



# Strelka Coin Smart Contract Audit Report

# TABLE OF CONTENTS

## [Audited Details](#)

- Audited Project
- Blockchain
- Addresses
- Project Website
- Codebase

## [Summary](#)

- Contract Summary
- Audit Findings Summary
- Vulnerabilities Summary

## [Conclusion](#)

## [Audit Results](#)

## [Smart Contract Analysis](#)

- Detected Vulnerabilities

## [Disclaimer](#)

## [About Us](#)

# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
Strelka Coin	STRELKA	Binance Smart Chain

## Addresses

Contract address	0x5A21A450b39dD19108deD9F70EC1285A757efe25
Contract deployer address	0x0A082068Fa05253eAB2EaeD698edA443C57452c2

## Project Website

<https://www.strelkaproject.com/>

## Codebase

<https://bscscan.com/address/0x5A21A450b39dD19108deD9F70EC1285A757efe25#code>

# SUMMARY

Strelka Coin is an innovative project combining a revolutionary NFT P2E Game with charity partnerships with the biggest animal welfare associations in the world. The NFT P2E Game is ready and playable at launch. Charity partnership with Humane Society International - the biggest animal welfare association in the world. Legal entity and an experienced team. Product ( NFT Play to Earn Game) ready and playable at launch. Partnerships with the biggest BSC influencers. Partnerships with celebrities

## Contract Summary

### Documentation Quality

Strelka Coin provides a very good documentation with standard of solidity base code.

- The technical description is provided clearly and structured and also don't have any high risk issue.

### Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by Strelka Coin 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 328, 329, 341 and 342.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 215, 215, 215, 215, 216, 216, 217, 217, 218, 218, 219, 219, 220, 220, 251, 252, 256, 287, 326, 326, 343, 343, 408, 423, 425, 429, 431, 446, 463, 464, 470, 470, 470, 470, 471, 471, 472, 474, 486, 486, 486, 486, 487, 527 and 527.
- 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 236 and 237.

## CONCLUSION

We have audited the NamaFile project released on January 2023 to discover issues and identify potential security vulnerabilities in NamaFile 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 NamaFile 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 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 and it's best practice to set the visibility of state variables explicitly. The default visibility for "\_balances" is internal. Other possible visibility settings are public and private.

# 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.	ISSUE FOUND
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.	PASS
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.	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 a failing assert statement.	ISSUE 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.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
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.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	PASS
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 grieving 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.	PASS
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.	PASS
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.	PASS
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.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS



# SMART CONTRACT ANALYSIS

Started	Tuesday Jan 31 2023 13:07:38 GMT+0000 (Coordinated Universal Time)
Finished	Wednesday Feb 01 2023 03:32:33 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	Strelka.sol

## Detected Issues

[illegible]



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-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged

## SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 215

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
214     lastDistributeTime = block.timestamp;
215     uint256 totalTax = taxToReward + taxToLiquidity + taxToOperations + taxToMarketing
+ taxToCharity;
216     uint256 amountForReward = amount * taxToReward / totalTax;
217     uint256 amountForLiquidity = amount*taxToLiquidity / totalTax;
218     uint256 amountForOperations = amount*taxToOperations / totalTax;
219
```

## SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 215

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
214     lastDistributeTime = block.timestamp;
215     uint256 totalTax = taxToReward + taxToLiquidity + taxToOperations + taxToMarketing
+ taxToCharity;
216     uint256 amountForReward = amount * taxToReward / totalTax;
217     uint256 amountForLiquidity = amount*taxToLiquidity / totalTax;
218     uint256 amountForOperations = amount*taxToOperations / totalTax;
219
```

## SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 215

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
214     lastDistributeTime = block.timestamp;
215     uint256 totalTax = taxToReward + taxToLiquidity + taxToOperations + taxToMarketing
+ taxToCharity;
216     uint256 amountForReward = amount * taxToReward / totalTax;
217     uint256 amountForLiquidity = amount*taxToLiquidity / totalTax;
218     uint256 amountForOperations = amount*taxToOperations / totalTax;
219
```

## SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 215

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
214     lastDistributeTime = block.timestamp;
215     uint256 totalTax = taxToReward + taxToLiquidity + taxToOperations + taxToMarketing
+ taxToCharity;
216     uint256 amountForReward = amount * taxToReward / totalTax;
217     uint256 amountForLiquidity = amount*taxToLiquidity / totalTax;
218     uint256 amountForOperations = amount*taxToOperations / totalTax;
219
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 216

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
215  uint256 totalTax = taxToReward + taxToLiquidity + taxToOperations + taxToMarketing
+ taxToCharity;
216  uint256 amountForReward = amount * taxToReward / totalTax;
217  uint256 amountForLiquidity = amount*taxToLiquidity / totalTax;
218  uint256 amountForOperations = amount*taxToOperations / totalTax;
219  uint256 amountForMarketing = amount*taxToMarketing / totalTax;
220
```



# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 216

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
215  uint256 totalTax = taxToReward + taxToLiquidity + taxToOperations + taxToMarketing
    + taxToCharity;
216  uint256 amountForReward = amount * taxToReward / totalTax;
217  uint256 amountForLiquidity = amount*taxToLiquidity / totalTax;
218  uint256 amountForOperations = amount*taxToOperations / totalTax;
219  uint256 amountForMarketing = amount*taxToMarketing / totalTax;
220
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 217

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
216 uint256 amountForReward = amount * taxToReward / totalTax;
217 uint256 amountForLiquidity = amount*taxToLiquidity / totalTax;
218 uint256 amountForOperations = amount*taxToOperations / totalTax;
219 uint256 amountForMarketing = amount*taxToMarketing / totalTax;
220 uint256 amountForCharity = amount*taxToCharity / totalTax;
221
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 217

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
216 uint256 amountForReward = amount * taxToReward / totalTax;
217 uint256 amountForLiquidity = amount*taxToLiquidity / totalTax;
218 uint256 amountForOperations = amount*taxToOperations / totalTax;
219 uint256 amountForMarketing = amount*taxToMarketing / totalTax;
220 uint256 amountForCharity = amount*taxToCharity / totalTax;
221
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 218

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
217 uint256 amountForLiquidity = amount*taxToLiquidity / totalTax;  
218 uint256 amountForOperations = amount*taxToOperations / totalTax;  
219 uint256 amountForMarketing = amount*taxToMarketing / totalTax;  
220 uint256 amountForCharity = amount*taxToCharity / totalTax;  
221  
222
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 218

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
217 uint256 amountForLiquidity = amount*taxToLiquidity / totalTax;  
218 uint256 amountForOperations = amount*taxToOperations / totalTax;  
219 uint256 amountForMarketing = amount*taxToMarketing / totalTax;  
220 uint256 amountForCharity = amount*taxToCharity / totalTax;  
221  
222
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 219

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
218 uint256 amountForOperations = amount*taxToOperations / totalTax;
219 uint256 amountForMarketing = amount*taxToMarketing / totalTax;
220 uint256 amountForCharity = amount*taxToCharity / totalTax;
221
222 token.transfer(rewardPool, amountForReward);
223
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 219

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
218 uint256 amountForOperations = amount*taxToOperations / totalTax;
219 uint256 amountForMarketing = amount*taxToMarketing / totalTax;
220 uint256 amountForCharity = amount*taxToCharity / totalTax;
221
222 token.transfer(rewardPool, amountForReward);
223
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 220

