

TABI

Smart Contract Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
TABI	TABI	Ethereum	

Addresses

Contract address	0x2FB78643AB4470D0Fe42d2432f38805C4cd60212
Contract deployer address	0xffE6830eE2e4CAF60911bcb623038c21B49aAab6

Project Website

https://www.tabinekokiki.com/

Codebase

https://etherscan.io/address/0x2FB78643AB4470D0Fe42d2432f38805C4cd60212#code



SUMMARY

"Tsubasa is your identity in the metaverse we build together, where you can free yourself, your passion, your love, your enthusiasm, let them all out. We are healing, we are non-binary, free from definitions, we are here to break barriers, remove labels, abandon stereotypes, to understand, to feel, to love. Together we connect, we build, we support, we be our true selves and create a free world belongs to all, no matter the genders, races, religions, classes, and species."

Contract Summary

Documentation Quality

TABI 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 TABI 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 957.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 213, 227, 242, 243, 256, 268, 283, 297, 311, 325, 341, 364, 387, 413, 998, 998, 998, 998, 1007, 1007, 1019, 1203, 1205, 1249, 1249, 1249, 1260, 1260, 1260, 1260, 1367, 1401, 1409, 1418 and 1205.
- 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 1204, 1205, 1205, 1369, 1370, 1372, 1373, 1521 and 1522.



CONCLUSION

We have audited the TABI project released on April 2022 to discover issues and identify potential security vulnerabilities in TABI 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 TABI 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.



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.		
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.	it 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.	er reach a 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.	
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.	
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/.	
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.	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.	
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	Thursday Apr 07 2022 19:20:18 GMT+0000 (Coordinated Universal Time)		
Finished	Friday Apr 08 2022 15:01:36 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	LiquidityGeneratorToken.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



ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 213

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
212  unchecked {
213  uint256 c = a + b;
214  if (c < a) return (false, 0);
215  return (true, c);
216  }
217</pre>
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 227

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
226  if (b > a) return (false, 0);
227  return (true, a - b);
228  }
229  }
230
231
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 242

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
241 if (a == 0) return (true, 0);

242 uint256 c = a * b;

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

244 return (true, c);

245 }

246
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 243

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
242  uint256 c = a * b;

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

244  return (true, c);

245  }

246  }

247
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 256

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
255 if (b == 0) return (false, 0);
256 return (true, a / b);
257 }
258 }
259
260
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 268

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
267 if (b == 0) return (false, 0);
268 return (true, a % b);
269 }
270 }
271
272
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 283

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
282 function add(uint256 a, uint256 b) internal pure returns (uint256) {
283  return a + b;
284  }
285
286  /**
287
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 297

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
296 function sub(uint256 a, uint256 b) internal pure returns (uint256) {
297 return a - b;
298 }
299
300 /**
301
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 311

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
310 function mul(uint256 a, uint256 b) internal pure returns (uint256) {
311 return a * b;
312 }
313
314 /**
315
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 325

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
324 function div(uint256 a, uint256 b) internal pure returns (uint256) {
325    return a / b;
326 }
327
328    /**
329
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 341

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
340 function mod(uint256 a, uint256 b) internal pure returns (uint256) {
341  return a % b;
342  }
343
344  /**
345
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 364

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
363  require(b <= a, errorMessage);
364  return a - b;
365  }
366  }
367
368</pre>
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 387

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
386  require(b > 0, errorMessage);
387  return a / b;
388  }
389  }
390
391
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 413

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
412 require(b > 0, errorMessage);
413 return a % b;
414 }
415 }
416 }
417
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 998

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
997 require(
998 taxFeeBps_ + liquidityFeeBps_ + charityFeeBps_ <= 10**4 / 4,
999 "Total fee is over 25%"
1000 );
1001
1002</pre>
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 998

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
997 require(
998 taxFeeBps_ + liquidityFeeBps_ + charityFeeBps_ <= 10**4 / 4,
999 "Total fee is over 25%"
1000 );
1001
1002</pre>
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 998

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
997 require(
998 taxFeeBps_ + liquidityFeeBps_ + charityFeeBps_ <= 10**4 / 4,
999 "Total fee is over 25%"
1000 );
1001
1002</pre>
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 998

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
997 require(
998 taxFeeBps_ + liquidityFeeBps_ + charityFeeBps_ <= 10**4 / 4,
999 "Total fee is over 25%"
1000 );
1001
1002</pre>
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1007

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1006   _tTotal = totalSupply_;
1007    _rTotal = (MAX - (MAX % _tTotal));
1008
1009    _taxFee = taxFeeBps_;
1010    _previousTaxFee = _taxFee;
1011
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 1007

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1006   _tTotal = totalSupply_;
1007   _rTotal = (MAX - (MAX % _tTotal));
1008
1009   _taxFee = taxFeeBps_;
1010   _previousTaxFee = _taxFee;
1011
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1019

