

Smart Contract
Audit Report





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AUDITED DETAILS

| Audited Project

Project name	Token ticker	Blockchain	
ROBO INU	RBIF	Ethereum	

Addresses

Contract address	0x7b32e70e8d73ac87c1b342e063528b2930b15ceb	
Contract deployer address	0xa116abd1B09c0b32B60260E2a65A3063AFf78B75	

Project Website

https://t.me/metagochi

Codebase

https://etherscan.io/address/0x7b32e70e8d73ac87c1b342e063528b2930b15ceb#code



SUMMARY

ROBO INU FINANCE is one of the many financial projects being spearheaded by ROBO GLOBAL INVESTMENT PTE LTD. Beyond the individuals, ROBO GLOBAL INVESTMENT aspires to create an open ecosystem where anyone, including you, can gain financial freedom. ROBO INU FINANCE leverages on blockchain technology to enhance the lives of individuals and business operations.

Contract Summary

Documentation Quality

ROBO INU provides a very good documentation with standard of solidity base code.

• The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

• Standard solidity basecode and rules are already followed by ROBO INU with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 577.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 18.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 722, 723, 723, 799, 800, 946, 946, 947 and 948.



CONCLUSION

We have audited the ROBO INU project released on November 2022 to discover issues and identify potential security vulnerabilities in ROBO INU Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides a satisfactory result with some low-risk issues.

The issues found in the ROBO INU smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set, and out-of-bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value.



AUDIT RESULT

Article	Category	Description	Result	
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously. ISSU FOUN		
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked. PASS		
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS	
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.		
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.		
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a ISSUE failing assert statement. FOUND		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used. PASS		
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses. PASS		



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	
Shadowing State Variable	SWC-119	State variables should not be shadowed.	
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS



Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	



SMART CONTRACT ANALYSIS

Started	Sunday Nov 07 2021 10:40:50 GMT+0000 (Coordinated Universal Time)
Finished	Monday Nov 08 2021 14:29:12 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	Token.sol

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



LINE 55

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
54  unchecked {
55  uint256 c = a + b;
56  if (c < a) return (false, 0);
57  return (true, c);
58  }
59</pre>
```



LINE 65

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
64  if (b > a) return (false, 0);
65  return (true, a - b);
66  }
67  }
68
69
```



LINE 76

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
75  if (a == 0) return (true, 0);
76  uint256 c = a * b;
77  if (c / a != b) return (false, 0);
78  return (true, c);
79  }
80
```



LINE 77

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
76   uint256   c = a * b;

77   if (c / a != b) return (false, 0);

78   return (true, c);

79   }

80  }

81
```



LINE 86

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
85  if (b == 0) return (false, 0);
86  return (true, a / b);
87  }
88  }
89  90
```



LINE 94

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
93 if (b == 0) return (false, 0);
94 return (true, a % b);
95 }
96 }
97
98
```



LINE 100

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
99 function add(uint256 a, uint256 b) internal pure returns (uint256) {
100 return a + b;
101 }
102
103
104
```



LINE 105

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
104  function sub(uint256 a, uint256 b) internal pure returns (uint256) {
105   return a - b;
106  }
107
108
109
```



LINE 110

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
109  function mul(uint256 a, uint256 b) internal pure returns (uint256) {
110  return a * b;
111  }
112
113
114
```



LINE 115

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
114  function div(uint256 a, uint256 b) internal pure returns (uint256) {
115  return a / b;
116  }
117
118
119
```



LINE 120

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
119  function mod(uint256 a, uint256 b) internal pure returns (uint256) {
120  return a % b;
121  }
122
123
124
```



LINE 131

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
130 require(b <= a, errorMessage);
131 return a - b;
132 }
133 }
134
135</pre>
```



LINE 143

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
142 require(b > 0, errorMessage);
143 return a / b;
144 }
145 }
146
147
```



LINE 155

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
154  require(b > 0, errorMessage);
155  return a % b;
156  }
157  }
158  }
159
```



LINE 546

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
545     uint256     private constant MAX = ~uint256(0);
546     uint256     private _tTotal = 100000000000 * 10**6 * 10**9;
547     uint256     private _rTotal = (MAX - (MAX % _tTotal));
548     uint256     private _tFeeTotal;
549
550
```



LINE 546

low SEVERITY

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Source File

- Token.sol

