

LUFFY

Smart Contract Audit Report



15 Mar 2023



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AUDITED DETAILS

| Audited Project

Project name	Token ticker	Blockchain	
LUFFY	LUFFY	Binance Smart Chain	

Addresses

Contract address	0x54012cdf4119de84218f7eb90eeb87e25ae6ebd7	
Contract deployer address	0xcC8a10E665856952620bCf5943f4724225590d6E	

Project Website

https://checkdot.io/

Codebase

https://bscscan.com/address/0x54012cdf4119de84218f7eb90eeb87e25ae6ebd7#code



SUMMARY

CheckDot is designed to be the ultimate blockchain technology tool for end-users and developers, offering a various range of services that can help, simplify and innovates customers experience on cryptocurrency and blockchain world.

Contract Summary

Documentation Quality

LUFFY 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 LUFFY 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 614, 650, 673, 674, 713, 752, 1088, 1091, 1187, 1188, 1188, 1190, 1190, 1191, 1191, 1192, 1192, 1197, 1197, 1202, 1202, 1254, 1254, 1258, 1258, 1267, 1267, 1267, 1270, 1270, 1275, 1275, 1275, 1278, 1278, 1301, 1301, 1313, 1313, 1404, 1419, 1449, 1468, 1468, 1468, 1469, 1469, 1469, 1470, 1470, 1470, 1475, 1475, 1475, 1476, 1476, 1476, 1477, 1477, 1477, 1492, 1496, 1536, 1580, 1581, 1588, 1589, 1593, 1593, 1593, 1608, 1681 and 1713.
- 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 1123, 1537, 1537, 1539, 1540, 1549, 1550, 1712 and 1712.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 1228, 1449, 1653, 1681 and 1685.



CONCLUSION

We have audited the LUFFY project released on January 2023 to discover issues and identify potential security vulnerabilities in LUFFY 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 LUFFY 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 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 the potential use of "block.number" as a source of randomness. The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gas limit, 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 the use of these variables introduces a certain level of trust in miners.



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.	f the PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	PASS	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS	
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.		
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.		
Reentrancy	SWC-107 Check effect interaction pattern should be followed if the code performs recursive call.		PASS	
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS	
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach 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	5 tx.origin should not be used for authorization.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id	
Incorrect Constructor Name	SWC-118		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
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 When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.		PASS	
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS



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



SMART CONTRACT ANALYSIS

Started	Tuesday Mar 14 2023 23:30:08 GMT+0000 (Coordinated Universal Time)		
Finished	Wednesday Mar 15 2023 21:45:57 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	LuffyToken.sol		

Detected Issues

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



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



SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	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-110	PUBLIC STATE VARIABLE WITH ARRAY TYPE CAUSING REACHABLE EXCEPTION BY DEFAULT.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged



LINE 614

low SEVERITY

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

Source File

- LuffyToken.sol

```
function add(uint256 a, uint256 b) internal pure returns (uint256) {
   uint256 c = a + b;
   require(c >= a, "SafeMath: addition overflow");
   return c;
   return c;
  return c;
   return c;
   return c;
   return c;
   return c;
  return c;
   return c;
   return c;
   return c;
   return c;
  r
```



LINE 650

low SEVERITY

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

Source File

- LuffyToken.sol

```
649 require(b <= a, errorMessage);
650 uint256 c = a - b;
651
652 return c;
653 }
654
```



LINE 673

low SEVERITY

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

Source File

- LuffyToken.sol

```
672
673  uint256 c = a * b;
674  require(c / a == b, "SafeMath: multiplication overflow");
675
676  return c;
677
```



LINE 674

low SEVERITY

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

Source File

- LuffyToken.sol

```
673    uint256    c = a * b;
674    require(c / a == b, "SafeMath: multiplication overflow");
675
676    return c;
677    }
678
```



LINE 713

low SEVERITY

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

Source File

- LuffyToken.sol

```
712 require(b > 0, errorMessage);
713 uint256 c = a / b;
714
715 return c;
716 }
717
```



LINE 752

low SEVERITY

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

Source File

- LuffyToken.sol

```
751 require(b != 0, errorMessage);
752 return a % b;
753 }
754 }
755
756
```