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1018
1019  numTokensSellToAddToLiquidity = totalSupply_.mul(5).div(10**4); // 0.05%
1020
1021  swapAndLiquifyEnabled = true;
1022
1023
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1203

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
require(_isExcluded[account], "Account is already excluded");
for (uint256 i = 0; i < _excluded.length; i++) {
  if (_excluded[i] == account) {
    _excluded[i] = _excluded.length - 1];
    _tOwned[account] = 0;
}</pre>
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1205

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1204  if (_excluded[i] == account) {
1205    _excluded[i] = _excluded[_excluded.length - 1];
1206    _t0wned[account] = 0;
1207    _isExcluded[account] = false;
1208    _excluded.pop();
1209
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1249

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1248  require(
1249  _taxFee + _liquidityFee + _charityFee <= 10**4 / 4,
1250  "Total fee is over 25%"
1251  );
1252  }
1253</pre>
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1249

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1248  require(
1249  _taxFee + _liquidityFee + _charityFee <= 10**4 / 4,
1250  "Total fee is over 25%"
1251  );
1252  }
1253</pre>
```



LINE 1249

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1248  require(
1249  _taxFee + _liquidityFee + _charityFee <= 10**4 / 4,
1250  "Total fee is over 25%"
1251  );
1252  }
1253</pre>
```



LINE 1249

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1248  require(
1249  _taxFee + _liquidityFee + _charityFee <= 10**4 / 4,
1250  "Total fee is over 25%"
1251  );
1252  }
1253</pre>
```



LINE 1260

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1259 require(
1260 _taxFee + _liquidityFee + _charityFee <= 10**4 / 4,
1261 "Total fee is over 25%"
1262 );
1263 }
1264</pre>
```



LINE 1260

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1259 require(
1260 _taxFee + _liquidityFee + _charityFee <= 10**4 / 4,
1261 "Total fee is over 25%"
1262 );
1263 }
1264</pre>
```



LINE 1260

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1259 require(
1260 _taxFee + _liquidityFee + _charityFee <= 10**4 / 4,
1261 "Total fee is over 25%"
1262 );
1263 }
1264</pre>
```



LINE 1260

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1259 require(
1260 _taxFee + _liquidityFee + _charityFee <= 10**4 / 4,
1261 "Total fee is over 25%"
1262 );
1263 }
1264</pre>
```



LINE 1367

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol



LINE 1401

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1400 function calculateTaxFee(uint256 _amount) private view returns (uint256) {
1401  return _amount.mul(_taxFee).div(10**4);
1402  }
1403
1404  function calculateLiquidityFee(uint256 _amount)
1405
```



LINE 1409

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1408 {
1409  return _amount.mul(_liquidityFee).div(10**4);
1410 }
1411
1412  function calculateCharityFee(uint256 _amount)
1413
```



LINE 1418

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1417  if (_charityAddress == address(0)) return 0;
1418  return _amount.mul(_charityFee).div(10**4);
1419  }
1420
1421  function removeAllFee() private {
1422
```



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

LINE 1205

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 957

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
956
957 bool inSwapAndLiquify;
958 bool public swapAndLiquifyEnabled;
959
960 uint256 private numTokensSellToAddToLiquidity;
961
```



LINE 1204

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol



LINE 1205

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1204  if (_excluded[i] == account) {
1205    _excluded[i] = _excluded[_excluded.length - 1];
1206    _t0wned[account] = 0;
1207    _isExcluded[account] = false;
1208    _excluded.pop();
1209
```



LINE 1205

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1204  if (_excluded[i] == account) {
1205    _excluded[i] = _excluded[_excluded.length - 1];
1206    _t0wned[account] = 0;
1207    _isExcluded[account] = false;
1208    _excluded.pop();
1209
```



LINE 1369

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1368 if (
1369    _rOwned[_excluded[i]] > rSupply ||
1370    _tOwned[_excluded[i]] > tSupply
1371 ) return (_rTotal, _tTotal);
1372    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1373
```



LINE 1370

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1369    _rOwned[_excluded[i]] > rSupply ||
1370    _tOwned[_excluded[i]] > tSupply
1371    ) return (_rTotal, _tTotal);
1372    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1373    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1374
```



LINE 1372

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1371  ) return (_rTotal, _tTotal);
1372  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1373  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1374  }
1375  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1376</pre>
```



LINE 1373

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1372  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1373  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1374  }
1375  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1376  return (rSupply, tSupply);
1377</pre>
```



LINE 1521

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
address[] memory path = new address[](2);
1521  path[0] = address(this);
1522  path[1] = uniswapV2Router.WETH();
1523
1524  _approve(address(this), address(uniswapV2Router), tokenAmount);
1525
```



LINE 1522

low SEVERITY

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

Source File

- LiquidityGeneratorToken.sol

```
1521 path[0] = address(this);
1522 path[1] = uniswapV2Router.WETH();
1523
1524 _approve(address(this), address(uniswapV2Router), tokenAmount);
1525
1526
```



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