTypeName",

            "src": "1082:13:0",

            "typeDescriptions": {

                                            "typeIdentifier":

"t_array$_t_struct$_Transaction_$14_storage_$dyn_storage_ptr",

                "typeString": "struct LiminalFinancialSystem.Transaction[]"

            }

        },

        "visibility": "public"

    },

    {

        "anonymous": false,

                                    "eventSelector":

"7772d368cd3cc6fa8dc9c0956d36dd1243d603abc8d99496f89d0e6950d80dde",

        "id": 31,

        "name": "TransactionLogged",

        "nameLocation": "1191:17:0",

        "nodeType": "EventDefinition",

        "parameters": {

            "id": 30,

            "nodeType": "ParameterList",

"parameters": [

  {

    "constant": false,

    "id": 25,

    "indexed": true,

    "mutability": "mutable",

    "name": "participant",

    "nameLocation": "1225:11:0",

    "nodeType": "VariableDeclaration",

    "scope": 31,

    "src": "1209:27:0",

    "stateVariable": false,

    "storageLocation": "default",

    "typeDescriptions": {

      "typeIdentifier": "t_address",

      "typeString": "address"

    },

    "typeName": {

      "id": 24,

      "name": "address",

      "nodeType": "ElementaryTypeName",

      "src": "1209:7:0",

      "stateMutability": "nonpayable",

      "typeDescriptions": {

        "typeIdentifier": "t_address",

        "typeString": "address"

```json
            }
          },
          "visibility": "internal"
        },
        {
          "constant": false,
          "id": 27,
          "indexed": false,
          "mutability": "mutable",
          "name": "mainnetAmount",
          "nameLocation": "1246:13:0",
          "nodeType": "VariableDeclaration",
          "scope": 31,
          "src": "1238:21:0",
          "stateVariable": false,
          "storageLocation": "default",
          "typeDescriptions": {
            "typeIdentifier": "t_uint256",
            "typeString": "uint256"
          },
          "typeName": {
            "id": 26,
            "name": "uint256",
            "nodeType": "ElementaryTypeName",
            "src": "1238:7:0",
            "typeDescriptions": {
```

              "typeIdentifier": "t_uint256",

              "typeString": "uint256"

          }

      },

      "visibility": "internal"

  },

  {

      "constant": false,

      "id": 29,

      "indexed": false,

      "mutability": "mutable",

      "name": "testnetAmount",

      "nameLocation": "1269:13:0",

      "nodeType": "VariableDeclaration",

      "scope": 31,

      "src": "1261:21:0",

      "stateVariable": false,

      "storageLocation": "default",

      "typeDescriptions": {

          "typeIdentifier": "t_uint256",

          "typeString": "uint256"

      },

      "typeName": {

          "id": 28,

          "name": "uint256",

          "nodeType": "ElementaryTypeName",

                    "src": "1261:7:0",

                        "typeDescriptions": {

                            "typeIdentifier": "t_uint256",

                            "typeString": "uint256"

                        }

                    },

                    "visibility": "internal"

                }

            ],

            "src": "1208:75:0"

        },

        "src": "1185:99:0"

    },

    {

        "anonymous": false,

                                                    "eventSelector":

"e3e2e5b15dbd2776222deab4cbd7fb2aeeecfd735eed24e9809b2352f3fa2d37",

        "id": 39,

        "name": "LedgerUpdated",

        "nameLocation": "1295:13:0",

        "nodeType": "EventDefinition",

        "parameters": {

            "id": 38,

            "nodeType": "ParameterList",

            "parameters": [

                {

"constant": false,

"id": 33,

"indexed": true,

"mutability": "mutable",

"name": "participant",

"nameLocation": "1325:11:0",

"nodeType": "VariableDeclaration",

"scope": 39,

"src": "1309:27:0",

"stateVariable": false,

"storageLocation": "default",

"typeDescriptions": {

   "typeIdentifier": "t_address",

   "typeString": "address"

},

"typeName": {

   "id": 32,

   "name": "address",

   "nodeType": "ElementaryTypeName",

   "src": "1309:7:0",

   "stateMutability": "nonpayable",

   "typeDescriptions": {

      "typeIdentifier": "t_address",

      "typeString": "address"

   }

},

```json
            "visibility": "internal"
        },
        {
            "constant": false,
            "id": 35,
            "indexed": false,
            "mutability": "mutable",
            "name": "newMainnetBalance",
            "nameLocation": "1346:17:0",
            "nodeType": "VariableDeclaration",
            "scope": 39,
            "src": "1338:25:0",
            "stateVariable": false,
            "storageLocation": "default",
            "typeDescriptions": {
                "typeIdentifier": "t_uint256",
                "typeString": "uint256"
            },
            "typeName": {
                "id": 34,
                "name": "uint256",
                "nodeType": "ElementaryTypeName",
                "src": "1338:7:0",
                "typeDescriptions": {
                    "typeIdentifier": "t_uint256",
                    "typeString": "uint256"
```

                    }

                },

                "visibility": "internal"

            },

            {

                "constant": false,

                "id": 37,

                "indexed": false,

                "mutability": "mutable",

                "name": "newTestnetBalance",

                "nameLocation": "1373:17:0",

                "nodeType": "VariableDeclaration",

                "scope": 39,

                "src": "1365:25:0",

                "stateVariable": false,

                "storageLocation": "default",

                "typeDescriptions": {

                    "typeIdentifier": "t_uint256",

                    "typeString": "uint256"