LINE 1088

low SEVERITY

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

Source File

- LuffyToken.sol

```
bool public lpBurnEnabled = true;

1088  uint256 public lpBurnFrequency = 3600 / 12;

1089  uint256 public lastLpBurnTime;

1090

1091  uint256 public manualBurnFrequency = 180000 / 12;

1092
```



LINE 1091

low SEVERITY

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

Source File

- LuffyToken.sol

```
1090
1091  uint256 public manualBurnFrequency = 180000 / 12;
1092  uint256 public lastManualLpBurnTime;
1093
1094  bool public limitsInEffect = true;
1095
```



LINE 1187

low SEVERITY

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

Source File

- LuffyToken.sol

```
1186   //tTotal = x * 1e9;
1187   tTotal = 100000000000 * 1e9;
1188   _rTotal = (MAX - (MAX % tTotal));
1189
1190   maxTransactionAmount = (tTotal * 50) / 1000; // 5% maxTransactionAmountTxn
1191
```



LINE 1188

low SEVERITY

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

Source File

- LuffyToken.sol

```
1187    tTotal = 100000000000 * 1e9;
1188    _rTotal = (MAX - (MAX % tTotal));
1189
1190    maxTransactionAmount = (tTotal * 50) / 1000; // 5% maxTransactionAmountTxn
1191    maxWallet = (tTotal * 70) / 1000; // 7% maxWallet
1192
```



LINE 1188

low SEVERITY

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

Source File

- LuffyToken.sol

```
1187    tTotal = 100000000000 * 1e9;
1188    _rTotal = (MAX - (MAX % tTotal));
1189
1190    maxTransactionAmount = (tTotal * 50) / 1000; // 5% maxTransactionAmountTxn
1191    maxWallet = (tTotal * 70) / 1000; // 7% maxWallet
1192
```



LINE 1190

low SEVERITY

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

Source File

- LuffyToken.sol

```
1189

1190 maxTransactionAmount = (tTotal * 50) / 1000; // 5% maxTransactionAmountTxn

1191 maxWallet = (tTotal * 70) / 1000; // 7% maxWallet

1192 swapTokensAtAmount = (tTotal * 5) / 10000; // 0.005% swap wallet

1193

1194
```



LINE 1190

low SEVERITY

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

Source File

- LuffyToken.sol

```
1189
1190    maxTransactionAmount = (tTotal * 50) / 1000; // 5% maxTransactionAmountTxn
1191    maxWallet = (tTotal * 70) / 1000; // 7% maxWallet
1192    swapTokensAtAmount = (tTotal * 5) / 10000; // 0.005% swap wallet
1193
1194
```



LINE 1191

low SEVERITY

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

Source File

- LuffyToken.sol

```
1190  maxTransactionAmount = (tTotal * 50) / 1000; // 5% maxTransactionAmountTxn
1191  maxWallet = (tTotal * 70) / 1000; // 7% maxWallet
1192  swapTokensAtAmount = (tTotal * 5) / 10000; // 0.005% swap wallet
1193
1194  buyMarketingFee = _buyMarketingFee;
1195
```



LINE 1191

low SEVERITY

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

Source File

- LuffyToken.sol

```
1190  maxTransactionAmount = (tTotal * 50) / 1000; // 5% maxTransactionAmountTxn
1191  maxWallet = (tTotal * 70) / 1000; // 7% maxWallet
1192  swapTokensAtAmount = (tTotal * 5) / 10000; // 0.005% swap wallet
1193
1194  buyMarketingFee = _buyMarketingFee;
1195
```



LINE 1192

low SEVERITY

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

Source File

- LuffyToken.sol

```
1191 maxWallet = (tTotal * 70) / 1000; // 7% maxWallet
1192 swapTokensAtAmount = (tTotal * 5) / 10000; // 0.005% swap wallet
1193
1194 buyMarketingFee = _buyMarketingFee;
1195 buyLiquidityFee = _buyLiquidityFee;
1196
```



LINE 1192

low SEVERITY

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

Source File

- LuffyToken.sol

```
1191 maxWallet = (tTotal * 70) / 1000; // 7% maxWallet
1192 swapTokensAtAmount = (tTotal * 5) / 10000; // 0.005% swap wallet
1193
1194 buyMarketingFee = _buyMarketingFee;
1195 buyLiquidityFee = _buyLiquidityFee;
1196
```



