

Froggies Token Smart Contract Audit Report



24 Oct 2022



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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
Froggies Token	FRGST	Binance Smart Chain	

Addresses

Contract address	0x7029994f28fd39ff934a96b25591d250a2183f67	
Contract deployer address	0x5dFA97D943ECd7Da3fF537dc6e728800C1ee3c76	

Project Website

https://www.froggiestoken.com/

<u>Codebase</u>

https://bscscan.com/address/0x7029994f28fd39ff934a96b25591d250a2183f67#code



SUMMARY

FROGGIES INTO SPACE We are Froggies, a meme coin launched in November 2021. I Flew passed bulls and bears, hype and fud. We are still here and ready to provide the market with a Second Gen Memecoin. Our ultimate destination is Moon, and to ensure our landing zone in Space, we build on community, utility & usability. Froggies is an open community and drive a free market. Our team is devoted to delivering the best to our holders and securing a long-term projects.

Contract Summary

Documentation Quality

Froggies Token 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 Froggies Token with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 28, 42, 57, 58, 71, 83, 98, 112, 126, 140, 156, 179, 202, 228, 553, 554, 555, 555, 574, 575, 577, 578, 580, 581, 655, 946, 997, 1060, 1452, 1455 and 1455.
- 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 657, 658, 661, 662, 1032, 1033, 1453, 1454 and 1454.



CONCLUSION

We have audited the Froggies Token project released on October 2022 to discover issues and identify potential security vulnerabilities in Froggies Token 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 satisfactory results with low-risk issues.

The issues found in the Froggies Token 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 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.	PASS	
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.	recent version of the PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	PASS	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.		
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.		
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.		
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS	
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS	
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach aISSUfailing assert statement.FOUL		
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.	
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.	PASS
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.	PASS
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/.	PASS
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.	PASS
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.	
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.	PASS



SMART CONTRACT ANALYSIS

Started	Sunday Oct 23 2022 13:02:04 GMT+0000 (Coordinated Universal Time)		
Finished	Monday Oct 24 2022 17:48:47 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	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 28

Iow SEVERITY

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

Source File

- Token.sol

```
27 unchecked {
28 uint256 c = a + b;
29 if (c < a) return (false, 0);
30 return (true, c);
31 }
32</pre>
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 42

Iow SEVERITY

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

Source File

- Token.sol

```
41 if (b > a) return (false, 0);
42 return (true, a - b);
43 }
44 }
45
46
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 57

Iow SEVERITY

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

Source File

- Token.sol

```
56 if (a == 0) return (true, 0);
57 uint256 c = a * b;
58 if (c / a != b) return (false, 0);
59 return (true, c);
60 }
61
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 58

Iow SEVERITY

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

Source File

- Token.sol

```
57 uint256 c = a * b;
58 if (c / a != b) return (false, 0);
59 return (true, c);
60 }
61 }
62
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 71

Iow SEVERITY

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

Source File

- Token.sol

```
70 if (b == 0) return (false, 0);
71 return (true, a / b);
72 }
73 }
74
75
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 83

Iow SEVERITY

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

Source File

- Token.sol

```
82 if (b == 0) return (false, 0);
83 return (true, a % b);
84 }
85 }
86
87
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 98

Iow SEVERITY

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

Source File

- Token.sol

```
97 function add(uint256 a, uint256 b) internal pure returns (uint256) {
98 return a + b;
99 }
100
101 /**
102
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 112

Iow SEVERITY

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

Source File

- Token.sol

```
111 function sub(uint256 a, uint256 b) internal pure returns (uint256) {
112 return a - b;
113 }
114
115 /**
116
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 126

Iow SEVERITY

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

Source File

- Token.sol

```
125 function mul(uint256 a, uint256 b) internal pure returns (uint256) {
126 return a * b;
127 }
128
129 /**
130
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 140

Iow SEVERITY

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

Source File

- Token.sol

```
139 function div(uint256 a, uint256 b) internal pure returns (uint256) {
140 return a / b;
141 }
142
143 /**
144
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 156

Iow SEVERITY

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

Source File

- Token.sol

```
155 function mod(uint256 a, uint256 b) internal pure returns (uint256) {
156 return a % b;
157 }
158
159 /**
160
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 179

Iow SEVERITY

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

Source File

- Token.sol

