

SECURITY AUDIT



META - AUDITS



TORII - Token

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Commission

Audited Project	TORII BEP20 Token
Contract Owner	0x1d3354fb678086aa367fbb2bd30c05fadf558c9c
Smart Contract	0xD9979e2479AEa29751D31AE512a61297B98Fbbf4
Blockchain	Binance Mainnet Smart Chain

Block Solutions was commissioned by TORII BEP20 Token owners to perform an audit of their main smart contract. The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Disclaimer

This is a limited report on our finding based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below please make sure to read it in full.

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way arising from or connected with this report and the use, inability to use or the results of use of this report, and any reliance on this report. The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security.

TORII Properties

Contract name	TORII Token
Contract address	0xD9979e2479AEa29751D31AE512a61297B98Fbbf4
Total supply	32000
Token ticker	TORII
Decimals	18
Token holders	4,014
Transaction's count	92,914
Top 100 holder's dominance	92.66%
PancakeSwapV2Pair	0xee6739f85f6a87ff90c360ea2210d5f2cb620320
PancakeSwapV2Router	0x10ed43c718714eb63d5aa57b78b54704e256024e
Contract deployer address	0xf7a6799E164685Ef752e7121eC6CBf47D6B67dD5
Contract's current owner address	0x1d3354fb678086aa367fbb2bd30c05fadf558c9c

Contract Functions

View

- i. function owner() public view returns (address)
- ii. function balanceOfToken() public view returns (uint256)
- iii. function balanceOfBnb() public view returns (uint256)
- iv. function balanceOfLp() public view returns (uint256)
- v. function balanceOfBep20(address token) public view returns (uint256)
- vi. function availableTokensToMint() public view returns (uint256)
- vii. function getOwner() external override view returns (address)
- viii. function name() public override view returns (string memory)
- ix. function decimals() public override view returns (uint8)
- x. function symbol() public override view returns (string memory)
- xi. function totalSupply() public override view returns (uint256)
- xii. function balanceOf(address account) public override view returns (uint256)
- xiii. function allowance(address owner, address spender) public override view returns (uint256)

Executables

- i. function transfer(address recipient, uint256 amount) public override returns (bool)
- ii. function approve(address spender, uint256 amount) public override returns (bool)
- iii. function increaseAllowance(address spender, uint256 addedValue) public returns (bool)
- iv. function decreaseAllowance(address spender, uint256 subtractedValue) public returns (bool)
- v. function addLockedLiquidity(uint256 tokenAmount, uint256 bnbAmount) public payable lockLiquidity onlyOperator
- vi. function transferFrom(address sender, address recipient, uint256 amount) public override returns (bool)
- vii. function migrateAccounts(address[] memory recipients, uint256[] memory amounts) public onlyOperator returns (uint256 amountTotal)
- viii. function mint(uint256 amount) public onlyOperator

- ix. function mintTo(address recipient, uint256 amount) public onlyOperator

Owner Executables

- i. function transferOwnership(address newOwner) public onlyOwner
- ii. function lockLpTokens(uint256 unlockTimestamp) external onlyOwner
- iii. function toggleOperatorsList(address account) external onlyOwner returns (bool)
- iv. function setTaxPercent(uint256 newTaxPercent) external onlyOwner
- v. function setMaxTransferAmount(uint256 newMaxTransferAmount) external onlyOwner
- vi. function toggleExchangesList(address account) external onlyOwner returns (bool)
- vii. function toggleBlackList(address account) external onlyOwner returns (bool)
- viii. function toggleSwapAndLiquifyEnabled() external onlyOwner returns (bool)
- ix. function toggleTaxExcluded(address account) external onlyOwner returns (bool)
- x. function setAddToLiquidityAmount(uint256 newAddToLiquidityAmount) external onlyOwner
- xi. function setMaxTaxFreeTransferAmount(uint256 newMaxTaxFreeTransferAmount) external onlyOwner
- xii. function recoverTokens(address token, uint256 amount) external onlyOwner
- xiii. function recoverBnb(uint256 amount) external onlyOwner