LINE 1197

low SEVERITY

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

Source File

- LuffyToken.sol

```
1196 buyBurnFee = _buyBurnFee;
1197 buyTotalFees = buyMarketingFee + buyLiquidityFee + buyBurnFee;
1198
1199 sellMarketingFee = _sellMarketingFee;
1200 sellLiquidityFee = _sellLiquidityFee;
1201
```



LINE 1197

low SEVERITY

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

Source File

- LuffyToken.sol

```
1196 buyBurnFee = _buyBurnFee;
1197 buyTotalFees = buyMarketingFee + buyLiquidityFee + buyBurnFee;
1198
1199 sellMarketingFee = _sellMarketingFee;
1200 sellLiquidityFee = _sellLiquidityFee;
1201
```



LINE 1202

low SEVERITY

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

Source File

- LuffyToken.sol

```
1201  sellBurnFee = _sellBurnFee;
1202  sellTotalFees = sellMarketingFee + sellLiquidityFee + sellBurnFee;
1203
1204  marketingWallet = address(owner()); // set as marketing wallet
1205
1206
```



LINE 1202

low SEVERITY

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

Source File

- LuffyToken.sol

```
1201  sellBurnFee = _sellBurnFee;
1202  sellTotalFees = sellMarketingFee + sellLiquidityFee + sellBurnFee;
1203
1204  marketingWallet = address(owner()); // set as marketing wallet
1205
1206
```



LINE 1254

low SEVERITY

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

Source File

- LuffyToken.sol

```
1253 require(
1254 newAmount >= (totalSupply() * 1) / 100000,
1255 "Swap amount cannot be lower than 0.001% total supply."
1256 );
1257 require(
1258
```



LINE 1254

low SEVERITY

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

Source File

- LuffyToken.sol

```
1253 require(
1254 newAmount >= (totalSupply() * 1) / 100000,
1255 "Swap amount cannot be lower than 0.001% total supply."
1256 );
1257 require(
1258
```



LINE 1258

low SEVERITY

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

Source File

- LuffyToken.sol

```
1257 require(
1258 newAmount <= (totalSupply() * 5) / 1000,
1259 "Swap amount cannot be higher than 0.5% total supply."
1260 );
1261 swapTokensAtAmount = newAmount;
1262</pre>
```



LINE 1258

low SEVERITY

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

Source File

- LuffyToken.sol

```
1257 require(
1258 newAmount <= (totalSupply() * 5) / 1000,
1259 "Swap amount cannot be higher than 0.5% total supply."
1260 );
1261 swapTokensAtAmount = newAmount;
1262</pre>
```



LINE 1267

low SEVERITY

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

Source File

- LuffyToken.sol

```
1266 require(
1267 newNum >= ((totalSupply() * 1) / 1000) / 1e9,
1268 "Cannot set maxTransactionAmount lower than 0.1%"
1269 );
1270 maxTransactionAmount = newNum * (10**9);
1271
```



LINE 1267

low SEVERITY

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

Source File

- LuffyToken.sol

```
1266 require(
1267 newNum >= ((totalSupply() * 1) / 1000) / 1e9,
1268 "Cannot set maxTransactionAmount lower than 0.1%"
1269 );
1270 maxTransactionAmount = newNum * (10**9);
1271
```



LINE 1267

low SEVERITY

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

Source File

- LuffyToken.sol

```
1266 require(
1267 newNum >= ((totalSupply() * 1) / 1000) / 1e9,
1268 "Cannot set maxTransactionAmount lower than 0.1%"
1269 );
1270 maxTransactionAmount = newNum * (10**9);
1271
```



LINE 1270

low SEVERITY

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

Source File

- LuffyToken.sol

```
1269 );
1270 maxTransactionAmount = newNum * (10**9);
1271 }
1272
1273 function updateMaxWalletAmount(uint256 newNum) external onlyOwner {
1274
```



LINE 1270

low SEVERITY

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

Source File

- LuffyToken.sol

```
1269 );
1270 maxTransactionAmount = newNum * (10**9);
1271 }
1272
1273 function updateMaxWalletAmount(uint256 newNum) external onlyOwner {
1274
```



LINE 1275

low SEVERITY

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

Source File

- LuffyToken.sol

```
1274 require(
1275 newNum >= ((totalSupply() * 5) / 1000) / 1e9,
1276 "Cannot set maxWallet lower than 0.5%"
1277 );
1278 maxWallet = newNum * (10**9);
1279
```