                },

                "typeName": {

                    "id": 36,

                    "name": "uint256",

                    "nodeType": "ElementaryTypeName",

                    "src": "1365:7:0",

                    "typeDescriptions": {

```json
                    "typeIdentifier": "t_uint256",

                    "typeString": "uint256"

                  }

                },

                "visibility": "internal"

              }

            ],

            "src": "1308:83:0"

          },

          "src": "1289:103:0"

        },

        {

          "body": {

            "id": 59,

            "nodeType": "Block",

            "src": "1470:255:0",

            "statements": [

              {

                "expression": {

                  "id": 49,

                  "isConstant": false,

                  "isLValue": false,

                  "isPure": false,

                  "lValueRequested": false,

                  "leftHandSide": {

                    "expression": {
```

```json
"baseExpression": {
    "id": 43,
    "name": "ledgers",
    "nodeType": "Identifier",
    "overloadedDeclarations": [],
    "referencedDeclaration": 19,
    "src": "1571:7:0",
    "typeDescriptions": {
        "typeIdentifier": "t_mapping$_t_address_$_t_struct$_Ledger_$7_storage_$",
        "typeString": "mapping(address => struct LiminalFinancialSystem.Ledger storage ref)"
    }
},
"id": 46,
"indexExpression": {
    "expression": {
        "id": 44,
        "name": "msg",
        "nodeType": "Identifier",
        "overloadedDeclarations": [],
        "referencedDeclaration": 4294967281,
        "src": "1579:3:0",
        "typeDescriptions": {
            "typeIdentifier": "t_magic_message",
            "typeString": "msg"
```

                    }
                },
                "id": 45,
                "isConstant": false,
                "isLValue": false,
                "isPure": false,
                "lValueRequested": false,
                "memberLocation": "1583:6:0",
                "memberName": "sender",
                "nodeType": "MemberAccess",
                "src": "1579:10:0",
                "typeDescriptions": {
                    "typeIdentifier": "t_address",
                    "typeString": "address"
                }
            },
            "isConstant": false,
            "isLValue": true,
            "isPure": false,
            "lValueRequested": false,
            "nodeType": "IndexAccess",
            "src": "1571:19:0",
            "typeDescriptions": {
                "typeIdentifier": "t_struct$_Ledger_$7_storage",
                    "typeString": "struct LiminalFinancialSystem.Ledger

storage ref"

            }

        },

        "id": 47,

        "isConstant": false,

        "isLValue": true,

        "isPure": false,

        "lValueRequested": true,

        "memberLocation": "1591:14:0",

        "memberName": "mainnetBalance",

        "nodeType": "MemberAccess",

        "referencedDeclaration": 4,

        "src": "1571:34:0",

        "typeDescriptions": {

            "typeIdentifier": "t_uint256",

            "typeString": "uint256"

        }

    },

    "nodeType": "Assignment",

    "operator": "=",

    "rightHandSide": {

        "hexValue": "31303030",

        "id": 48,

        "isConstant": false,

        "isLValue": false,

        "isPure": true,

        "kind": "number",

```
                    "lValueRequested": false,

                    "nodeType": "Literal",

                    "src": "1608:4:0",

                    "typeDescriptions": {

                        "typeIdentifier": "t_rational_1000_by_1",

                        "typeString": "int_const 1000"

                    },

                    "value": "1000"

                },

                "src": "1571:41:0",

                "typeDescriptions": {

                    "typeIdentifier": "t_uint256",

                    "typeString": "uint256"

                }

            },

            "id": 50,

            "nodeType": "ExpressionStatement",

            "src": "1571:41:0"

        },

        {

            "expression": {

                "id": 57,

                "isConstant": false,

                "isLValue": false,

                "isPure": false,

                "lValueRequested": false,
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"leftHandSide": {

    "expression": {

        "baseExpression": {

            "id": 51,

            "name": "ledgers",

            "nodeType": "Identifier",

            "overloadedDeclarations": [],

            "referencedDeclaration": 19,

            "src": "1650:7:0",

            "typeDescriptions": {

                                                "typeIdentifier":

"t_mapping$_t_address_$_t_struct$_Ledger_$7_storage_$",

                            "typeString": "mapping(address => struct

LiminalFinancialSystem.Ledger storage ref)"

            }

        },

        "id": 54,

        "indexExpression": {

            "expression": {

                "id": 52,

                "name": "msg",

                "nodeType": "Identifier",

                "overloadedDeclarations": [],

                "referencedDeclaration": 4294967281,

                "src": "1658:3:0",

                "typeDescriptions": {

                    "typeIdentifier": "t_magic_message",

                    "typeString": "msg"

                  }

                },

                "id": 53,

                "isConstant": false,

                "isLValue": false,

                "isPure": false,

                "lValueRequested": false,

                "memberLocation": "1662:6:0",

                "memberName": "sender",

                "nodeType": "MemberAccess",

                "src": "1658:10:0",

                "typeDescriptions": {

                    "typeIdentifier": "t_address",

                    "typeString": "address"

                }

              },

              "isConstant": false,

              "isLValue": true,

              "isPure": false,

              "lValueRequested": false,

              "nodeType": "IndexAccess",

              "src": "1650:19:0",

              "typeDescriptions": {

                  "typeIdentifier": "t_struct$_Ledger_$7_storage",

"typeString": "struct LiminalFinancialSystem.Ledger
storage ref"

            }

          },

          "id": 55,

          "isConstant": false,

          "isLValue": true,

          "isPure": false,

          "lValueRequested": true,

          "memberLocation": "1670:14:0",

          "memberName": "testnetBalance",

          "nodeType": "MemberAccess",

          "referencedDeclaration": 6,

          "src": "1650:34:0",

          "typeDescriptions": {

            "typeIdentifier": "t_uint256",

            "typeString": "uint256"

          }

        },

        "nodeType": "Assignment",

        "operator": "=",

        "rightHandSide": {

          "hexValue": "353030",

          "id": 56,

          "isConstant": false,

          "isLValue": false,

