



Tuzi2023

# 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
Tuzi2023	T2023	Binance Smart Chain

## Addresses

Contract address	0xD03cc658eF2192d7cE174b91b752E9A72821dd65
Contract deployer address	0x3519400E403a0260dA97B0a29DB5c6C22718e994

## Project Website

<https://www.tuzi2023.com/>

## Codebase

<https://bscscan.com/address/0xD03cc658eF2192d7cE174b91b752E9A72821dd65#code>

# SUMMARY

Tuzi is a meme token made in celebration of new year of china. Ring in the year of rabbit with doge coin rewards from our Tuzi Token. Dev team always keep Community Connection. Confident to use the power of community for pushing in organic way. Long-term development. Give up ownership after launch.

## Contract Summary

### Documentation Quality

Tuzi2023 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 Tuzi2023 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 60, 188, 220, 243, 244, 279, 315, 331, 335, 347, 354, 363, 891, 930, 976, 1011, 1098, 1098, 1175, 1175, 1244, 1273, 1273, 1426, 1426, 1426, 1456, 1459, 1459, 1462, 1462, 1463, 1463, 1463, 1469, 1469, 1472, 1502, 1503, 1503, 1504, 1510, 1511, 1511, 1512, 1520, 1520, 1526, 1526, 1532, 1532, 1596, 1596, 1608, 1608, 1678, 1687, 1765, 1775, 1779, 1784 and 60.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 8, 74, 121, 174, 398, 422, 481, 586, 875 and 1066.
- 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 31, 61, 66, 973, 974, 1245, 1541, 1542 and 1771.
- SWC-115 | tx.origin should not be used for authorization, use msg.sender instead on lines 1201 and 1494.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 1285 and 1456.

# CONCLUSION

We have audited the Tuzi2023 project released on January 2023 to discover issues and identify potential security vulnerabilities in Tuzi2023 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 Tuzi2023 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, weak sources of randomness, tx.origin as a part of authorization control 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.	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
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
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	Delegate calls 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.	ISSUE FOUND
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
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.	ISSUE FOUND
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

# SMART CONTRACT ANALYSIS

Started	Saturday Jan 07 2023 12:01:21 GMT+0000 (Coordinated Universal Time)
Finished	Sunday Jan 08 2023 19:15:18 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	Tuzi2023.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



[illegible]

<b>SWC-103</b>	A FLOATING PRAGMA IS SET.	<b>low</b>	acknowledged
<b>SWC-103</b>	A FLOATING PRAGMA IS SET.	<b>low</b>	acknowledged
<b>SWC-103</b>	A FLOATING PRAGMA IS SET.	<b>low</b>	acknowledged
<b>SWC-103</b>	A FLOATING PRAGMA IS SET.	<b>low</b>	acknowledged
<b>SWC-115</b>	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	<b>low</b>	acknowledged
<b>SWC-115</b>	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	<b>low</b>	acknowledged
<b>SWC-110</b>	OUT OF BOUNDS ARRAY ACCESS	<b>low</b>	acknowledged
<b>SWC-110</b>	OUT OF BOUNDS ARRAY ACCESS	<b>low</b>	acknowledged
<b>SWC-110</b>	OUT OF BOUNDS ARRAY ACCESS	<b>low</b>	acknowledged
<b>SWC-110</b>	OUT OF BOUNDS ARRAY ACCESS	<b>low</b>	acknowledged
<b>SWC-110</b>	OUT OF BOUNDS ARRAY ACCESS	<b>low</b>	acknowledged
<b>SWC-110</b>	OUT OF BOUNDS ARRAY ACCESS	<b>low</b>	acknowledged
<b>SWC-110</b>	OUT OF BOUNDS ARRAY ACCESS	<b>low</b>	acknowledged
<b>SWC-110</b>	OUT OF BOUNDS ARRAY ACCESS	<b>low</b>	acknowledged
<b>SWC-110</b>	OUT OF BOUNDS ARRAY ACCESS	<b>low</b>	acknowledged
<b>SWC-120</b>	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	<b>low</b>	acknowledged
<b>SWC-120</b>	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	<b>low</b>	acknowledged

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 60

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
59  uint index = map.indexOf[key];
60  uint lastIndex = map.keys.length - 1;
61  address lastKey = map.keys[lastIndex];
62
63  map.indexOf[lastKey] = index;
64
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 188

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
187     function add(uint256 a, uint256 b) internal pure returns (uint256) {  
188         uint256 c = a + b;  
189         require(c >= a, "SafeMath: addition overflow");  
190     }  
191     return c;  
192 }
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 220

