



# Coinsult

## Advanced Manual Smart Contract Audit



**Project:** Legend of Empires

**Website:** <https://loegame.io>

● **Low-Risk**

4 low-risk code  
issues found

● **Medium-Risk**

0 medium-risk code  
issues found

● **High-Risk**

0 high-risk code  
issues found

### Contract Address

0x691b9576D1310A0bA7cf3Aed9e17917d97367087

Disclaimer: Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

# Disclaimer

Coinsult is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

The information provided in this audit is for informational purposes only and should not be considered investment advice. Coinsult does not endorse, recommend, support or suggest to invest in any project.

Coinsult can not be held responsible for when a project turns out to be a rug-pull, honeypot or scam.

# Tokenomics

Rank	Address	Quantity (Token)	Percentage
1	0xa9700ecfee4d1dfb977b27482bed7faee9b1d280	1,000,000,000	100.0000%

# Source Code

Coinsult was comissioned by Legend of Empires to perform an audit based on the following smart contract:

<https://bscscan.com/address/0x691b9576D1310A0bA7cf3Aed9e17917d97367087#code>

# Manual Code Review

In this audit report we will highlight all these issues:

## Low-Risk

4 low-risk code  
issues found

## Medium-Risk

0 medium-risk code  
issues found

## High-Risk

0 high-risk code  
issues found

The detailed report continues on the next page...

● **Low-Risk:** Could be fixed, will not bring problems.

## Divide before multiply

Solidity integer division might truncate. As a result, performing multiplication before division can sometimes avoid loss of precision.

```
if(taxStatus==true && sender==taxAddress && tax>0){  
    _balances[sender] = _balances[sender].sub(amount, "BEP20: transfer amount exceeds balance");  
    _balances[masterWallet] = _balances[masterWallet].add(amount/100*tax);  
    _balances[recipient] = _balances[recipient].add(amount/100*(100-tax));  
}
```

## Recommendation

Consider ordering multiplication before division.

## Exploit scenario

```
contract A {  
    function f(uint n) public {  
        coins = (oldSupply / n) * interest;  
    }  
}
```

If  $n$  is greater than  $oldSupply$ ,  $coins$  will be zero. For example, with  $oldSupply = 5$ ;  $n = 10$ ,  $interest = 2$ ,  $coins$  will be zero. If  $(oldSupply * interest / n)$  was used,  $coins$  would have been 1. In general, it's usually a good idea to re-arrange arithmetic to perform multiplication before division, unless the limit of a smaller type makes this dangerous.

● **Low-Risk:** Could be fixed, will not bring problems.

## Missing events arithmetic

Detect missing events for critical arithmetic parameters.

```
function update_tax_Address(address _newAddress) public onlyOwner{
    require(_newAddress != address(0), "BEP20: new address must not be zero address");
    taxAddress = _newAddress;
}
```

## Recommendation

Emit an event for critical parameter changes.

## Exploit scenario

```
contract C {

    modifier onlyAdmin {
        if (msg.sender != owner) throw;
        _;
    }

    function updateOwner(address newOwner) onlyAdmin external {
        owner = newOwner;
    }
}
```

updateOwner() has no event, so it is difficult to track off-chain changes in the buy price.

● **Low-Risk:** Could be fixed, will not bring problems.

## Boolean equality

Detects the comparison to boolean constants.

```
function _transfer(address sender, address recipient, uint256 amount) internal {
    require(tax0){
        _balances[sender] = _balances[sender].sub(amount, "BEP20: transfer amount exceeds balance");
        _balances[masterWallet] = _balances[masterWallet].add(amount/100*tax);
        _balances[recipient] = _balances[recipient].add(amount/100*(100-tax));
    }else{
        _balances[sender] = _balances[sender].sub(amount, "BEP20: transfer amount exceeds balance");
        _balances[recipient] = _balances[recipient].add(amount);
    }

    emit Transfer(sender, recipient, amount);
}
```

## Recommendation

Remove the equality to the boolean constant.

## Exploit scenario

```
contract A {
    function f(bool x) public {
        // ...
        if (x == true) { // bad!
            // ...
        }
        // ...
    }
}
```

Boolean constants can be used directly and do not need to be compare to true or false.

● **Low-Risk:** Could be fixed, will not bring problems.

## Redundant Statements

Detect the usage of redundant statements that have no effect.

```
function _msgData() internal view returns (bytes memory) {  
    this; // silence state mutability warning without generating bytecode - see https://github.com/ethc  
    return msg.data;  
}
```

## Recommendation

Remove redundant statements if they congest code but offer no value.