```
545     uint256     private constant MAX = ~uint256(0);
546     uint256     private _tTotal = 100000000000 * 10**6 * 10**9;
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LINE 546

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Source File

- Token.sol

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545 uint256 private constant MAX = ~uint256(0);
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548 uint256 private _tFeeTotal;
549
550
```



LINE 546

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546 uint256 private _tTotal = 1000000000000 * 10**6 * 10**9;
547 uint256 private _rTotal = (MAX - (MAX % _tTotal));
548 uint256 private _tFeeTotal;
549
550
```



LINE 547

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol



LINE 547

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol



LINE 573

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
572
573 uint256 public _maxTxAmount = 300000000 * 10**6 * 10**9;
574 uint256 private numTokensSellToAddToLiquidity = 200000000 * 10**6 * 10**9;
575 uint256 public _maxTokenHolder = 2000000000 * 10**6 * 10**9;
576
577
```



LINE 573

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
572
573 uint256 public _maxTxAmount = 300000000 * 10**6 * 10**9;
574 uint256 private numTokensSellToAddToLiquidity = 200000000 * 10**6 * 10**9;
575 uint256 public _maxTokenHolder = 2000000000 * 10**6 * 10**9;
576
577
```



LINE 573

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Source File

- Token.sol

```
572
573    uint256    public _maxTxAmount = 300000000 * 10**6 * 10**9;
574    uint256    private numTokensSellToAddToLiquidity = 200000000 * 10**6 * 10**9;
575    uint256    public _maxTokenHolder = 2000000000 * 10**6 * 10**9;
576
577
```



LINE 573

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Source File

- Token.sol

```
572
573    uint256    public _maxTxAmount = 300000000 * 10**6 * 10**9;
574    uint256    private numTokensSellToAddToLiquidity = 200000000 * 10**6 * 10**9;
575    uint256    public _maxTokenHolder = 2000000000 * 10**6 * 10**9;
576
577
```



LINE 574

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
573 uint256 public _maxTxAmount = 300000000 * 10**6 * 10**9;
574 uint256 private numTokensSellToAddToLiquidity = 20000000 * 10**6 * 10**9;
575 uint256 public _maxTokenHolder = 2000000000 * 10**6 * 10**9;
576
577 bool inSwapAndLiquify;
578
```



LINE 574

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
573 uint256 public _maxTxAmount = 300000000 * 10**6 * 10**9;
574 uint256 private numTokensSellToAddToLiquidity = 20000000 * 10**6 * 10**9;
575 uint256 public _maxTokenHolder = 2000000000 * 10**6 * 10**9;
576
577 bool inSwapAndLiquify;
578
```



LINE 574

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Source File

- Token.sol

```
573 uint256 public _maxTxAmount = 300000000 * 10**6 * 10**9;
574 uint256 private numTokensSellToAddToLiquidity = 20000000 * 10**6 * 10**9;
575 uint256 public _maxTokenHolder = 2000000000 * 10**6 * 10**9;
576
577 bool inSwapAndLiquify;
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LINE 574

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Source File

- Token.sol

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573 uint256 public _maxTxAmount = 300000000 * 10**6 * 10**9;
574 uint256 private numTokensSellToAddToLiquidity = 20000000 * 10**6 * 10**9;
575 uint256 public _maxTokenHolder = 2000000000 * 10**6 * 10**9;
576
577 bool inSwapAndLiquify;
578
```



LINE 575

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
uint256 private numTokensSellToAddToLiquidity = 20000000 * 10**6 * 10**9;

uint256 public _maxTokenHolder = 2000000000 * 10**6 * 10**9;

bool inSwapAndLiquify;

bool public swapAndLiquifyEnabled = false;
```



LINE 575

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
uint256 private numTokensSellToAddToLiquidity = 20000000 * 10**6 * 10**9;

uint256 public _maxTokenHolder = 2000000000 * 10**6 * 10**9;

bool inSwapAndLiquify;

bool public swapAndLiquifyEnabled = false;
```



LINE 575

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
uint256 private numTokensSellToAddToLiquidity = 20000000 * 10**6 * 10**9;
uint256 public _maxTokenHolder = 2000000000 * 10**6 * 10**9;

bool inSwapAndLiquify;
bool public swapAndLiquifyEnabled = false;