```
178 require(b <= a, errorMessage);
179 return a - b;
180 }
181 }
182
183</pre>
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 202

Iow SEVERITY

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

Source File

- Token.sol

```
201 require(b > 0, errorMessage);
202 return a / b;
203 }
204 }
205
206
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 228

Iow SEVERITY

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

Source File

- Token.sol

```
227 require(b > 0, errorMessage);
228 return a % b;
229 }
230 }
231 }
232
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 553

Iow SEVERITY

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

Source File

- Token.sol

```
552 state._tTotal =
553 100_000_000_000_000 *
554 10**state.config.uints[Types.UintConfig.TOKEN_DECIMALS];
555 state._rTotal = (state.MAX - (state.MAX % state._tTotal));
556 state._rOwned[admin] = state._rTotal;
557
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 554

Iow SEVERITY

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

Source File

- Token.sol

```
553 100_000_000_000_000 *
554 10**state.config.uints[Types.UintConfig.TOKEN_DECIMALS];
555 state._rTotal = (state.MAX - (state.MAX % state._tTotal));
556 state._rOwned[admin] = state._rTotal;
557
558
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 555

Iow SEVERITY

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

Source File

- Token.sol

```
554 10**state.config.uints[Types.UintConfig.TOKEN_DECIMALS];
555 state._rTotal = (state.MAX - (state.MAX % state._tTotal));
556 state._rOwned[admin] = state._rTotal;
557
558 state.marketingPercent = 200;
559
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 555

Iow SEVERITY

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

Source File

- Token.sol

```
554 10**state.config.uints[Types.UintConfig.TOKEN_DECIMALS];
555 state._rTotal = (state.MAX - (state.MAX % state._tTotal));
556 state._rOwned[admin] = state._rTotal;
557
558 state.marketingPercent = 200;
559
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 574

Iow SEVERITY

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

Source File

- Token.sol

Locations

573 state.MAXTxAmount =
574 1_000_000_000_000 *
575 10**state.config.uints[Types.UintConfig.TOKEN_DECIMALS];
576 state.numTokensSellToAddToLiquidity =
577 10_000_000_000_000 *
578



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 575

Iow SEVERITY

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

Source File

- Token.sol

Locations

574 1_000_000_000_000 *
575 10**state.config.uints[Types.UintConfig.TOKEN_DECIMALS];
576 state.numTokensSellToAddToLiquidity =
577 10_000_000_000 *
578 10**state.config.uints[Types.UintConfig.TOKEN_DECIMALS];
579



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 577

Iow SEVERITY

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

Source File

- Token.sol

Locations

576 state.numTokensSellToAddToLiquidity =
577 10_000_000_000 *

- 578 10**state.config.uints[Types.UintConfig.TOKEN_DECIMALS];
- 579 state.numTokensToSendCollectedFee =
- 580 20_000_000_000_*



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 578

Iow SEVERITY

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

Source File

- Token.sol

Locations

577 10_000_000_000 *
578 10**state.config.uints[Types.UintConfig.TOKEN_DECIMALS];
579 state.numTokensToSendCollectedFee =
580 20_000_000_000_000 *
581 10**state.config.uints[Types.UintConfig.TOKEN_DECIMALS];
582



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 580

Iow SEVERITY

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

Source File

- Token.sol

Locations

579 state.numTokensToSendCollectedFee =
580 20_000_000_000 *
581 10**state.config.uints[Types.UintConfig.TOKEN_DECIMALS];
582
583 state._isExcludedFromFee[admin] = true;
584



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 581

Iow SEVERITY

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

Source File

- Token.sol

```
580 20_000_000_000 *
581 10**state.config.uints[Types.UintConfig.TOKEN_DECIMALS];
582
583 state._isExcludedFromFee[admin] = true;
584 state._isExcludedFromFee[address(this)] = true;
585
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 655

Iow SEVERITY

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

Source File

- Token.sol

```
654
655 for (uint256 i = 0; i < state._excludedFromReward.length; i++) {
656 if (
657 state._rOwned[state._excludedFromReward[i]] > rSupply ||
658 state._tOwned[state._excludedFromReward[i]] > tSupply
659
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 946

Iow SEVERITY

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

Source File

- Token.sol

Locations

945 {
946 return _amount.mul(state._taxToDeduct).div(10**4);
947 }
948
949 function _getRValues(
950