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
219  uint256 amountForMarketing = amount*taxToMarketing / totalTax;
220  uint256 amountForCharity = amount*taxToCharity / totalTax;
221
222  token.transfer(rewardPool, amountForReward);
223
224
```



# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 220

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
219     uint256 amountForMarketing = amount*taxToMarketing / totalTax;
220     uint256 amountForCharity = amount*taxToCharity / totalTax;
221
222     token.transfer(rewardPool, amountForReward);
223
224
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 251

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
250     ) internal {  
251         uint256 halfTokenAmount = tokenAmount / 2;  
252         uint256 busdAmount = tokenAmount - halfTokenAmount;  
253         uint256 busdBalanceBefore = IERC20(BUSD).balanceOf(address(this));  
254         swapTokens(halfTokenAmount, address(this));  
255     }
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 252

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
251 uint256 halfTokenAmount = tokenAmount / 2;
252 uint256 busdAmount = tokenAmount - halfTokenAmount;
253 uint256 busdBalanceBefore = IERC20(BUSD).balanceOf(address(this));
254 swapTokens(halfTokenAmount, address(this));
255 uint256 busdBalanceAfter = IERC20(BUSD).balanceOf(address(this));
256
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 256

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
255 uint256 busdBalanceAfter = IERC20(BUSD).balanceOf(address(this));
256 uint256 busdBalance = busdBalanceAfter - busdBalanceBefore;
257 IERC20(BUSD).approve(address(router), busdBalance);
258 token.approve(address(router), halfTokenAmount);
259 router.addLiquidity(
260
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 287

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
286 function shouldDistribute() internal view returns(bool) {  
287     return lastDistributeTime + minPeriod < block.timestamp;  
288 }  
289 function setMinPeriod(uint256 _minPeriod) external override authorized {  
290     minPeriod = _minPeriod;  
291 }
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 326

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
325
326  uint256 constant _totalSupply = 1000000000 * (10 ** _decimals);
327
328  mapping (address => uint256) _balances;
329  mapping (address => mapping (address => uint256)) _allowances;
330
```

# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 326

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
325
326  uint256 constant _totalSupply = 1000000000 * (10 ** _decimals);
327
328  mapping (address => uint256) _balances;
329  mapping (address => mapping (address => uint256)) _allowances;
330
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 343

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
342 mapping (address => bool) isTxLimitExempt;  
343 uint256 public _maxTxAmount = 4500 * (10 ** _decimals);  
344 bool public antiBotEnabled = true;  
345 uint256 public cooldownTime = 30 seconds;  
346 mapping(address => uint256) public purchasedTime;  
347
```



# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 343

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
342 mapping (address => bool) isTxLimitExempt;  
343 uint256 public _maxTxAmount = 4500 * (10 ** _decimals);  
344 bool public antiBotEnabled = true;  
345 uint256 public cooldownTime = 30 seconds;  
346 mapping(address => uint256) public purchasedTime;  
347
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 408

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
407     if(_allowances[sender][msg.sender] != _totalSupply) {  
408         _allowances[sender][msg.sender] = _allowances[sender][msg.sender] - amount;  
409     }  
410     return _transferFrom(sender, recipient, amount);  
411 }  
412
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 423

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
422     purchasedTime[recipient] = block.timestamp;
423     _balances[sender] = _balances[sender] - amount;
424     uint256 amountReceived = takeTax(sender, amount);
425     _balances[recipient] = _balances[recipient] + amountReceived;
426     emit Transfer(sender, recipient, amountReceived);
427
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 425

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
424     uint256 amountReceived = takeTax(sender, amount);
425     _balances[recipient] = _balances[recipient] + amountReceived;
426     emit Transfer(sender, recipient, amountReceived);
427     return true;
428 } else if(!addingLiquidity && recipient==address(pair)) {
429
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 429

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
428     } else if(!addingLiquidity && recipient==address(pair)) {  
429         _balances[sender] = _balances[sender] - amount;  
430         uint256 amountReceived = takeTax(sender, amount);  
431         _balances[recipient] = _balances[recipient] + amountReceived;  
432         emit Transfer(sender, recipient, amountReceived);  
433     }
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 431

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
430     uint256 amountReceived = takeTax(sender, amount);
431     _balances[recipient] = _balances[recipient] + amountReceived;
432     emit Transfer(sender, recipient, amountReceived);
433     return true;
434 } else {
435
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 446

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
445     require(amount <= _maxTxAmount || isTxLimitExempt[sender], "TX Limit Exceeded");
446     require(block.timestamp>purchasedTime[recipient]+cooldownTime, "You can make
another purchase after cooldown time");
447   }
448
449   function setIsTxLimitExempt(address holder, bool exempt) external onlyOwner {
450
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 463

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
462  function _basicTransfer(address sender, address recipient, uint256 amount) internal
      returns (bool) {
463      _balances[sender] = _balances[sender] - amount;
464      _balances[recipient] = _balances[recipient] + amount;
465      emit Transfer(sender, recipient, amount);
466      return true;
467  }
```



## SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 464

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
463  _balances[sender] = _balances[sender] - amount;  
464  _balances[recipient] = _balances[recipient] + amount;  
465  emit Transfer(sender, recipient, amount);  
466  return true;  
467  }  
468
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 470

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
469     function takeTax(address sender, uint256 amount) internal returns (uint256) {  
470         uint256 totalTax = taxRewardPool + taxLiquidity + taxOperations + taxMarketing +  
            taxCharity;  
471         uint256 buyTaxAmount = amount*(totalTax)/feeDenominator;  
472         _balances[address(taxHandler)] = _balances[address(taxHandler)] + buyTaxAmount;  
473         emit Transfer(sender, address(taxHandler), buyTaxAmount);  
474     }
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 470

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
469     function takeTax(address sender, uint256 amount) internal returns (uint256) {
470         uint256 totalTax = taxRewardPool + taxLiquidity + taxOperations + taxMarketing +
taxCharity;
471         uint256 buyTaxAmount = amount*(totalTax)/feeDenominator;
472         _balances[address(taxHandler)] = _balances[address(taxHandler)] + buyTaxAmount;
473         emit Transfer(sender, address(taxHandler), buyTaxAmount);
474     }
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 470

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
469     function takeTax(address sender, uint256 amount) internal returns (uint256) {
470         uint256 totalTax = taxRewardPool + taxLiquidity + taxOperations + taxMarketing +
taxCharity;
471         uint256 buyTaxAmount = amount*(totalTax)/feeDenominator;
472         _balances[address(taxHandler)] = _balances[address(taxHandler)] + buyTaxAmount;
473         emit Transfer(sender, address(taxHandler), buyTaxAmount);
474     }
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 470

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
469     function takeTax(address sender, uint256 amount) internal returns (uint256) {  
470         uint256 totalTax = taxRewardPool + taxLiquidity + taxOperations + taxMarketing +  
            taxCharity;  
471         uint256 buyTaxAmount = amount*(totalTax)/feeDenominator;  
472         _balances[address(taxHandler)] = _balances[address(taxHandler)] + buyTaxAmount;  
473         emit Transfer(sender, address(taxHandler), buyTaxAmount);  
474     }
```

## SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 471

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
470  uint256 totalTax = taxRewardPool + taxLiquidity + taxOperations + taxMarketing +  
    taxCharity;  
471  uint256 buyTaxAmount = amount*(totalTax)/feeDenominator;  
472  _balances[address(taxHandler)] = _balances[address(taxHandler)] + buyTaxAmount;  
473  emit Transfer(sender, address(taxHandler), buyTaxAmount);  
474  return amount - buyTaxAmount;  
475
```

## SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 471

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
470    uint256 totalTax = taxRewardPool + taxLiquidity + taxOperations + taxMarketing +  
taxCharity;  
471    uint256 buyTaxAmount = amount*(totalTax)/feeDenominator;  
472    _balances[address(taxHandler)] = _balances[address(taxHandler)] + buyTaxAmount;  
473    emit Transfer(sender, address(taxHandler), buyTaxAmount);  
474    return amount - buyTaxAmount;  
475
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 472