```
                        "isPure": true,

                        "kind": "number",

                        "lValueRequested": false,

                        "nodeType": "Literal",

                        "src": "1687:3:0",

                        "typeDescriptions": {

                            "typeIdentifier": "t_rational_500_by_1",

                            "typeString": "int_const 500"

                        },

                        "value": "500"

                    },

                    "src": "1650:40:0",

                    "typeDescriptions": {

                        "typeIdentifier": "t_uint256",

                        "typeString": "uint256"

                    }

                },

                "id": 58,

                "nodeType": "ExpressionStatement",

                "src": "1650:40:0"

            }

        ]

    },

    "documentation": {

        "id": 40,

        "nodeType": "StructuredDocumentation",
```

                "src": "1398:53:0",

                "text": " @dev Initialize with a transaction"

            },

            "id": 60,

            "implemented": true,

            "kind": "constructor",

            "modifiers": [],

            "name": "",

            "nameLocation": "-1:-1:-1",

            "nodeType": "FunctionDefinition",

            "parameters": {

                "id": 41,

                "nodeType": "ParameterList",

                "parameters": [],

                "src": "1467:2:0"

            },

            "returnParameters": {

                "id": 42,

                "nodeType": "ParameterList",

                "parameters": [],

                "src": "1470:0:0"

            },

            "scope": 146,

            "src": "1456:269:0",

            "stateMutability": "nonpayable",

            "virtual": false,

                "visibility": "public"
        },
        {
            "body": {
                "id": 120,
                "nodeType": "Block",
                "src": "2066:574:0",
                "statements": [
                    {
                        "expression": {
                            "arguments": [
                                {
                                    "commonType": {
                                        "typeIdentifier": "t_uint256",
                                        "typeString": "uint256"
                                    },
                                    "id": 74,
                                    "isConstant": false,
                                    "isLValue": false,
                                    "isPure": false,
                                    "lValueRequested": false,
                                    "leftExpression": {
                                        "expression": {
                                            "baseExpression": {
                                                "id": 69,
                                                "name": "ledgers",

"nodeType": "Identifier",

"overloadedDeclarations": [],

"referencedDeclaration": 19,

"src": "2084:7:0",

"typeDescriptions": {

"typeIdentifier":

"t_mapping$_t_address_$_t_struct$_Ledger_$7_storage_$",

"typeString": "mapping(address => struct

LiminalFinancialSystem.Ledger storage ref)"

}

},

"id": 71,

"indexExpression": {

"id": 70,

"name": "participant",

"nodeType": "Identifier",

"overloadedDeclarations": [],

"referencedDeclaration": 63,

"src": "2092:11:0",

"typeDescriptions": {

"typeIdentifier": "t_address",

"typeString": "address"

}

},

"isConstant": false,

"isLValue": true,

"isPure": false,

"lValueRequested": false,

"nodeType": "IndexAccess",

"src": "2084:20:0",

"typeDescriptions": {

"typeIdentifier": "t_struct$_Ledger_$7_storage",

"typeString": "struct LiminalFinancialSystem.Ledger

storage ref"

}

},

"id": 72,

"isConstant": false,

"isLValue": true,

"isPure": false,

"lValueRequested": false,

"memberLocation": "2105:14:0",

"memberName": "mainnetBalance",

"nodeType": "MemberAccess",

"referencedDeclaration": 4,

"src": "2084:35:0",

"typeDescriptions": {

"typeIdentifier": "t_uint256",

"typeString": "uint256"

}

},

"nodeType": "BinaryOperation",

                    "operator": ">=",

                    "rightExpression": {

                        "id": 73,

                        "name": "amount",

                        "nodeType": "Identifier",

                        "overloadedDeclarations": [],

                        "referencedDeclaration": 65,

                        "src": "2123:6:0",

                        "typeDescriptions": {

                            "typeIdentifier": "t_uint256",

                            "typeString": "uint256"

                        }

                    },

                    "src": "2084:45:0",

                    "typeDescriptions": {

                        "typeIdentifier": "t_bool",

                        "typeString": "bool"

                    }

                },

                {

                                                "hexValue":

"496e737566666963696e74206d61696e6e65742062616c616e63652e",

                    "id": 75,

                    "isConstant": false,

                    "isLValue": false,

                    "isPure": true,

"kind": "string",

"lValueRequested": false,

"nodeType": "Literal",

"src": "2131:31:0",

"typeDescriptions": {

"typeIdentifier":
"t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf45",

"typeString": "literal_string \"Insufficient mainnet
balance.\""

},

"value": "Insufficient mainnet balance."

}

],

"expression": {

"argumentTypes": [

{

"typeIdentifier": "t_bool",

"typeString": "bool"

},

{

"typeIdentifier":
"t_stringliteral_a79d9bfa525ff020652d7c27b8413c0ac16067f192cc1189229771167008cf45",

"typeString": "literal_string \"Insufficient mainnet
balance.\""

}

],

"id": 68,

"name": "require",

"nodeType": "Identifier",

"overloadedDeclarations": [

4294967278,

4294967278

],

"referencedDeclaration": 4294967278,

"src": "2076:7:0",

"typeDescriptions": {

"typeIdentifier":

"t_function_require_pure$_t_bool_$_t_string_memory_ptr_$returns$__$",

"typeString": "function (bool,string memory) pure"

}

},

"id": 76,

"isConstant": false,

"isLValue": false,

"isPure": false,

"kind": "functionCall",

"lValueRequested": false,

"nameLocations": [],

"names": [],

"nodeType": "FunctionCall",

"src": "2076:87:0",

"tryCall": false,