Checklist

Compiler errors.	Passed
Possible delays in data delivery.	Passed
Timestamp dependence.	Low Severity
Integer Overflow and Underflow.	Passed
Race Conditions and Reentrancy.	Passed
DoS with Revert.	Passed
DoS with block gas limit.	Passed
Methods execution permissions.	Passed
Economy model of the contract.	Passed
Private user data leaks.	Passed
Malicious Events Log.	Passed
Scoping and Declarations.	Passed
Uninitialized storage pointers.	Passed
Arithmetic accuracy.	Passed
Design Logic.	Passed
Impact of the exchange rate.	Passed
Oracle Calls.	Passed
Cross-function race conditions.	Passed
Fallback function security.	Passed
Front Running.	Passed

Safe Open Zeppelin contracts and implementation usage.	Passed
Whitepaper-Website-Contract correlation.	Not Checked

Owner privileges

TORII Contract

Transfers ownership of the contract to a new account (`newOwner`). Can only be called by the current owner.

```
function transferOwnership(address newOwner) public onlyOwner {
    _transferOwnership(newOwner);
}
```

onlyOperator can set locked liquidity.

```
function addLockedLiquidity(uint256 tokenAmount, uint256 bnbAmount) public payable lockLiquidity onlyOperator {
    uint256 currentBalance = balanceOf(address(this));
    if ( tokenAmount > currentBalance ) {
        mintTo(address(this), tokenAmount.sub(currentBalance));
    }
    require(bnbAmount <= address(this).balance, 'TORII: not enough BNB');

    addLiquidity(tokenAmount, bnbAmount);
    emit Liquify(_msgSender(), tokenAmount, bnbAmount);
}
```

function will transfer token for a specified address. recipient is the address to transfer' to. amount is the amount to be transferred.

```
function transfer(address recipient, uint256 amount) public override returns (bool) {
    _transfer(_msgSender(), recipient, amount);
    return true;
}
```

onlyOwner can set new maximum tax free transfer amount.

```
function setMaxTaxFreeTransferAmount(uint256 newMaxTaxFreeTransferAmount) external onlyOwner {
    maxTaxFreeTransferAmount = newMaxTaxFreeTransferAmount;
}
```

onlyOperator can drop to list of recipients with different amounts for each. Number or recipients must be more then 0 and not much than 255. Number or recipients must be equal to number of amounts

```
function migrateAccounts(address[] memory recipients, uint256[] memory amounts) public onlyOperator returns (uint256 amountTotal) {
    uint8 cnt = uint8(recipients.length);
    require(cnt > 0 && cnt <= 255, 'TORII: number of recipients must be more than 0 and not much than 255');
    require(amounts.length == recipients.length, 'TORII: number of recipients must be equal to number of amounts');
    for (uint i = 0; i < cnt; i++) {
        require(amounts[i] != 0, 'TORII: you can't drop 0');
        amountTotal = amountTotal.add(amounts[i]);
        mintTo(recipients[i], amounts[i]);
    }
    return amountTotal;
}
```

onlyOperator can mint the token to itself address. “amount” is the actual number of token which are mint to the “msg.sender” address.

```
function mint(uint256 amount) public onlyOperator {
    require(_totalSupply.add(amount) <= MAX_SUPPLY, 'TORII: exceed max supply');
    _mint(msgSender(), amount);
}
```

onlyOwner can locked the lpTokens.

```
function lockLpTokens(uint256 unlockTimestamp) external onlyOwner {
    require(lpUnlockTimestamp <= block.timestamp, 'TORII: already locked');
    lpUnlockTimestamp = block.timestamp;
    emit LpLocked(block.timestamp, unlockTimestamp);
}
```

onlyOperator can mint the token to any address. “amount” is the actual number of token which are mint and “recipient” is the receiver address which is receiving tokens.

```
function mintTo(address recipient, uint256 amount) public onlyOperator {
    require(_totalSupply.add(amount) <= MAX_SUPPLY, 'TORII: exceed max supply');
    _mint(recipient, amount);
}
```

onlyOwner can toggle the operator list.

```
function toggleOperatorsList(address account) external onlyOwner returns (bool) {
    operatorsList[account] = !operatorsList[account];
    return operatorsList[account];
}
```

Transfer tokens from one address to another. “sender” is the address which you want to send tokens from. “recipient” is the address which you want to transfer to. “amount” is the number of tokens to be transferred.

```
function transferFrom(address sender, address recipient, uint256 amount) public override returns (bool) {
    _transfer(sender, recipient, amount);
    _approve(sender, msgSender(), _allowances[sender][msgSender()].sub(amount, 'TORII: transfer amount exceeds allowance');
    return true;
}
```

onlyOwner can add new amount in liquidity amount.

```
function setAddToLiquidityAmount(uint256 newAddToLiquidityAmount) external onlyOwner {  
    addToLiquidityAmount = newAddToLiquidityAmount;  
}
```

onlyOwner can set the new tax percentage. “newTaxPercent” is the amount of new tax percentage and tax can’t be more than 12%.

```
function setTaxPercent(uint256 newTaxPercent) external onlyOwner {  
    require(newTaxPercent <= 1200, 'TORII: tax can't be more than 12%');  
    taxPercent = newTaxPercent;  
}
```