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
471     uint256 buyTaxAmount = amount*(totalTax)/feeDenominator;  
472     _balances[address(taxHandler)] = _balances[address(taxHandler)] + buyTaxAmount;  
473     emit Transfer(sender, address(taxHandler), buyTaxAmount);  
474     return amount - buyTaxAmount;  
475 }  
476
```



# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 474

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
473     emit Transfer(sender, address(taxHandler), buyTaxAmount);  
474     return amount - buyTaxAmount;  
475 }  
476  
477 function setTaxes(  
478
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 486

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
485     require(_feeDenominator<=10000, "Fee denominator can not be set over 100%");
486     uint256 _total = _reward + _liquidity + _operations + _marketing + _charity;
487     require(_total<=_feeDenominator/10, "Total tax can not be set over 10%"); /// Tax
cannot exceed 10%
488
489     taxRewardPool = _reward;
490
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 486

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
485     require(_feeDenominator<=10000, "Fee denominator can not be set over 100%");
486     uint256 _total = _reward + _liquidity + _operations + _marketing + _charity;
487     require(_total<=_feeDenominator/10, "Total tax can not be set over 10%"); /// Tax
cannot exceed 10%
488
489     taxRewardPool = _reward;
490
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 486

## low SEVERITY

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

## Source File

- Strelka.sol

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```
485     require(_feeDenominator<=10000, "Fee denominator can not be set over 100%");
486     uint256 _total = _reward + _liquidity + _operations + _marketing + _charity;
487     require(_total<=_feeDenominator/10, "Total tax can not be set over 10%"); /// Tax
cannot exceed 10%
488
489     taxRewardPool = _reward;
490
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 486

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
485     require(_feeDenominator<=10000, "Fee denominator can not be set over 100%");
486     uint256 _total = _reward + _liquidity + _operations + _marketing + _charity;
487     require(_total<=_feeDenominator/10, "Total tax can not be set over 10%"); /// Tax
cannot exceed 10%
488
489     taxRewardPool = _reward;
490
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 487

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
486     uint256 _total = _reward + _liquidity + _operations + _marketing + _charity;
487     require(_total<=_feeDenominator/10, "Total tax can not be set over 10%"); /// Tax
cannot exceed 10%
488
489     taxRewardPool = _reward;
490     taxLiquidity = _liquidity;
491
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 527

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
526     require(amount > 4000);
527     _maxTxAmount = amount * (10**_decimals);
528 }
529 function setAntibot(bool _enable) external onlyOwner {
530     antiBotEnabled = _enable;
531 }
```

# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 527

## low SEVERITY

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

## Source File

- Strelka.sol

## Locations

```
526     require(amount > 4000);
527     _maxTxAmount = amount * (10**_decimals);
528 }
529 function setAntibot(bool _enable) external onlyOwner {
530     antiBotEnabled = _enable;
531 }
```



## SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 328

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
327
328 mapping (address => uint256) _balances;
329 mapping (address => mapping (address => uint256)) _allowances;
330
331 uint256 public taxRewardPool = 100;
332
```

## SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 329

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
328 mapping (address => uint256) _balances;
329 mapping (address => mapping (address => uint256)) _allowances;
330
331 uint256 public taxRewardPool = 100;
332 uint256 public taxLiquidity = 100;
333
```

## SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 341

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
340  bool public addingLiquidity;
341  bool processing = false;
342  mapping (address => bool) isTxLimitExempt;
343  uint256 public _maxTxAmount = 4500 * (10 ** _decimals);
344  bool public antiBotEnabled = true;
345
```

## SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 342

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
341  bool processing = false;
342  mapping (address => bool) isTxLimitExempt;
343  uint256 public _maxTxAmount = 4500 * (10 ** _decimals);
344  bool public antiBotEnabled = true;
345  uint256 public cooldownTime = 30 seconds;
346
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 236

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
235     address[] memory path = new address[](2);
236     path[0] = address(token);
237     path[1] = BUSD;
238     token.approve(address(router), amount);
239     router.swapExactTokensForTokensSupportingFeeOnTransferTokens(
240
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 237

### low SEVERITY

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

### Source File

- Strelka.sol

### Locations

```
236 path[0] = address(token);  
237 path[1] = BUSD;  
238 token.approve(address(router), amount);  
239 router.swapExactTokensForTokensSupportingFeeOnTransferTokens(  
240 amount,  
241
```

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