```
//SPDX-License-Identifier: GPL-3.0
pragma solidity \geq =0.5.0 < 0.9.0;
contract Lottery{
  address payable[] public players;
  address public manager;
  constructor(){
     manager = msg.sender;
  }
  receive () payable external{
     require(msg.value == 0.1 ether);
     players.push(payable(msg.sender));
  }
  function getBalance() public view returns(uint){
     require(msg.sender == manager);
     return address(this).balance;
  }
  function random() internal view returns(uint){
    return uint(keccak256(abi.encodePacked(block.difficulty, block.timestamp, players.length)));
  }
  function pickWinner() public{
     require(msg.sender == manager);
     require (players.length >= 3);
     uint r = random();
     address payable winner;
     uint index = r % players.length;
     winner = players[index];
     winner.transfer(getBalance());
```

```
players = new address payable[](0);
}
```