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
219   require(b <= a, errorMessage);  
220   uint256 c = a - b;  
221  
222   return c;  
223   }  
224
```

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

LINE 243

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
242
243  uint256 c = a * b;
244  require(c / a == b, "SafeMath: multiplication overflow");
245
246  return c;
247
```



# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 244

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
243     uint256 c = a * b;  
244     require(c / a == b, "SafeMath: multiplication overflow");  
245  
246     return c;  
247 }  
248
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 279

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
278     require(b > 0, errorMessage);
279     uint256 c = a / b;
280     // assert(a == b * c + a % b); // There is no case in which this doesn't hold
281
282     return c;
283
```

# SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 315

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
314     require(b != 0, errorMessage);
315     return a % b;
316 }
317 }
318
319
```

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

LINE 331

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
330 function mul(int256 a, int256 b) internal pure returns (int256) {  
331     int256 c = a * b;  
332  
333     // Detect overflow when multiplying MIN_INT256 with -1  
334     require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));  
335 }
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 335

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
334   require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
335   require((b == 0) || (c / b == a));
336   return c;
337 }
338
339
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 347

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
346 // Solidity already throws when dividing by 0.  
347 return a / b;  
348 }  
349  
350 /**  
351
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 354

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
353     function sub(int256 a, int256 b) internal pure returns (int256) {  
354         int256 c = a - b;  
355         require((b >= 0 && c <= a) || (b < 0 && c > a));  
356         return c;  
357     }  
358
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 363

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
362 function add(int256 a, int256 b) internal pure returns (int256) {  
363     int256 c = a + b;  
364     require((b >= 0 && c >= a) || (b < 0 && c < a));  
365     return c;  
366 }  
367
```



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

LINE 891

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
890 // see https://github.com/ethereum/EIPs/issues/1726#issuecomment-472352728
891 uint256 constant internal magnitude = 2**128;
892
893 IRouter public router;
894 address public rewardToken;
895
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 930

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
929     magnifiedDividendPerShare = magnifiedDividendPerShare.add(  
930         (msg.value).mul(magnitude) / totalSupply()  
931     );  
932     emit DividendsDistributed(msg.sender, msg.value);  
933  
934
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 976

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
975
976   try router.swapExactETHForTokens{value: amt}(0, path, user, block.timestamp + 2){
977     return true;
978   } catch {
979     return false;
980
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1011

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1010     function accumulativeDividendOf(address _owner) public view override
returns(uint256) {
1011     return magnifiedDividendPerShare.mul(balanceOf(_owner)).toInt256Safe()
1012     .add(magnifiedDividendCorrections[_owner]).toUint256Safe() / magnitude;
1013 }
1014
1015
```

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

LINE 1098

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1097
1098     uint256 public swapTokensAtAmount = 1e9 * 10**9;
1099
1100     string private currentRewardToken;
1101
1102
```

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

LINE 1098

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1097
1098     uint256 public swapTokensAtAmount = 1e9 * 10**9;
1099
1100     string private currentRewardToken;
1101
1102
```

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

LINE 1175

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1174    */
1175    _tokengeneration(owner(), 1e12 * (10**9));
1176    }
1177
1178    receive() external payable {}
1179
```

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

LINE 1175

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1174  */
1175  _tokengeneration(owner(), 1e12 * (10**9));
1176  }
1177
1178  receive() external payable {}
1179
```



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

LINE 1244

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1243     {
1244     for (uint256 i = 0; i < accounts.length; i++) {
1245         _isExcludedFromFees[accounts[i]] = excluded;
1246     }
1247     emit ExcludeMultipleAccountsFromFees(accounts, excluded);
1248 }
```

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

LINE 1273

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1272     require(amount < 1e10,"Swap Threshold should be less than 1% of total supply");
1273     swapTokensAtAmount = amount * 10**9;
1274 }
1275
1276 /// @notice Enable or disable internal swaps
1277
```

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

LINE 1273

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1272     require(amount < 1e10,"Swap Threshold should be less than 1% of total supply");
1273     swapTokensAtAmount = amount * 10**9;
1274 }
1275
1276 /// @notice Enable or disable internal swaps
1277
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1426

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1425 bool canSwap = contractTokenBalance >= swapTokensAtAmount;  
1426 uint256 swapTax = sellTaxes.rewards +  
1427 sellTaxes.marketing +  
1428 sellTaxes.dev +  
1429 sellTaxes.liquidity ;  
1430
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1426