```json
          "typeDescriptions": {

            "typeIdentifier": "t_tuple$__$",

            "typeString": "tuple()"

          }

        },

        "id": 77,

        "nodeType": "ExpressionStatement",

        "src": "2076:87:0"

      },

      {

        "expression": {

          "id": 83,

          "isConstant": false,

          "isLValue": false,

          "isPure": false,

          "lValueRequested": false,

          "leftHandSide": {

            "expression": {

              "baseExpression": {

                "id": 78,

                "name": "ledgers",

                "nodeType": "Identifier",

                "overloadedDeclarations": [],

                "referencedDeclaration": 19,

                "src": "2226:7:0",

                "typeDescriptions": {
```

"typeIdentifier":
"t_mapping$_t_address_$_t_struct$_Ledger_$7_storage_$",

"typeString": "mapping(address => struct
LiminalFinancialSystem.Ledger storage ref)"

}
},

"id": 80,

"indexExpression": {

"id": 79,

"name": "participant",

"nodeType": "Identifier",

"overloadedDeclarations": [],

"referencedDeclaration": 63,

"src": "2234:11:0",

"typeDescriptions": {

"typeIdentifier": "t_address",

"typeString": "address"

}
},

"isConstant": false,

"isLValue": true,

"isPure": false,

"lValueRequested": false,

"nodeType": "IndexAccess",

"src": "2226:20:0",

"typeDescriptions": {

                "typeIdentifier": "t_struct$_Ledger_$7_storage",

                    "typeString": "struct LiminalFinancialSystem.Ledger

storage ref"

            }

        },

        "id": 81,

        "isConstant": false,

        "isLValue": true,

        "isPure": false,

        "lValueRequested": true,

        "memberLocation": "2247:14:0",

        "memberName": "mainnetBalance",

        "nodeType": "MemberAccess",

        "referencedDeclaration": 4,

        "src": "2226:35:0",

        "typeDescriptions": {

            "typeIdentifier": "t_uint256",

            "typeString": "uint256"

        }

    },

    "nodeType": "Assignment",

    "operator": "-=",

    "rightHandSide": {

        "id": 82,

        "name": "amount",

        "nodeType": "Identifier",

                    "overloadedDeclarations": [],

                    "referencedDeclaration": 65,

                    "src": "2265:6:0",

                    "typeDescriptions": {

                        "typeIdentifier": "t_uint256",

                        "typeString": "uint256"

                    }

                },

                "src": "2226:45:0",

                "typeDescriptions": {

                    "typeIdentifier": "t_uint256",

                    "typeString": "uint256"

                }

            },

            "id": 84,

            "nodeType": "ExpressionStatement",

            "src": "2226:45:0"

        },

        {

            "expression": {

                "id": 90,

                "isConstant": false,

                "isLValue": false,

                "isPure": false,

                "lValueRequested": false,

                "leftHandSide": {

"expression": {

  "baseExpression": {

    "id": 85,

    "name": "ledgers",

    "nodeType": "Identifier",

    "overloadedDeclarations": [],

    "referencedDeclaration": 19,

    "src": "2281:7:0",

    "typeDescriptions": {

                              "typeIdentifier":

"t_mapping$_t_address_$_t_struct$_Ledger_$7_storage_$",

                          "typeString": "mapping(address => struct

LiminalFinancialSystem.Ledger storage ref)"

    }

  },

  "id": 87,

  "indexExpression": {

    "id": 86,

    "name": "participant",

    "nodeType": "Identifier",

    "overloadedDeclarations": [],

    "referencedDeclaration": 63,

    "src": "2289:11:0",

    "typeDescriptions": {

      "typeIdentifier": "t_address",

      "typeString": "address"

                }
            },
            "isConstant": false,

            "isLValue": true,

            "isPure": false,

            "lValueRequested": false,

            "nodeType": "IndexAccess",

            "src": "2281:20:0",

            "typeDescriptions": {

                "typeIdentifier": "t_struct$_Ledger_$7_storage",

                        "typeString": "struct LiminalFinancialSystem.Ledger

storage ref"

            }
        },
        "id": 88,

        "isConstant": false,

        "isLValue": true,

        "isPure": false,

        "lValueRequested": true,

        "memberLocation": "2302:14:0",

        "memberName": "testnetBalance",

        "nodeType": "MemberAccess",

        "referencedDeclaration": 6,

        "src": "2281:35:0",

        "typeDescriptions": {

            "typeIdentifier": "t_uint256",

```json
            "typeString": "uint256"
        }
    },
    "nodeType": "Assignment",
    "operator": "+=",
    "rightHandSide": {
        "id": 89,
        "name": "amount",
        "nodeType": "Identifier",
        "overloadedDeclarations": [],
        "referencedDeclaration": 65,
        "src": "2320:6:0",
        "typeDescriptions": {
            "typeIdentifier": "t_uint256",
            "typeString": "uint256"
        }
    },
    "src": "2281:45:0",
    "typeDescriptions": {
        "typeIdentifier": "t_uint256",
        "typeString": "uint256"
    }
},
"id": 91,
"nodeType": "ExpressionStatement",
"src": "2281:45:0"
```

