

```

1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 // One shouldn't use any values from inside the blockchain as randomness
5 // Use something like Chainlink VRF for verifiable randomness
6 // https://docs.chain.link/docs/get-a-random-number/
7
8 contract BadRNG {
9     address payable[] private s_players;
10
11     function enterRaffle() external payable {
12         require(msg.value >= 1000000000000000000);
13         s_players.push(payable(msg.sender));
14     }
15
16     function pickWinner() external {
17         uint256 randomWinnerIndex = uint256(
18             keccak256(abi.encodePacked(block.difficulty, msg.sender))
19         );
20         address winner = s_players[randomWinnerIndex % s_players.length];
21         (bool success, ) = winner.call{value: address(this).balance}("");
22         require(success, "Transfer failed");
23     }
24 }

```