LINE 1275

low SEVERITY

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

Source File

- LuffyToken.sol

```
1274 require(
1275 newNum >= ((totalSupply() * 5) / 1000) / 1e9,
1276 "Cannot set maxWallet lower than 0.5%"
1277 );
1278 maxWallet = newNum * (10**9);
1279
```



LINE 1275

low SEVERITY

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

Source File

- LuffyToken.sol

```
1274 require(
1275 newNum >= ((totalSupply() * 5) / 1000) / 1e9,
1276 "Cannot set maxWallet lower than 0.5%"
1277 );
1278 maxWallet = newNum * (10**9);
1279
```



LINE 1278

low SEVERITY

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

Source File

- LuffyToken.sol

```
1277 );
1278 maxWallet = newNum * (10**9);
1279 }
1280
1281 function excludeFromMaxTransaction(address updAds, bool isEx)
1282
```



LINE 1278

low SEVERITY

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

Source File

- LuffyToken.sol

```
1277 );
1278 maxWallet = newNum * (10**9);
1279 }
1280
1281 function excludeFromMaxTransaction(address updAds, bool isEx)
1282
```



LINE 1301

low SEVERITY

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

Source File

- LuffyToken.sol

```
1300 buyBurnFee = _burnFee;
1301 buyTotalFees = buyMarketingFee + buyLiquidityFee + buyBurnFee;
1302 require(buyTotalFees <= 10, "Must keep fees at 10% or less");
1303 }
1304
1305</pre>
```



LINE 1301

low SEVERITY

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

Source File

- LuffyToken.sol

```
1300 buyBurnFee = _burnFee;
1301 buyTotalFees = buyMarketingFee + buyLiquidityFee + buyBurnFee;
1302 require(buyTotalFees <= 10, "Must keep fees at 10% or less");
1303 }
1304
1305</pre>
```



LINE 1313

low SEVERITY

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

Source File

- LuffyToken.sol

```
1312  sellBurnFee = _burnFee;
1313  sellTotalFees = sellMarketingFee + sellLiquidityFee + sellBurnFee;
1314  require(sellTotalFees <= 10, "Must keep fees at 10% or less");
1315  }
1316
1317</pre>
```



LINE 1313

low SEVERITY

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

Source File

- LuffyToken.sol

```
1312  sellBurnFee = _burnFee;
1313  sellTotalFees = sellMarketingFee + sellLiquidityFee + sellBurnFee;
1314  require(sellTotalFees <= 10, "Must keep fees at 10% or less");
1315  }
1316
1317</pre>
```



LINE 1404

low SEVERITY

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

Source File

- LuffyToken.sol

```
1403 require(
1404 amount + balanceOf(to) <= maxWallet,
1405 "Max wallet exceeded"
1406 );
1407 }
1408</pre>
```



LINE 1419

low SEVERITY

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

Source File

- LuffyToken.sol

```
1418 require(
1419 amount + balanceOf(to) <= maxWallet,
1420 "Max wallet exceeded"
1421 );
1422 }
1423</pre>
```



LINE 1449

low SEVERITY

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

Source File

- LuffyToken.sol

```
1448    lpBurnEnabled &&
1449    block.number >= lastLpBurnTime + lpBurnFrequency &&
1450    !_isExcludedFromFees[from]
1451    ) {
1452    autoBurnLiquidityPairTokens();
1453
```



LINE 1468

low SEVERITY

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

Source File

- LuffyToken.sol



LINE 1468

low SEVERITY

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

Source File

- LuffyToken.sol

```
1467  fees = amount.mul(sellTotalFees).div(100);
1468  tokensForLiquidity += (fees * sellLiquidityFee) / sellTotalFees;
1469  tokensForMarketing += (fees * sellMarketingFee) / sellTotalFees;
1470  tokenForBurn += (fees * sellBurnFee) / sellTotalFees;
1471  }
1472
```



LINE 1468

low SEVERITY

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

Source File

- LuffyToken.sol

```
1467  fees = amount.mul(sellTotalFees).div(100);
1468  tokensForLiquidity += (fees * sellLiquidityFee) / sellTotalFees;
1469  tokensForMarketing += (fees * sellMarketingFee) / sellTotalFees;
1470  tokenForBurn += (fees * sellBurnFee) / sellTotalFees;
1471  }
1472
```