```json
                    },
                    {
                        "expression": {
                            "arguments": [
                                {
                                    "arguments": [
                                        {
                                            "id": 96,
                                            "name": "participant",
                                            "nodeType": "Identifier",
                                            "overloadedDeclarations": [],
                                            "referencedDeclaration": 63,
                                            "src": "2398:11:0",
                                            "typeDescriptions": {
                                                "typeIdentifier": "t_address",
                                                "typeString": "address"
                                            }
                                        },
                                        {
                                            "id": 97,
                                            "name": "amount",
                                            "nodeType": "Identifier",
                                            "overloadedDeclarations": [],
                                            "referencedDeclaration": 65,
                                            "src": "2411:6:0",
                                            "typeDescriptions": {
```

```
                            "typeIdentifier": "t_uint256",

                            "typeString": "uint256"

                        }

                    },

                    {

                        "id": 98,

                        "name": "amount",

                        "nodeType": "Identifier",

                        "overloadedDeclarations": [],

                        "referencedDeclaration": 65,

                        "src": "2419:6:0",

                        "typeDescriptions": {

                            "typeIdentifier": "t_uint256",

                            "typeString": "uint256"

                        }

                    }

                ],

                "expression": {

                    "argumentTypes": [

                        {

                            "typeIdentifier": "t_address",

                            "typeString": "address"

                        },

                        {

                            "typeIdentifier": "t_uint256",

                            "typeString": "uint256"
```

                    },
                    {
                        "typeIdentifier": "t_uint256",
                        "typeString": "uint256"
                    }
                ],
                "id": 95,
                "name": "Transaction",
                "nodeType": "Identifier",
                "overloadedDeclarations": [],
                "referencedDeclaration": 14,
                "src": "2386:11:0",
                "typeDescriptions": {
                    "typeIdentifier":
"t_type$_t_struct$_Transaction_$14_storage_ptr_$",
                    "typeString": "type(struct
LiminalFinancialSystem.Transaction storage pointer)"
                }
            },
            "id": 99,
            "isConstant": false,
            "isLValue": false,
            "isPure": false,
            "kind": "structConstructorCall",
            "lValueRequested": false,
            "nameLocations": [],

"names": [],

"nodeType": "FunctionCall",

"src": "2386:40:0",

"tryCall": false,

"typeDescriptions": {

"typeIdentifier":
"t_struct$_Transaction_$14_memory_ptr",

"typeString": "struct LiminalFinancialSystem.Transaction
memory"

}

}

],

"expression": {

"argumentTypes": [

{

"typeIdentifier":
"t_struct$_Transaction_$14_memory_ptr",

"typeString": "struct LiminalFinancialSystem.Transaction
memory"

}

],

"expression": {

"id": 92,

"name": "transactions",

"nodeType": "Identifier",

"overloadedDeclarations": [],

"referencedDeclaration": 23,

"src": "2368:12:0",

"typeDescriptions": {

"typeIdentifier":
"t_array$_t_struct$_Transaction_$14_storage_$dyn_storage",

"typeString": "struct LiminalFinancialSystem.Transaction
storage ref[] storage ref"

}

},

"id": 94,

"isConstant": false,

"isLValue": false,

"isPure": false,

"lValueRequested": false,

"memberLocation": "2381:4:0",

"memberName": "push",

"nodeType": "MemberAccess",

"src": "2368:17:0",

"typeDescriptions": {

"typeIdentifier":
"t_function_arraypush_nonpayable$_t_array$_t_struct$_Transaction_$14_storage_$dyn_storage_p
tr_$_t_struct$_Transaction_$14_storage_$returns$__$attached_to$_t_array$_t_struct$_Transactio
n_$14_storage_$dyn_storage_ptr_$",

"typeString": "function (struct
LiminalFinancialSystem.Transaction storage ref[] storage pointer,struct
LiminalFinancialSystem.Transaction storage ref)"

```json
              }
            },
            "id": 100,
            "isConstant": false,
            "isLValue": false,
            "isPure": false,
            "kind": "functionCall",
            "lValueRequested": false,
            "nameLocations": [],
            "names": [],
            "nodeType": "FunctionCall",
            "src": "2368:59:0",
            "tryCall": false,
            "typeDescriptions": {
              "typeIdentifier": "t_tuple$__$",
              "typeString": "tuple()"
            }
          },
          "id": 101,
          "nodeType": "ExpressionStatement",
          "src": "2368:59:0"
        },
        {
          "eventCall": {
            "arguments": [
              {
```

```
      "id": 103,

      "name": "participant",

      "nodeType": "Identifier",

      "overloadedDeclarations": [],

      "referencedDeclaration": 63,

      "src": "2460:11:0",

      "typeDescriptions": {

         "typeIdentifier": "t_address",

         "typeString": "address"

      }

   },

   {

      "id": 104,

      "name": "amount",

      "nodeType": "Identifier",

      "overloadedDeclarations": [],

      "referencedDeclaration": 65,

      "src": "2473:6:0",

      "typeDescriptions": {

         "typeIdentifier": "t_uint256",

         "typeString": "uint256"