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 997

Iow SEVERITY

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

Source File

- Token.sol

```
996 uint256 shibbaFee = OneFull.mul(state.shibbaPercent).div(1e2);
997 uint256 totalFeeToSwapForBNB = marketingFee + shibbaFee;
998 _transferInternal(
999 state,
1000 sender,
1001
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1060

Iow SEVERITY

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

Source File

- Token.sol

```
1059 state.collectedFee.mul(100).div(
1060 state.shibbaPercent + state.marketingPercent
1061 )
1062 );
1063 uint256 marketingFee = OneFull.mul(state.marketingPercent).div(1e2);
1064
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1452

Iow SEVERITY

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

Source File

- Token.sol

```
1451 uint256 excludedLength = state._excludedFromReward.length;
1452 for (uint256 i = 0; i < excludedLength; i++) {
1453 if (state._excludedFromReward[i] == _account) {
1454 state._excludedFromReward[i] = state._excludedFromReward[
1455 excludedLength - 1
1456
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1455

Iow SEVERITY

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

Source File

- Token.sol

```
1454 state._excludedFromReward[i] = state._excludedFromReward[
1455 excludedLength - 1
1456 ];
1457
1458 state._tOwned[_account] = 0;
1459
```



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

LINE 1455

Iow SEVERITY

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

Source File

- Token.sol

```
1454 state._excludedFromReward[i] = state._excludedFromReward[
1455 excludedLength - 1
1456 ];
1457
1458 state._tOwned[_account] = 0;
1459
```



LINE 657

Iow SEVERITY

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

Source File

- Token.sol

```
656 if (
657 state._rOwned[state._excludedFromReward[i]] > rSupply ||
658 state._tOwned[state._excludedFromReward[i]] > tSupply
659 ) return (state._rTotal, state._tTotal);
660
661
```



LINE 658

Iow SEVERITY

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

Source File

- Token.sol

```
657 state._rOwned[state._excludedFromReward[i]] > rSupply ||
658 state._tOwned[state._excludedFromReward[i]] > tSupply
659 ) return (state._rTotal, state._tTotal);
660
661 rSupply = rSupply.sub(state._rOwned[state._excludedFromReward[i]]);
662
```



LINE 661

Iow SEVERITY

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

Source File

- Token.sol

```
660
661 rSupply = rSupply.sub(state._rOwned[state._excludedFromReward[i]]);
662 tSupply = tSupply.sub(state._tOwned[state._excludedFromReward[i]]);
663 }
664
665
```



LINE 662

Iow SEVERITY

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

Source File

- Token.sol

```
661 rSupply = rSupply.sub(state._rOwned[state._excludedFromReward[i]]);
662 tSupply = tSupply.sub(state._tOwned[state._excludedFromReward[i]]);
663 }
664
665 if (rSupply < state._rTotal.div(state._tTotal))
666
```



LINE 1032

Iow SEVERITY

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

Source File

- Token.sol

```
1031 address[] memory path = new address[](2);
1032 path[0] = address(this);
1033 path[1] = state.swapV2Router.WETH();
1034
1035 _approve(
1036
```



LINE 1033

Iow SEVERITY

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

Source File

- Token.sol

```
1032 path[0] = address(this);
1033 path[1] = state.swapV2Router.WETH();
1034
1035 _approve(
1036 state,
1037
```



LINE 1453

Iow SEVERITY

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

Source File

- Token.sol

```
1452 for (uint256 i = 0; i < excludedLength; i++) {
1453 if (state._excludedFromReward[i] == _account) {
1454 state._excludedFromReward[i] = state._excludedFromReward[
1455 excludedLength - 1
1456 ];
1457</pre>
```



LINE 1454

Iow SEVERITY

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

Source File

- Token.sol

```
1453 if (state._excludedFromReward[i] == _account) {
1454 state._excludedFromReward[i] = state._excludedFromReward[
1455 excludedLength - 1
1456 ];
1457
1458
```



LINE 1454

Iow SEVERITY

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

Source File

- Token.sol

```
1453 if (state._excludedFromReward[i] == _account) {
1454 state._excludedFromReward[i] = state._excludedFromReward[
1455 excludedLength - 1
1456 ];
1457
1458
```



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Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.