579
```



LINE 575

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
uint256 private numTokensSellToAddToLiquidity = 20000000 * 10**6 * 10**9;
uint256 public _maxTokenHolder = 2000000000 * 10**6 * 10**9;

bool inSwapAndLiquify;
bool public swapAndLiquifyEnabled = false;

579
```



LINE 721

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
720 require(_excluded.length < 20, "Excluded list too big");
721 for (uint256 i = 0; i < _excluded.length; i++) {
722  if (_excluded[i] == account) {
723   _excluded[i] = _excluded[_excluded.length - 1];
724   _tOwned[account] = 0;
725</pre>
```



LINE 723

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol



LINE 945

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
944  uint256 tSupply = _tTotal;
945  for (uint256 i = 0; i < _excluded.length; i++) {
946   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
947   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
948   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
949
```



LINE 964

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
963 return _amount.mul(_taxFee).div(
964    10**2
965    );
966    }
967
968
```



LINE 970

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol



LINE 976

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
975 return _amount.mul(_marketingDivisor).div(
976    10**2
977    );
978    }
979
980
```



LINE 1112

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
1111
1112  _maxTxAmount = 1000000000 * 10**6 * 10**9;
1113  }
1114
1115  function goLive() external onlyOwner {
1116
```



LINE 1112

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
1111
1112  _maxTxAmount = 1000000000 * 10**6 * 10**9;
1113  }
1114
1115  function goLive() external onlyOwner {
1116
```



LINE 1112

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
1111
1112 _maxTxAmount = 1000000000 * 10**6 * 10**9;
1113 }
1114
1115 function goLive() external onlyOwner {
1116
```



LINE 1112

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
1111
1112 _maxTxAmount = 1000000000 * 10**6 * 10**9;
1113 }
1114
1115 function goLive() external onlyOwner {
1116
```



LINE 1134

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
1133
1134  _maxTxAmount = 300000000 * 10**6 * 10**9;
1135  }
1136
1137  }
1138
```



LINE 1134

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
1133
1134  _maxTxAmount = 300000000 * 10**6 * 10**9;
1135  }
1136
1137  }
1138
```



LINE 1134

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
1133
1134  _maxTxAmount = 300000000 * 10**6 * 10**9;
1135  }
1136
1137  }
1138
```



LINE 1134

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol

```
1133
1134  _maxTxAmount = 300000000 * 10**6 * 10**9;
1135  }
1136
1137  }
1138
```



SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 723

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Token.sol



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 18

low SEVERITY

The current pragma Solidity directive is ""^0.8.4"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- Token.sol

```
17 **/
18 pragma solidity ^0.8.4;
19
20
21 interface IERC20 {
```



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 577

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.

Source File

- Token.sol

```
576
577 bool inSwapAndLiquify;
578 bool public swapAndLiquifyEnabled = false;
579
580 event SwapAndLiquifyEnabledUpdated(bool enabled);
581
```



LINE 722

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Token.sol

```
721  for (uint256 i = 0; i < _excluded.length; i++) {
722   if (_excluded[i] == account) {
723    _excluded[i] = _excluded[_excluded.length - 1];
724   _tOwned[account] = 0;
725   _isExcluded[account] = false;
726</pre>
```



LINE 723

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Token.sol



LINE 723

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Token.sol



LINE 799

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Token.sol

```
798 address[] memory path = new address[](2);
799 path[0] = address(this);
800 path[1] = uniswapV2Router.WETH();
801
802 _approve(address(this), address(uniswapV2Router), tokenAmount);
803
```



LINE 800

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Token.sol

```
799 path[0] = address(this);
800 path[1] = uniswapV2Router.WETH();
801
802 _approve(address(this), address(uniswapV2Router), tokenAmount);
803
804
```



LINE 946

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Token.sol

```
945 for (uint256 i = 0; i < _excluded.length; i++) {
946   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
947   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
948   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
949  }
950
```



LINE 946

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Token.sol

```
945 for (uint256 i = 0; i < _excluded.length; i++) {
946   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
947   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
948   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
949  }
950
```



LINE 947

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Token.sol

```
946 if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);
947    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
948    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
949    }
950    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
951
```



LINE 948

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Token.sol

```
947  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
948  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
949  }
950  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
951  return (rSupply, tSupply);
952</pre>
```



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