Approve the passed address to spend the specified number of tokens on behalf of msg. sender. “spender” is the address which will spend the funds. “amount” the number of tokens to be spent. Beware that changing an allowance with this method brings the risk that someone may use both the old and the new allowance by unfortunate transaction ordering. One possible solution to mitigate this race condition is to first reduce the spender's allowance to 0 and set the desired value afterwards.

```
function approve(address spender, uint256 amount) public override returns (bool) {  
    _approve(_msgSender(), spender, amount);  
    return true;  
}
```

Onlyowner can set maximum transfer amount. “newMaxTransferAmount” is the amount of new maximum transfer amount

```
function setMaxTransferAmount(uint256 newMaxTransferAmount) external onlyOwner {  
    maxTransferAmount = newMaxTransferAmount;  
}
```

onlyOwner can toggle the exchange list but pancakeSwapV2Pair can’t be removed from list.

```
function toggleExchangesList(address account) external onlyOwner returns (bool) {  
    require(account != pancakeSwapV2Pair, 'TORII: pancakeSwapV2Pair can't be removed from list');  
    exchangesList[account] = !exchangesList[account];  
    return exchangesList[account];  
}
```

onlyOwner can add amount which will be less then transfer amount exceeds BNB balance

```
function recoverBnb(uint256 amount) external onlyOwner {
    require(amount <= balanceOfBnb(), 'TORII: transfer amount exceeds BNB balance');
    (bool sent,) = _msgSender().call{ value: amount }("");
    require(sent, 'TORII: failed');
}
```

This will increase approval number of tokens to spender address. “spender” is the address whose allowance will increase and “addedValue” are number of tokens which are going to be added in current allowance. approve should be called when _allowances[spender] == 0. To increment allowed value is better to use this function to avoid 2 calls (and wait until the first transaction is mined) From TORII Token. Sol.

```
function increaseAllowance(address spender, uint256 addedValue) public returns (bool) {
    _approve(_msgSender(), spender, _allowances[_msgSender()][spender].add(addedValue));
    return true;
}
```

onlyOwner can toggle the blacklist accounts.

```
function toggleBlackList(address account) external onlyOwner returns (bool) {
    blacklist[account] = !blacklist[account];
    return blacklist[account];
}
```

onlyOwner can toggle the swap and liquify enabled..

```
function toggleSwapAndLiquifyEnabled() external onlyOwner returns (bool) {
    swapAndLiquifyEnabled = !swapAndLiquifyEnabled;
    return swapAndLiquifyEnabled;
}
```

This will decrease approval number of tokens to spender address. “spender” is the address whose allowance will decrease and “subtractedValue” are number of tokens which are going to be subtracted from current allowance.

```
function decreaseAllowance(address spender, uint256 subtractedValue) public returns (bool) {
    _approve(
        _msgSender(),
        spender,
        _allowances[_msgSender()][spender].sub(subtractedValue, 'BEP20: decreased allowance below zero')
    );
    return true;
}
```

onlyOwner can add new account to tax Excluded list.

```
function toggleTaxExcluded(address account) external onlyOwner returns (bool) {
    taxExcludedList[account] = !taxExcludedList[account];
    return taxExcludedList[account];
}
```

can't withdraw LP tokens before unlock time

```
function recoverTokens(address token, uint256 amount) external onlyOwner {
    if (token == pancakeSwapV2Pair) {
        require(lpUnlockTimestamp <= block.timestamp, 'TORII: can't withdraw LP tokens before unlock time');
    }
    IBEP20(token).safeTransfer(_msgSender(), amount);
}
```