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1425 bool canSwap = contractTokenBalance >= swapTokensAtAmount;  
1426 uint256 swapTax = sellTaxes.rewards +  
1427 sellTaxes.marketing +  
1428 sellTaxes.dev +  
1429 sellTaxes.liquidity ;  
1430
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1426

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1425 bool canSwap = contractTokenBalance >= swapTokensAtAmount;  
1426 uint256 swapTax = sellTaxes.rewards +  
1427 sellTaxes.marketing +  
1428 sellTaxes.dev +  
1429 sellTaxes.liquidity ;  
1430
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1456

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1455     if (takeFee) {  
1456         bool beforeTradingFee = block.number <= startTradingBlock + antiBotBlocks;  
1457         uint256 swapAmt;  
1458         if (automatedMarketMakerPairs[to] && !beforeTradingFee) {  
1459             swapAmt = (amount * swapTax) / 100;  
1460         }
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1459

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1458     if (automatedMarketMakerPairs[to] && !beforeTradingFee) {  
1459         swapAmt = (amount * swapTax) / 100;  
1460     } else if (automatedMarketMakerPairs[from] && !beforeTradingFee) {  
1461         swapAmt =  
1462         (amount *  
1463
```



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

LINE 1459

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1458     if (automatedMarketMakerPairs[to] && !beforeTradingFee) {  
1459         swapAmt = (amount * swapTax) / 100;  
1460     } else if (automatedMarketMakerPairs[from] && !beforeTradingFee) {  
1461         swapAmt =  
1462         (amount *  
1463
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1462

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1461     swapAmt =  
1462     (amount *  
1463     (buyTaxes.rewards +  
1464     buyTaxes.marketing +  
1465     buyTaxes.dev +  
1466
```

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

LINE 1462

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1461     swapAmt =  
1462     (amount *  
1463     (buyTaxes.rewards +  
1464     buyTaxes.marketing +  
1465     buyTaxes.dev +  
1466
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1463

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1462 (amount *  
1463 (buyTaxes.rewards +  
1464 buyTaxes.marketing +  
1465 buyTaxes.dev +  
1466 buyTaxes.liquidity )) /  
1467
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1463

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1462 (amount *  
1463 (buyTaxes.rewards +  
1464 buyTaxes.marketing +  
1465 buyTaxes.dev +  
1466 buyTaxes.liquidity )) /  
1467
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1463

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1462 (amount *  
1463 (buyTaxes.rewards +  
1464 buyTaxes.marketing +  
1465 buyTaxes.dev +  
1466 buyTaxes.liquidity )) /  
1467
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1469

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1468     } else if (beforeTradingFee) {  
1469         swapAmt = (amount * launchtax) / 100;  
1470     }  
1471  
1472     amount = amount - (swapAmt);  
1473
```

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

LINE 1469

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1468     } else if (beforeTradingFee) {  
1469         swapAmt = (amount * launchtax) / 100;  
1470     }  
1471  
1472     amount = amount - (swapAmt);  
1473
```



# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1472

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1471
1472     amount = amount - (swapAmt);
1473     super._transfer(from, address(this), swapAmt);
1474 }
1475 super._transfer(from, to, amount);
1476
```

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

LINE 1502

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1501 // Split the contract balance into halves
1502 uint256 denominator = swapTax * 2;
1503 uint256 tokensToAddLiquidityWith = (tokens * sellTaxes.liquidity) / denominator;
1504 uint256 toSwap = tokens - tokensToAddLiquidityWith;
1505
1506
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1503

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1502     uint256 denominator = swapTax * 2;  
1503     uint256 tokensToAddLiquidityWith = (tokens * sellTaxes.liquidity) / denominator;  
1504     uint256 toSwap = tokens - tokensToAddLiquidityWith;  
1505  
1506     uint256 initialBalance = address(this).balance;  
1507
```

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

LINE 1503

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1502  uint256 denominator = swapTax * 2;  
1503  uint256 tokensToAddLiquidityWith = (tokens * sellTaxes.liquidity) / denominator;  
1504  uint256 toSwap = tokens - tokensToAddLiquidityWith;  
1505  
1506  uint256 initialBalance = address(this).balance;  
1507
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1504

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1503     uint256 tokensToAddLiquidityWith = (tokens * sellTaxes.liquidity) / denominator;  
1504     uint256 toSwap = tokens - tokensToAddLiquidityWith;  
1505  
1506     uint256 initialBalance = address(this).balance;  
1507  
1508
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1510