      }

   },

   {

      "id": 105,

      "name": "amount",
```

```
              "nodeType": "Identifier",

              "overloadedDeclarations": [],

              "referencedDeclaration": 65,

              "src": "2481:6:0",

              "typeDescriptions": {

                  "typeIdentifier": "t_uint256",

                  "typeString": "uint256"

              }

          }

      ],

      "expression": {

          "argumentTypes": [

              {

                  "typeIdentifier": "t_address",

                  "typeString": "address"

              },

              {

                  "typeIdentifier": "t_uint256",

                  "typeString": "uint256"

              },

              {

                  "typeIdentifier": "t_uint256",

                  "typeString": "uint256"

              }

          ],

          "id": 102,
```

"name": "TransactionLogged",

"nodeType": "Identifier",

"overloadedDeclarations": [],

"referencedDeclaration": 31,

"src": "2442:17:0",

"typeDescriptions": {

"typeIdentifier":

"t_function_event_nonpayable$_t_address_$_t_uint256_$_t_uint256_$returns$__$",

"typeString": "function (address,uint256,uint256)"

}

},

"id": 106,

"isConstant": false,

"isLValue": false,

"isPure": false,

"kind": "functionCall",

"lValueRequested": false,

"nameLocations": [],

"names": [],

"nodeType": "FunctionCall",

"src": "2442:46:0",

"tryCall": false,

"typeDescriptions": {

"typeIdentifier": "t_tuple$__$",

"typeString": "tuple()"

}

```json
        },
        "id": 107,
        "nodeType": "EmitStatement",
        "src": "2437:51:0"
    },
    {
        "eventCall": {
            "arguments": [
                {
                    "id": 109,
                    "name": "participant",
                    "nodeType": "Identifier",
                    "overloadedDeclarations": [],
                    "referencedDeclaration": 63,
                    "src": "2547:11:0",
                    "typeDescriptions": {
                        "typeIdentifier": "t_address",
                        "typeString": "address"
                    }
                },
                {
                    "expression": {
                        "baseExpression": {
                            "id": 110,
                            "name": "ledgers",
                            "nodeType": "Identifier",
```

                                "overloadedDeclarations": [],

                                "referencedDeclaration": 19,

                                "src": "2560:7:0",

                                "typeDescriptions": {

                                                "typeIdentifier":

"t_mapping$_t_address_$_t_struct$_Ledger_$7_storage_$",

                                        "typeString": "mapping(address => struct

LiminalFinancialSystem.Ledger storage ref)"

                                }

                        },

                        "id": 112,

                        "indexExpression": {

                                "id": 111,

                                "name": "participant",

                                "nodeType": "Identifier",

                                "overloadedDeclarations": [],

                                "referencedDeclaration": 63,

                                "src": "2568:11:0",

                                "typeDescriptions": {

                                        "typeIdentifier": "t_address",

                                        "typeString": "address"

                                }

                        },

                        "isConstant": false,

                        "isLValue": true,

                        "isPure": false,

                    "lValueRequested": false,

                    "nodeType": "IndexAccess",

                    "src": "2560:20:0",

                    "typeDescriptions": {

                      "typeIdentifier": "t_struct$_Ledger_$7_storage",

                        "typeString": "struct LiminalFinancialSystem.Ledger

storage ref"

                    }

                  },

                  "id": 113,

                  "isConstant": false,

                  "isLValue": true,

                  "isPure": false,

                  "lValueRequested": false,

                  "memberLocation": "2581:14:0",

                  "memberName": "mainnetBalance",

                  "nodeType": "MemberAccess",

                  "referencedDeclaration": 4,

                  "src": "2560:35:0",

                  "typeDescriptions": {

                    "typeIdentifier": "t_uint256",

                    "typeString": "uint256"

                  }

                },

                {

                  "expression": {

"baseExpression": {

  "id": 114,

  "name": "ledgers",

  "nodeType": "Identifier",

  "overloadedDeclarations": [],

  "referencedDeclaration": 19,

  "src": "2597:7:0",

  "typeDescriptions": {

    "typeIdentifier": "t_mapping$_t_address_$_t_struct$_Ledger_$7_storage_$",

    "typeString": "mapping(address => struct LiminalFinancialSystem.Ledger storage ref)"

  }

},

"id": 116,

"indexExpression": {

  "id": 115,

  "name": "participant",

  "nodeType": "Identifier",

  "overloadedDeclarations": [],

  "referencedDeclaration": 63,

  "src": "2605:11:0",

  "typeDescriptions": {

    "typeIdentifier": "t_address",

    "typeString": "address"

  }

                },

                "isConstant": false,

                "isLValue": true,

                "isPure": false,

                "lValueRequested": false,

                "nodeType": "IndexAccess",

                "src": "2597:20:0",

                "typeDescriptions": {

                    "typeIdentifier": "t_struct$_Ledger_$7_storage",

                        "typeString": "struct LiminalFinancialSystem.Ledger

storage ref"

                }

            },

            "id": 117,

            "isConstant": false,

            "isLValue": true,

            "isPure": false,

            "lValueRequested": false,

            "memberLocation": "2618:14:0",

            "memberName": "testnetBalance",

            "nodeType": "MemberAccess",

            "referencedDeclaration": 6,

            "src": "2597:35:0",

            "typeDescriptions": {

                "typeIdentifier": "t_uint256",

                "typeString": "uint256"

                    }

                }

            ],

            "expression": {

                "argumentTypes": [

                    {

                        "typeIdentifier": "t_address",

                        "typeString": "address"

                    },

                    {

                        "typeIdentifier": "t_uint256",

                        "typeString": "uint256"

                    },

                    {

                        "typeIdentifier": "t_uint256",

                        "typeString": "uint256"

                    }

                ],

                "id": 108,

                "name": "LedgerUpdated",

                "nodeType": "Identifier",

                "overloadedDeclarations": [],

                "referencedDeclaration": 39,

                "src": "2533:13:0",

                "typeDescriptions": {

                                                            "typeIdentifier":

"t_function_event_nonpayable$_t_address_$_t_uint256_$_t_uint256_$returns$__$",

                                    "typeString": "function (address,uint256,uint256)"

                        }

                },

                "id": 118,

                "isConstant": false,

                "isLValue": false,

                "isPure": false,

                "kind": "functionCall",

                "lValueRequested": false,

                "nameLocations": [],

                "names": [],

                "nodeType": "FunctionCall",

                "src": "2533:100:0",

                "tryCall": false,

                "typeDescriptions": {

                    "typeIdentifier": "t_tuple$__$",

                    "typeString": "tuple()"

                }

            },

            "id": 119,

            "nodeType": "EmitStatement",

            "src": "2528:105:0"

        }

    ]

},

"documentation": {

  "id": 61,

  "nodeType": "StructuredDocumentation",

  "src": "1731:256:0",

  "text": " @dev Perform a transaction, debiting the mainnet balance and crediting the testnet balance.\n @param participant The address of the participant performing the transaction.\n @param amount The amount to transfer between ledgers."

},

"functionSelector": "67844d2b",

"id": 121,

"implemented": true,

"kind": "function",

"modifiers": [],

"name": "performTransaction",

"nameLocation": "2001:18:0",

"nodeType": "FunctionDefinition",

"parameters": {

  "id": 66,

  "nodeType": "ParameterList",

  "parameters": [

    {

      "constant": false,

      "id": 63,

      "mutability": "mutable",

      "name": "participant",

      "nameLocation": "2028:11:0",

      "nodeType": "VariableDeclaration",

      "scope": 121,

      "src": "2020:19:0",

      "stateVariable": false,

      "storageLocation": "default",

      "typeDescriptions": {

         "typeIdentifier": "t_address",

         "typeString": "address"

      },

      "typeName": {

         "id": 62,

         "name": "address",

         "nodeType": "ElementaryTypeName",

         "src": "2020:7:0",

         "stateMutability": "nonpayable",

         "typeDescriptions": {

            "typeIdentifier": "t_address",

            "typeString": "address"

         }

      },

      "visibility": "internal"

   },

   {

      "constant": false,

      "id": 65,

      "mutability": "mutable",

"name": "amount",

"nameLocation": "2049:6:0",

"nodeType": "VariableDeclaration",

"scope": 121,

"src": "2041:14:0",

"stateVariable": false,

"storageLocation": "default",

"typeDescriptions": {

    "typeIdentifier": "t_uint256",

    "typeString": "uint256"

},

"typeName": {

    "id": 64,

    "name": "uint256",

    "nodeType": "ElementaryTypeName",

    "src": "2041:7:0",

    "typeDescriptions": {

        "typeIdentifier": "t_uint256",

        "typeString": "uint256"

    }

},

"visibility": "internal"

        }

    ],

"src": "2019:37:0"

},