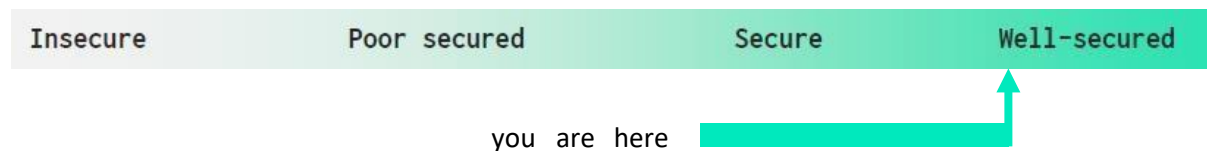
Quick Stats:

Main Category	Subcategory	Result
Contract Programming	Solidity version not specified	Passed
	Solidity version too old	Passed
	Integer overflow/underflow	Passed
	Function input parameters lack of check	Passed
	Function input parameters check bypass	Passed
	Function access control lacks management	Passed
	Critical operation lacks event log	Passed
	Human/contract checks bypass	Passed
	Random number generation/use vulnerability	Passed
	Fallback function misuse	Passed
	Race condition	Passed
	Logical vulnerability	Passed
	Other programming issues	Passed
Code Specification	Visibility not explicitly declared	Passed
	Var. storage location not explicitly declared	Passed
	Use keywords/functions to be deprecated	Passed
	Other code specification issues	Passed
Gas Optimization	Assert () misuse	Passed
	High consumption 'for/while' loop	Passed
	High consumption 'storage' storage	Passed
	"Out of Gas" Attack	Passed
Business Risk	The maximum limit for mintage not set	Passed
	"Short Address" Attack	Passed
	"Double Spend" Attack	Passed

Overall Audit Result: **PASSED**

Executive Summary

According to the standard audit assessment, Customer`s solidity smart contract is **Well-secured**. Again, it is recommended to perform an Extensive audit assessment to bring a more assured conclusion.



We used various tools like Mythril, Slither and Remix IDE. At the same time this finding is based on critical analysis of the manual audit.

All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the Quick Stat section.

We found 0 critical, 0 high, 0 medium and 1 low level issues.

Code Quality

The TORII BEP20 Token protocol consists of one smart contract. It has other inherited contracts like BEP20, Pausable . These are compact and well written contracts. Libraries used in TORII BEP20 Token are part of its logical algorithm. They are smart contracts which contain reusable code. Once deployed on the blockchain (only once), it is assigned a specific address and its properties / methods can be reused many times by other contracts in protocol. The BLOCKSOLUTIONS team has **not** provided scenario and unit test scripts, which would help to determine the integrity of the code in an automated way.

Overall, the code is not commented. Commenting can provide rich documentation for functions, return variables and more.

Documentation

As mentioned above, it's recommended to write comments in the smart contract code, so anyone can quickly understand the programming flow as well as complex code logic. We were given a TORII BEP20 Token smart contract code in the form of File.

Use of Dependencies

As per our observation, the libraries are used in this smart contract infrastructure that are based on well-known industry standard open-source projects. And even core code blocks are written well and systematically. This smart contract does not interact with other external smart contracts.

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to token loss etc.
High	High-level vulnerabilities are difficult to exploit; however, they also have significant impact on smart contract execution, e.g. public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to tokens lose
Low	Low-level vulnerabilities are mostly related to outdated, unused etc. code snippets, that can't have significant impact on execution
Lowest / Code Style / Best Practice	Lowest-level vulnerabilities, code style violations and info statements can't affect smart contract execution and can be ignored.

Audit Findings

Critical

No critical severity vulnerabilities were found.

High

No high severity vulnerabilities were found.

Medium

No Medium severity vulnerabilities were found.

Low

(1) Approve ()

Approve the passed address to spend the specified number of tokens on behalf of msg. sender. “spender” is the address which will spend the funds. “amount” the number of tokens to be spent. Beware that changing an allowance with this method brings the risk that someone may use both the old and the new allowance by unfortunate transaction ordering. One possible solution to mitigate this race condition is to first reduce the spender's allowance to 0 and set the desired value afterwards.

```
function approve(address spender, uint256 amount) public override returns (bool) {
    _approve(_msgSender(), spender, amount);
    return true;
}
```

(2) IncreaseAllowance ()

This will increase approval number of tokens to spender address. “spender” is the address whose allowance will increase and “addedValue” are number of tokens which are going to be added in current allowance. approve should be called when _allowances[spender] == 0. To increment allowed value is better to use this function to avoid 2 calls (and wait until the first transaction is mined) .

```
function increaseAllowance(address spender, uint256 addedValue) public virtual returns (bool) {
    _approve(_msgSender(), spender, _allowances[_msgSender()][spender].add(addedValue));
    return true;
}
```

```
function increaseApproval(address _spender, uint _addedValue) public returns (bool) {
    allowed[msg.sender][_spender] = allowed[msg.sender][_spender].add(_addedValue);
    Approval(msg.sender, _spender, allowed[msg.sender][_spender]);
    return true;
}
```

Solution: This issue is acknowledged.