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1509
1510     uint256 deltaBalance = address(this).balance - initialBalance;
1511     uint256 unitBalance = deltaBalance / (denominator - sellTaxes.liquidity);
1512     uint256 bnbToAddLiquidityWith = unitBalance * sellTaxes.liquidity;
1513
1514
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1511

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1510     uint256 deltaBalance = address(this).balance - initialBalance;
1511     uint256 unitBalance = deltaBalance / (denominator - sellTaxes.liquidity);
1512     uint256 bnbToAddLiquidityWith = unitBalance * sellTaxes.liquidity;
1513
1514     if (bnbToAddLiquidityWith > 0) {
1515
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1511

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1510     uint256 deltaBalance = address(this).balance - initialBalance;
1511     uint256 unitBalance = deltaBalance / (denominator - sellTaxes.liquidity);
1512     uint256 bnbToAddLiquidityWith = unitBalance * sellTaxes.liquidity;
1513
1514     if (bnbToAddLiquidityWith > 0) {
1515
```



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

LINE 1512

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1511     uint256 unitBalance = deltaBalance / (denominator - sellTaxes.liquidity);
1512     uint256 bnbToAddLiquidityWith = unitBalance * sellTaxes.liquidity;
1513
1514     if (bnbToAddLiquidityWith > 0) {
1515         // Add liquidity to pancake
1516     }
```

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

LINE 1520

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1519 // Send BNB to marketingWallet
1520 uint256 marketingWalletAmt = unitBalance * 2 * sellTaxes.marketing;
1521 if (marketingWalletAmt > 0) {
1522     payable(marketingWallet).sendValue(marketingWalletAmt);
1523 }
1524
```

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

LINE 1520

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1519 // Send BNB to marketingWallet
1520 uint256 marketingWalletAmt = unitBalance * 2 * sellTaxes.marketing;
1521 if (marketingWalletAmt > 0) {
1522     payable(marketingWallet).sendValue(marketingWalletAmt);
1523 }
1524
```

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

LINE 1526

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1525 // Send BNB to devWallet
1526 uint256 devWalletAmt = unitBalance * 2 * sellTaxes.dev;
1527 if (devWalletAmt > 0) {
1528     payable(devWallet).sendValue(devWalletAmt);
1529 }
1530
```

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

LINE 1526

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1525 // Send BNB to devWallet
1526 uint256 devWalletAmt = unitBalance * 2 * sellTaxes.dev;
1527 if (devWalletAmt > 0) {
1528     payable(devWallet).sendValue(devWalletAmt);
1529 }
1530
```

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

LINE 1532

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1531 // Send BNB to rewardsContract
1532 uint256 dividends = unitBalance * 2 * sellTaxes.rewards;
1533 if (dividends > 0) {
1534     (bool success, ) = address(dividendTracker).call{ value: dividends }("");
1535     if (success) emit SendDividends(tokens, dividends);
1536 }
```

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

LINE 1532

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1531 // Send BNB to rewardsContract
1532 uint256 dividends = unitBalance * 2 * sellTaxes.rewards;
1533 if (dividends > 0) {
1534     (bool success, ) = address(dividendTracker).call{ value: dividends }("");
1535     if (success) emit SendDividends(tokens, dividends);
1536 }
```

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

LINE 1596

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1595     claimWait = 3600;  
1596     minimumTokenBalanceForDividends = 100000 * (10**decimals());  
1597 }  
1598  
1599     function _transfer(  
1600
```



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

LINE 1596

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1595   claimWait = 3600;  
1596   minimumTokenBalanceForDividends = 100000 * (10**decimals());  
1597   }  
1598  
1599   function _transfer(  
1600
```

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

LINE 1608

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1607     function setMinBalanceForDividends(uint256 amount) external onlyOwner {
1608         minimumTokenBalanceForDividends = amount * 10**decimals();
1609     }
1610
1611     function excludeFromDividends(address account, bool value) external onlyOwner {
1612
```

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

LINE 1608

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1607     function setMinBalanceForDividends(uint256 amount) external onlyOwner {
1608         minimumTokenBalanceForDividends = amount * 10**decimals();
1609     }
1610
1611     function excludeFromDividends(address account, bool value) external onlyOwner {
1612
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1678

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1677
1678     iterationsUntilProcessed = index + (int256(processesUntilEndOfArray));
1679 }
1680 }
1681
1682
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1687

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1686
1687     nextClaimTime = lastClaimTime > 0 ? lastClaimTime + (claimWait) : 0;
1688
1689     secondsUntilAutoClaimAvailable = nextClaimTime > block.timestamp
1690     ? nextClaimTime.sub(block.timestamp)
1691
```