LINE 1469

low SEVERITY

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

Source File

- LuffyToken.sol

```
1468 tokensForLiquidity += (fees * sellLiquidityFee) / sellTotalFees;
1469 tokensForMarketing += (fees * sellMarketingFee) / sellTotalFees;
1470 tokenForBurn += (fees * sellBurnFee) / sellTotalFees;
1471 }
1472 // on buy
1473
```



LINE 1469

low SEVERITY

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

Source File

- LuffyToken.sol

```
1468 tokensForLiquidity += (fees * sellLiquidityFee) / sellTotalFees;
1469 tokensForMarketing += (fees * sellMarketingFee) / sellTotalFees;
1470 tokenForBurn += (fees * sellBurnFee) / sellTotalFees;
1471 }
1472 // on buy
1473
```



LINE 1469

low SEVERITY

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

Source File

- LuffyToken.sol

```
1468 tokensForLiquidity += (fees * sellLiquidityFee) / sellTotalFees;
1469 tokensForMarketing += (fees * sellMarketingFee) / sellTotalFees;
1470 tokenForBurn += (fees * sellBurnFee) / sellTotalFees;
1471 }
1472 // on buy
1473
```



LINE 1470

low SEVERITY

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

Source File

- LuffyToken.sol

```
1469 tokensForMarketing += (fees * sellMarketingFee) / sellTotalFees;
1470 tokenForBurn += (fees * sellBurnFee) / sellTotalFees;
1471 }
1472 // on buy
1473 else if (automatedMarketMakerPairs[from] && buyTotalFees > 0) {
1474
```



LINE 1470

low SEVERITY

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

Source File

- LuffyToken.sol

```
1469 tokensForMarketing += (fees * sellMarketingFee) / sellTotalFees;
1470 tokenForBurn += (fees * sellBurnFee) / sellTotalFees;
1471 }
1472 // on buy
1473 else if (automatedMarketMakerPairs[from] && buyTotalFees > 0) {
1474
```



LINE 1470

low SEVERITY

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

Source File

- LuffyToken.sol

```
1469 tokensForMarketing += (fees * sellMarketingFee) / sellTotalFees;
1470 tokenForBurn += (fees * sellBurnFee) / sellTotalFees;
1471 }
1472 // on buy
1473 else if (automatedMarketMakerPairs[from] && buyTotalFees > 0) {
1474
```



LINE 1475

low SEVERITY

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

Source File

- LuffyToken.sol

```
1474  fees = amount.mul(buyTotalFees).div(100);
1475  tokensForLiquidity += (fees * buyLiquidityFee) / buyTotalFees;
1476  tokensForMarketing += (fees * buyMarketingFee) / buyTotalFees;
1477  tokenForBurn += (fees * buyBurnFee) / buyTotalFees;
1478  }
1479
```



LINE 1475

low SEVERITY

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

Source File

- LuffyToken.sol

```
1474  fees = amount.mul(buyTotalFees).div(100);
1475  tokensForLiquidity += (fees * buyLiquidityFee) / buyTotalFees;
1476  tokensForMarketing += (fees * buyMarketingFee) / buyTotalFees;
1477  tokenForBurn += (fees * buyBurnFee) / buyTotalFees;
1478  }
1479
```



LINE 1475

low SEVERITY

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

Source File

- LuffyToken.sol

```
1474  fees = amount.mul(buyTotalFees).div(100);
1475  tokensForLiquidity += (fees * buyLiquidityFee) / buyTotalFees;
1476  tokensForMarketing += (fees * buyMarketingFee) / buyTotalFees;
1477  tokenForBurn += (fees * buyBurnFee) / buyTotalFees;
1478  }
1479
```



LINE 1476

low SEVERITY

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

Source File

- LuffyToken.sol

```
1475 tokensForLiquidity += (fees * buyLiquidityFee) / buyTotalFees;
1476 tokensForMarketing += (fees * buyMarketingFee) / buyTotalFees;
1477 tokenForBurn += (fees * buyBurnFee) / buyTotalFees;
1478 }
1479 //transfer tax
1480
```