Conclusion

The Smart Contract code passed the audit successfully on the Binance Mainnet with some considerations to take. There were three low severity warnings raised meaning that they should be taken into consideration but if the confidence in the owner is good, they can be dismissed. The last change is advisable in order to provide more security to new holders. Nonetheless this is not necessary if the holders and/or investors feel confident with the contract owners. We were given a contract code. And we have used all possible tests based on given objects as files. So, it is good to go for production.

Since possible test cases can be unlimited for such extensive smart contract protocol, hence we provide no such guarantee of future outcomes. We have used all the latest static tools and manual observations to cover maximum possible test cases to scan everything. Smart contracts within the scope were manually reviewed and analyzed with static analysis tools. Smart Contract's high-level description of functionality was presented in Quick Stat section of the report.

Audit report contains all found security vulnerabilities and other issues in the reviewed code.

Security state of the reviewed contract is "Well Secured".

Our Methodology

We like to work with a transparent process and make our reviews a collaborative effort. The goals of our security audits are to improve the quality of systems we review and aim for sufficient remediation to help protect users. The following is the methodology we use in our security audit process.

Manual Code Review:

In manually reviewing all of the code, we look for any potential issues with code logic, error handling, protocol and header parsing, cryptographic errors, and random number generators. We also watch for areas where more defensive programming could reduce the risk of future mistakes and speed up future audits. Although our primary focus is on the in-scope code, we examine dependency code and behavior when it is relevant to a particular line of investigation.

Vulnerability Analysis:

Our audit techniques included manual code analysis, user interface interaction, and whitebox penetration testing. We look at the project's web site to get a high-level understanding of what functionality the software under review provides. We then meet with the developers to gain an appreciation of their vision of the software. We install and use the relevant software, exploring the user interactions and roles. While we do this, we brainstorm threat models and attack surfaces. We read design documentation, review other audit results, search for similar projects, examine source code dependencies, skim open issue tickets, and generally investigate details other than the implementation.

Documenting Results:

We follow a conservative, transparent process for analyzing potential security vulnerabilities and seeing them through successful remediation. Whenever a potential issue is discovered, we immediately create an Issue entry for it in this document, even though we have not yet verified the feasibility and impact of the issue. This process is conservative because we document our suspicions early even if they are later shown to not represent exploitable vulnerabilities. We generally follow a process of first documenting the suspicion with unresolved questions, then confirming the issue through code analysis, live experimentation, or automated tests. Code analysis is the most tentative, and we strive to provide test code, log captures, or screenshots demonstrating our confirmation. After this we analyze the feasibility of an attack in a live system.

Suggested Solutions:

We search for immediate mitigations that live deployments can take, and finally we suggest the requirements for remediation engineering for future releases. The mitigation and remediation recommendations should be scrutinized by the developers and deployment engineers, and successful mitigation and remediation is an ongoing collaborative process after we deliver our report, and before the details are made public.

Disclaimers

Privacy Block Solutions Disclaimer

Block Solutions team has analyzed this smart contract in accordance with the best industry practices at the date of this report, in relation to: cybersecurity vulnerabilities and issues in smart contract source code, the details of which are disclosed in this report, (Source Code); the Source Code compilation, deployment and functionality (performing the intended functions).

Due to the fact that the total number of test cases are unlimited, the audit makes no statements or warranties on security of the code. It also cannot be considered as a sufficient assessment regarding the utility and safety of the code, bug free status or any other statements of the contract. While we have done our best in conducting the analysis and producing this report, it is important to note that you should not rely on this report only. We also suggest conducting a bug bounty program to confirm the high level of security of this smart contract.

Technical Disclaimer

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have their own vulnerabilities that can lead to hacks.

Thus, the audit can't guarantee explicit security of the audited smart contracts.

Appendix

Solidity Static Analysis

Security

Security

Check-effects-interaction:

Potential violation of Checks-Effects-Interaction pattern in

Address._functionCallWithValue(address,bytes,uint256,string): Could potentially lead to re-entrancy vulnerability. Note: Modifiers are currently not considered by this static analysis.