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

LINE 1765

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1764 while (gasUsed < gas && iterations < numberOfTokenHolders) {  
1765   _lastProcessedIndex++;  
1766  
1767   if (_lastProcessedIndex >= tokenHoldersMap.keys.length) {  
1768     _lastProcessedIndex = 0;  
1769   }
```

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

LINE 1775

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1774     if (processAccount(payable(account), true)) {  
1775         claims++;  
1776     }  
1777 }  
1778  
1779
```

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

LINE 1779

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1778
1779     iterations++;
1780
1781     uint256 newGasLeft = gasleft();
1782
1783
```



# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1784

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
1783     if (gasLeft > newGasLeft) {  
1784         gasUsed = gasUsed + (gasLeft.sub(newGasLeft));  
1785     }  
1786  
1787     gasLeft = newGasLeft;  
1788
```

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

LINE 60

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
59  uint index = map.indexOf[key];  
60  uint lastIndex = map.keys.length - 1;  
61  address lastKey = map.keys[lastIndex];  
62  
63  map.indexOf[lastKey] = index;  
64
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 8

### low SEVERITY

The current pragma Solidity directive is `""^0.8.6""`. 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

- Tuzi2023.sol

### Locations

```
7
8  pragma solidity ^0.8.6;
9
10 library IterableMapping {
11     // Iterable mapping from address to uint;
12
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 74

### low SEVERITY

The current pragma Solidity directive is `""^0.8.6""`. 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

- Tuzi2023.sol

### Locations

```
73
74  pragma solidity ^0.8.6;
75
76  interface IPair {
77      function sync() external;
78
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 121

### low SEVERITY

The current pragma Solidity directive is `""^0.8.6""`. 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

- Tuzi2023.sol

### Locations

```
120
121  pragma solidity ^0.8.6;
122
123
124  /// @title Dividend-Paying Token Interface
125
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 174

### low SEVERITY

The current pragma Solidity directive is `""^0.8.6""`. 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

- Tuzi2023.sol

### Locations

```
173
174  pragma solidity ^0.8.6;
175
176  library SafeMath {
177    /**
178
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 398

### low SEVERITY

The current pragma Solidity directive is `""^0.8.6""`. 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

- Tuzi2023.sol

### Locations

```
397
398  pragma solidity ^0.8.6;
399
400  /*
401   * @dev Provides information about the current execution context, including the
402
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 422

### low SEVERITY

The current pragma Solidity directive is `""^0.8.6""`. 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

- Tuzi2023.sol

### Locations

```
421
422  pragma solidity ^0.8.6;
423
424
425
426
```



## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 481

### low SEVERITY

The current pragma Solidity directive is `""^0.8.6""`. 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

- Tuzi2023.sol

### Locations

```
480
481  pragma solidity ^0.8.6;
482
483  /**
484   * @dev Interface of the ERC20 standard as defined in the EIP.
485
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 586

### low SEVERITY

The current pragma Solidity directive is `""^0.8.6""`. 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

- Tuzi2023.sol

### Locations

```
585
586  pragma solidity ^0.8.6;
587
588
589
590
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 875

### low SEVERITY

The current pragma Solidity directive is `""^0.8.6""`. 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

- Tuzi2023.sol

### Locations

```
874
875  pragma solidity ^0.8.6;
876
877
878
879
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 1066

### low SEVERITY

The current pragma Solidity directive is `""^0.8.17"`. 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

- Tuzi2023.sol

### Locations

```
1065
1066  pragma solidity ^0.8.17;
1067
1068
1069
1070
```

# SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 1201

## low SEVERITY

Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

## Source File

- Tuzi2023.sol

## Locations

```
1200     gas,  
1201     tx.origin  
1202   );  
1203   }  
1204  
1205
```

# SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 1494

## low SEVERITY

Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

## Source File

- Tuzi2023.sol

## Locations

```
1493     gas,  
1494     tx.origin  
1495   );  
1496   } catch {}  
1497   }  
1498
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 31

### low SEVERITY

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

### Source File

- Tuzi2023.sol

### Locations

```
30  function getKeyAtIndex(Map storage map, uint index) public view returns (address) {  
31  return map.keys[index];  
32  }  
33  
34  
35
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 61