```json
                            "returnParameters": {

                                "id": 67,

                                "nodeType": "ParameterList",

                                "parameters": [],

                                "src": "2066:0:0"

                            },

                            "scope": 146,

                            "src": "1992:648:0",

                            "stateMutability": "nonpayable",

                            "virtual": false,

                            "visibility": "external"

                        },

                        {

                            "body": {

                                "id": 134,

                                "nodeType": "Block",

                                "src": "2921:44:0",

                                "statements": [

                                    {

                                        "expression": {

                                            "baseExpression": {

                                                "id": 130,

                                                "name": "ledgers",

                                                "nodeType": "Identifier",

                                                "overloadedDeclarations": [],

                                                "referencedDeclaration": 19,
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                    "src": "2938:7:0",

                    "typeDescriptions": {

                                                    "typeIdentifier":

"t_mapping$_t_address_$_t_struct$_Ledger_$7_storage_$",

                                        "typeString": "mapping(address => struct

LiminalFinancialSystem.Ledger storage ref)"

                        }

                },

                "id": 132,

                "indexExpression": {

                    "id": 131,

                    "name": "participant",

                    "nodeType": "Identifier",

                    "overloadedDeclarations": [],

                    "referencedDeclaration": 124,

                    "src": "2946:11:0",

                    "typeDescriptions": {

                        "typeIdentifier": "t_address",

                        "typeString": "address"

                    }

                },

                "isConstant": false,

                "isLValue": true,

                "isPure": false,

                "lValueRequested": false,

                "nodeType": "IndexAccess",

"src": "2938:20:0",

"typeDescriptions": {

"typeIdentifier": "t_struct$_Ledger_$7_storage",

"typeString": "struct LiminalFinancialSystem.Ledger storage

ref"

}

},

"functionReturnParameters": 129,

"id": 133,

"nodeType": "Return",

"src": "2931:27:0"

}

]

},

"documentation": {

"id": 122,

"nodeType": "StructuredDocumentation",

"src": "2646:194:0",

"text": " @dev Getter function for a participant's ledger balances.\n
@param participant The address of the participant.\n @return Ledger memory The ledger of the
participant."