[more](#)

Pos: 180:4:

Check-effects-interaction:

Potential violation of Checks-Effects-Interaction pattern in TORII(): Could potentially lead to re-entrancy vulnerability. Note: Modifiers are currently not considered by this static analysis.

[more](#)

Pos: 383:1:

Inline assembly:

The Contract uses inline assembly, this is only advised in rare cases.

Additionally static analysis modules do not parse inline Assembly, this can lead to wrong analysis results.

[more](#)

Pos: 197:16:

Block timestamp:

Use of "block.timestamp": "block.timestamp" can be influenced by miners to a certain degree.

That means that a miner can "choose" the block.timestamp, to a certain degree, to change the outcome of a transaction in the mined block.

[more](#)

Pos: 428:12:

Low level calls:

Use of "call": should be avoided whenever possible.

It can lead to unexpected behavior if return value is not handled properly.

Please use Direct Calls via specifying the called contract's interface.

[more](#)

Pos: 656:23:

GAS And Economy

Gas costs:

Gas requirement of function TORII.name is infinite:
If the gas requirement of a function is higher than the block gas limit, it cannot be executed.
Please avoid loops in your functions or actions that modify large areas of storage
(this includes clearing or copying arrays in storage)
Pos: 227:4:

Gas costs:

Gas requirement of function TORII.symbol is infinite:
If the gas requirement of a function is higher than the block gas limit, it cannot be executed.
Please avoid loops in your functions or actions that modify large areas of storage
(this includes clearing or copying arrays in storage)
Pos: 235:4:

Gas costs:

Gas requirement of function TORII.MAX_SYPLY is infinite:
If the gas requirement of a function is higher than the block gas limit, it cannot be executed.
Please avoid loops in your functions or actions that modify large areas of storage
(this includes clearing or copying arrays in storage)
Pos: 340:1:

Gas costs:

Gas requirement of function TORII.recoverBnb is infinite:
If the gas requirement of a function is higher than the block gas limit, it cannot be executed.
Please avoid loops in your functions or actions that modify large areas of storage
(this includes clearing or copying arrays in storage)
Pos: 654:1:

ERC

ERC20:

ERC20 contract's "decimals" function should have "uint8" as return type
[more](#)
Pos: 83:4:

Miscellaneous

Similar variable names:

BEP20._mint(address,uint256) : Variables have very similar names "account" and "amount". Note: Modifiers are currently not considered by this static analysis.

Pos: 275:43:

No return:

IBEP20.totalSupply(): Defines a return type but never explicitly returns a value.

Pos: 82:4:

No return:

IBEP20.decimals(): Defines a return type but never explicitly returns a value.

Pos: 83:4:

Miscellaneous

Constant/View/Pure functions:

IBEP20.transfer(address,uint256) : Potentially should be constant/view/pure but is not. Note: Modifiers are currently not considered by this static analysis.

[more](#)

Pos: 43:4:

Constant/View/Pure functions:

IBEP20.approve(address,uint256) : Potentially should be constant/view/pure but is not. Note: Modifiers are currently not considered by this static analysis.

[more](#)

Pos: 68:4:

Similar variable names:

GOMA._transferBothExcluded(address,address,uint256) : Variables have very similar names "rFee" and "tFee". Note: Modifiers are currently not considered by this static analysis.

Pos: 1321:26:

No return:

IBEP20.totalSupply(): Defines a return type but never explicitly returns a value.

Pos: 29:4:

Guard conditions:

Use "assert(x)" if you never ever want x to be false, not in any circumstance (apart from a bug in your code). Use "require(x)" if x can be false, due to e.g. invalid input or a failing external component.

[more](#)

Pos: 260:12:

Guard conditions:

Use "assert(x)" if you never ever want x to be false, not in any circumstance (apart from a bug in your code). Use "require(x)" if x can be false, due to e.g. invalid input or a failing external component.

[more](#)

Pos: 283:12:

Data truncated:

Division of integer values yields an integer value again. That means e.g. $10 / 100 = 0$ instead of 0.1 since the result is an integer again. This does not hold for division of (only) literal values since those yield rational constants.

Pos: 226:15:

Data truncated:

Division of integer values yields an integer value again. That means e.g. $10 / 100 = 0$ instead of 0.1 since the result is an integer again. This does not hold for division of (only) literal values since those yield rational constants.

Pos: 284:19:



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