### low SEVERITY

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

### Source File

- Tuzi2023.sol

### Locations

```
60  uint lastIndex = map.keys.length - 1;  
61  address lastKey = map.keys[lastIndex];  
62  
63  map.indexOf[lastKey] = index;  
64  delete map.indexOf[key];  
65
```



## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 66

### low SEVERITY

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

### Source File

- Tuzi2023.sol

### Locations

```
65
66  map.keys[index] = lastKey;
67  map.keys.pop();
68  }
69  }
70
```

# SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 973

## low SEVERITY

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

## Source File

- Tuzi2023.sol

## Locations

```
972     address[] memory path = new address[](2);
973     path[0] = router.WETH();
974     path[1] = rewardToken;
975
976     try router.swapExactETHForTokens{value: amt}(0, path, user, block.timestamp + 2){
977
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 974

### low SEVERITY

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

### Source File

- Tuzi2023.sol

### Locations

```
973  path[0] = router.WETH();  
974  path[1] = rewardToken;  
975  
976  try router.swapExactETHForTokens{value: amt}(0, path, user, block.timestamp + 2){  
977    return true;  
978
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1245

### low SEVERITY

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

### Source File

- Tuzi2023.sol

### Locations

```
1244   for (uint256 i = 0; i < accounts.length; i++) {  
1245       _isExcludedFromFees[accounts[i]] = excluded;  
1246   }  
1247   emit ExcludeMultipleAccountsFromFees(accounts, excluded);  
1248   }  
1249
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1541

### low SEVERITY

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

### Source File

- Tuzi2023.sol

### Locations

```
1540     address[] memory path = new address[](2);  
1541     path[0] = address(this);  
1542     path[1] = router.WETH();  
1543  
1544     _approve(address(this), address(router), tokenAmount);  
1545
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1542

### low SEVERITY

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

### Source File

- Tuzi2023.sol

### Locations

```
1541 path[0] = address(this);
1542 path[1] = router.WETH();
1543
1544 _approve(address(this), address(router), tokenAmount);
1545
1546
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1771

### low SEVERITY

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

### Source File

- Tuzi2023.sol

### Locations

```
1770
1771     address account = tokenHoldersMap.keys[_lastProcessedIndex];
1772
1773     if (canAutoClaim(lastClaimTimes[account])) {
1774         if (processAccount payable(account), true) {
1775
```

## SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 1285

### low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

### Source File

- Tuzi2023.sol

### Locations

```
1284     tradingEnabled = true;
1285     startTradingBlock = block.number;
1286 }
1287
1288     function setAntiBotBlocks(uint256 numberOfBlocks) external onlyOwner{
1289
```



## SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 1456

### low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

### Source File

- Tuzi2023.sol

### Locations

```
1455     if (takeFee) {  
1456         bool beforeTradingFee = block.number <= startTradingBlock + antiBotBlocks;  
1457         uint256 swapAmt;  
1458         if (automatedMarketMakerPairs[to] && !beforeTradingFee) {  
1459             swapAmt = (amount * swapTax) / 100;  
1460         }
```

# DISCLAIMER

This report is subject to the terms and conditions (including without limitation, description of services, confidentiality, disclaimer and limitation of liability) set forth in the Services Agreement, or the scope of services, and terms and conditions provided to you ("Customer" or the "Company") in connection with the Agreement. This report provided in connection with the Services set forth in the Agreement shall be used by the Company only to the extent permitted under the terms and conditions set forth in the Agreement. This report may not be transmitted, disclosed, referred to, or relied upon by any person for any purposes, nor may copies be delivered to any other person other than the Company, without Sysfixed's prior written consent in each instance.

This report is not, nor should be considered, an "endorsement" or "disapproval" of any particular project or team. This report is not, nor should be considered, an indication of the economics or value of any "product" or "asset" created by any team or project that contracts Sysfixed to perform a security assessment. This report does not provide any warranty or guarantee regarding the absolute bug-free nature of the technology analyzed, nor do they provide any indication of the technologies proprietors, business, business model, or legal compliance.

This is a limited report on our findings based on our analysis, in accordance with good industry practice as of 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 below disclaimer below – please make sure to read it in full.

This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

This report is provided for information purposes only and on a non-reliance basis and does not constitute investment advice. No one shall have any right to rely on the report or its contents, and Sysfixed and its affiliates (including holding companies, shareholders, subsidiaries, employees, directors, officers, and other representatives) (Sysfixed) owe no duty of care.

## ABOUT US

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.