## Exploit scenario

```
contract RedundantStatementsContract {  
  
    constructor() public {  
        uint; // Elementary Type Name  
        bool; // Elementary Type Name  
        RedundantStatementsContract; // Identifier  
    }  
  
    function test() public returns (uint) {  
        uint; // Elementary Type Name  
        assert; // Identifier  
        test; // Identifier  
        return 777;  
    }  
}
```

Each commented line references types/identifiers, but performs no action with them, so no code will be generated for such statements and they can be removed.

## Owner privileges

- Owner cannot set fees higher than 25%
- Owner cannot pause trading
- Owner cannot change max transaction amount

## Extra notes by the team

No notes

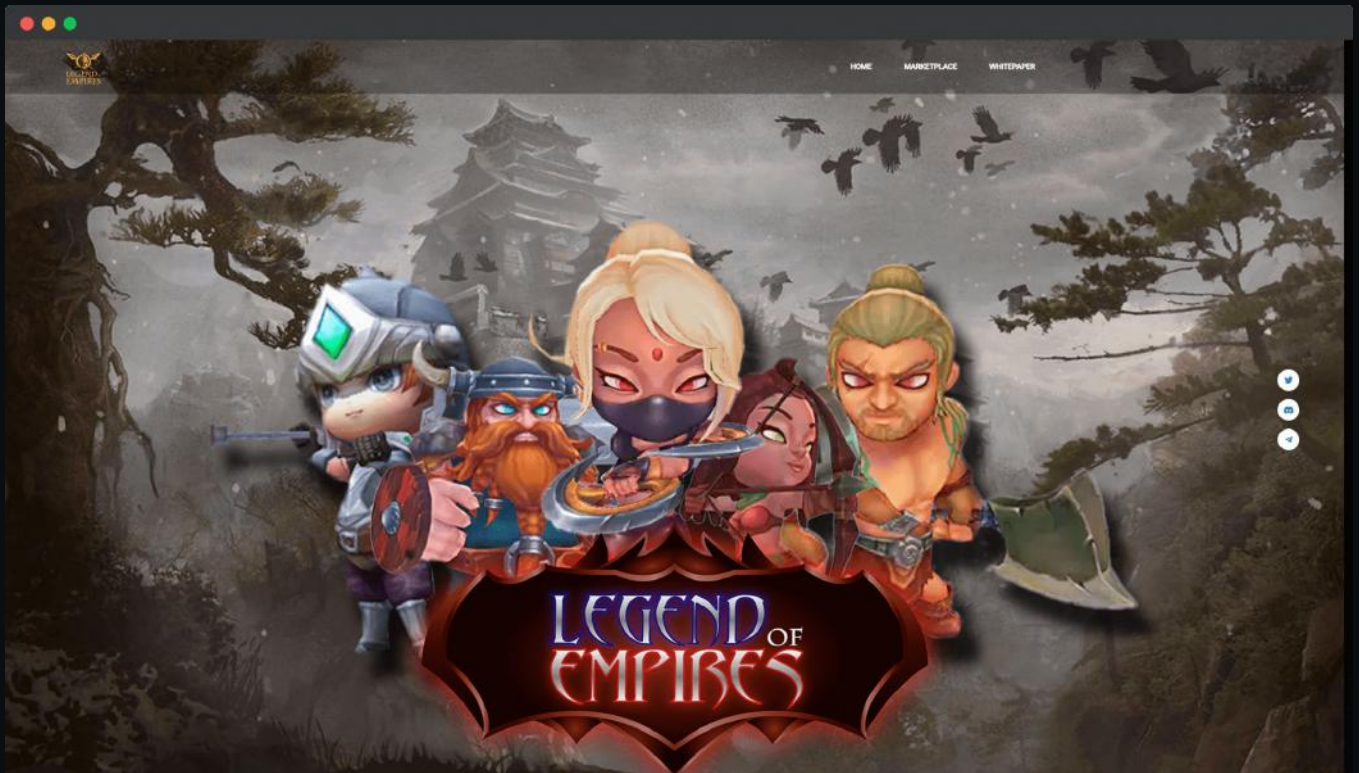


# Contract Snapshot

```
contract BEP20Token_SleepToEarn is Context, IBEP20, Ownable {
    using SafeMath for uint256;
    mapping (address => uint256) private _balances;
    mapping (address => mapping (address => uint256)) private _allowances;
    uint256 private _totalSupply;
    uint8 private _decimals;
    string private _symbol;
    string private _name;
    address public masterWallet;
    uint public tax=2;
    bool public taxStatus = true;
    address public taxAddress;
```

# Website Review

Coinsult checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.



- Mobile Friendly
- Does not contain jQuery errors
- SSL Secured
- No major spelling errors

## Project Overview

● Not KYC verified by Coinsult

**AUDITED**  
BY COINSULT.NET

