Blockchain Lab

Assignment-5

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```solidity
//SPDX-License-Identifier: MIT

pragma solidity ^0.8.0;

contract Lottery{
    address public manager;
    address[] public players;

    function lottery() public{        ⛽ 24410 gas
        manager = msg.sender;
    }

    function enter() public payable{        ⛽ 48764 gas
        require(msg.value > .01 ether);
        players.push(msg.sender);
    }

    function random() private view returns(uint){        ⛽ infinite gas
        return uint(keccak256(abi.encode(block.timestamp, players)));
    }

    function winner() public restricted(){        ⛽ infinite gas
        uint index = random() % players.length;
        payable(players[index]).transfer(address(this).balance);
        players = new address[](0);
    }

    modifier restricted(){
        require(msg.sender == manager);
        _;
    }
}
```

Code

Deployed/Unpinned Contracts 🗑

> LOTTERY AT 0X990...6C5FC (BL ⧉ 📌 ✕

⌄ LOTTERY AT 0X2D0...57743 (BL ⧉ 📌 ✕

Balance: 0 ETH ✎

enter

lottery

winner

manager

| players | uint256 | ⌄ |

Low level interactions ℹ

CALLDATA

| | Transact |

Deployment