},

"functionSelector": "f7cd6af9",

"id": 135,

"implemented": true,

"kind": "function",

"modifiers": [],

"name": "getLedger",

"nameLocation": "2854:9:0",

"nodeType": "FunctionDefinition",

"parameters": {

  "id": 125,

  "nodeType": "ParameterList",

  "parameters": [

    {

      "constant": false,

      "id": 124,

      "mutability": "mutable",

      "name": "participant",

      "nameLocation": "2872:11:0",

      "nodeType": "VariableDeclaration",

      "scope": 135,

      "src": "2864:19:0",

      "stateVariable": false,

      "storageLocation": "default",

      "typeDescriptions": {

        "typeIdentifier": "t_address",

        "typeString": "address"

      },

      "typeName": {

        "id": 123,

        "name": "address",

                    "nodeType": "ElementaryTypeName",

                    "src": "2864:7:0",

                    "stateMutability": "nonpayable",

                    "typeDescriptions": {

                        "typeIdentifier": "t_address",

                        "typeString": "address"

                    }

                },

                "visibility": "internal"

            }

        ],

        "src": "2863:21:0"

    },

    "returnParameters": {

        "id": 129,

        "nodeType": "ParameterList",

        "parameters": [

            {

                "constant": false,

                "id": 128,

                "mutability": "mutable",

                "name": "",

                "nameLocation": "-1:-1:-1",

                "nodeType": "VariableDeclaration",

                "scope": 135,

                "src": "2906:13:0",

"stateVariable": false,

"storageLocation": "memory",

"typeDescriptions": {

  "typeIdentifier": "t_struct$_Ledger_$7_memory_ptr",

  "typeString": "struct LiminalFinancialSystem.Ledger"

},

"typeName": {

  "id": 127,

  "nodeType": "UserDefinedTypeName",

  "pathNode": {

    "id": 126,

    "name": "Ledger",

    "nameLocations": [

      "2906:6:0"

    ],

    "nodeType": "IdentifierPath",

    "referencedDeclaration": 7,

    "src": "2906:6:0"

  },

  "referencedDeclaration": 7,

  "src": "2906:6:0",

  "typeDescriptions": {

    "typeIdentifier": "t_struct$_Ledger_$7_storage_ptr",

    "typeString": "struct LiminalFinancialSystem.Ledger"

  }

},

                    "visibility": "internal"

                }

            ],

            "src": "2905:15:0"

        },

        "scope": 146,

        "src": "2845:120:0",

        "stateMutability": "view",

        "virtual": false,

        "visibility": "public"

    },

    {

        "body": {

            "id": 144,

            "nodeType": "Block",

            "src": "3178:43:0",

            "statements": [

                {

                    "expression": {

                        "expression": {

                            "id": 141,

                            "name": "transactions",

                            "nodeType": "Identifier",

                            "overloadedDeclarations": [],

                            "referencedDeclaration": 23,

                            "src": "3195:12:0",

"typeDescriptions": {

"typeIdentifier":

"t_array$_t_struct$_Transaction_$14_storage_$dyn_storage",

"typeString": "struct LiminalFinancialSystem.Transaction

storage ref[] storage ref"

}

},

"id": 142,

"isConstant": false,

"isLValue": false,

"isPure": false,

"lValueRequested": false,

"memberLocation": "3208:6:0",

"memberName": "length",

"nodeType": "MemberAccess",

"src": "3195:19:0",

"typeDescriptions": {

"typeIdentifier": "t_uint256",

"typeString": "uint256"

}

},

"functionReturnParameters": 140,

"id": 143,

"nodeType": "Return",

"src": "3188:26:0"

}

          ]

        },

        "documentation": {

          "id": 136,

          "nodeType": "StructuredDocumentation",

          "src": "2971:140:0",

          "text": " @dev Getter function for total transactions (for demonstration).\n
@return uint256 The total number of transactions."

        },

        "functionSelector": "b5c604ff",

        "id": 145,

        "implemented": true,

        "kind": "function",

        "modifiers": [],

        "name": "getTotalTransactions",

        "nameLocation": "3125:20:0",

        "nodeType": "FunctionDefinition",

        "parameters": {

          "id": 137,

          "nodeType": "ParameterList",

          "parameters": [],

          "src": "3145:2:0"

        },

        "returnParameters": {

          "id": 140,

          "nodeType": "ParameterList",

"parameters": [

  {

     "constant": false,

     "id": 139,

     "mutability": "mutable",

     "name": "",

     "nameLocation": "-1:-1:-1",

     "nodeType": "VariableDeclaration",

     "scope": 145,

     "src": "3169:7:0",

     "stateVariable": false,

     "storageLocation": "default",

     "typeDescriptions": {

        "typeIdentifier": "t_uint256",

        "typeString": "uint256"

     },

     "typeName": {

        "id": 138,

        "name": "uint256",

        "nodeType": "ElementaryTypeName",

        "src": "3169:7:0",

        "typeDescriptions": {

           "typeIdentifier": "t_uint256",

           "typeString": "uint256"

        }

     },

```json
                    "visibility": "internal"

                }
            ],
            "src": "3168:9:0"

        },
        "scope": 146,
        "src": "3116:105:0",
        "stateMutability": "view",
        "virtual": false,
        "visibility": "public"

    }
  ],
  "scope": 147,
  "src": "393:2830:0",
  "usedErrors": [],
  "usedEvents": [
    31,
    39
  ]

}
    ],
    "src": "32:3191:0"

},
"id": 0

}
}
```

```
        }
    }
]
```