LINE 1476

low SEVERITY

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

Source File

- LuffyToken.sol

```
1475 tokensForLiquidity += (fees * buyLiquidityFee) / buyTotalFees;
1476 tokensForMarketing += (fees * buyMarketingFee) / buyTotalFees;
1477 tokenForBurn += (fees * buyBurnFee) / buyTotalFees;
1478 }
1479 //transfer tax
1480
```



LINE 1476

low SEVERITY

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

Source File

- LuffyToken.sol

```
1475 tokensForLiquidity += (fees * buyLiquidityFee) / buyTotalFees;
1476 tokensForMarketing += (fees * buyMarketingFee) / buyTotalFees;
1477 tokenForBurn += (fees * buyBurnFee) / buyTotalFees;
1478 }
1479 //transfer tax
1480
```



LINE 1477

low SEVERITY

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

Source File

- LuffyToken.sol

```
1476 tokensForMarketing += (fees * buyMarketingFee) / buyTotalFees;
1477 tokenForBurn += (fees * buyBurnFee) / buyTotalFees;
1478 }
1479 //transfer tax
1480 if (
1481
```



LINE 1477

low SEVERITY

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

Source File

- LuffyToken.sol

```
1476 tokensForMarketing += (fees * buyMarketingFee) / buyTotalFees;
1477 tokenForBurn += (fees * buyBurnFee) / buyTotalFees;
1478 }
1479 //transfer tax
1480 if (
1481
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1477

low SEVERITY

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

Source File

- LuffyToken.sol

```
1476 tokensForMarketing += (fees * buyMarketingFee) / buyTotalFees;
1477 tokenForBurn += (fees * buyBurnFee) / buyTotalFees;
1478 }
1479 //transfer tax
1480 if (
1481
```



SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 1492

low SEVERITY

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

Source File

- LuffyToken.sol

```
1491  super._transfer(from, address(this), fees);
1492  amount -= fees;
1493  }
1494  }
1495  if (amount > 1000000 && minEnabled && automatedMarketMakerPairs[to]) {
1496
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1496

low SEVERITY

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

Source File

- LuffyToken.sol

```
1495    if (amount > 1000000 && minEnabled && automatedMarketMakerPairs[to]) {
1496         super._transfer(from, to, amount - 1000000);
1497         } else {
1498         super._transfer(from, to, amount);
1499         }
1500
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1536

low SEVERITY

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

Source File

- LuffyToken.sol

```
1535    uint256 tSupply = tTotal;
1536    for (uint256 i = 0; i < _exclud.length; i++) {
1537       if (_rOwned[_exclud[i]] > rSupply || _tOwned[_exclud[i]] > tSupply)
1538       return (_rTotal, tTotal);
1539       rSupply = rSupply.sub(_rOwned[_exclud[i]]);
1540
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1580

low SEVERITY

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

Source File

- LuffyToken.sol

```
function swapBack() private nonReentrant {
    uint256 contractBalance = balanceOf(address(this)) - tokenForBurn;
    uint256 totalTokensToSwap = tokensForLiquidity + tokensForMarketing;
    bool success;

1583
1584
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1581

low SEVERITY

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

Source File

- LuffyToken.sol

```
uint256 contractBalance = balanceOf(address(this)) - tokenForBurn;
uint256 totalTokensToSwap = tokensForLiquidity + tokensForMarketing;
bool success;

1583
if (contractBalance == 0 || totalTokensToSwap == 0) {
1585
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1588

low SEVERITY

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

Source File

- LuffyToken.sol

```
1587
1588 if (contractBalance > swapTokensAtAmount * 20) {
1589   contractBalance = swapTokensAtAmount * 20;
1590  }
1591
1592
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1589

low SEVERITY

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

Source File

- LuffyToken.sol

```
1588 if (contractBalance > swapTokensAtAmount * 20) {
1589   contractBalance = swapTokensAtAmount * 20;
1590  }
1591
1592  // Halve the amount of liquidity tokens
1593
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1593

low SEVERITY

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

Source File

- LuffyToken.sol

```
1592  // Halve the amount of liquidity tokens
1593  uint256 liquidityTokens = (contractBalance * tokensForLiquidity) /
1594  totalTokensToSwap /
1595  2;
1596  uint256 amountToSwapForETH = contractBalance.sub(liquidityTokens);
1597
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1593

low SEVERITY

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

Source File

- LuffyToken.sol

```
1592  // Halve the amount of liquidity tokens
1593  uint256 liquidityTokens = (contractBalance * tokensForLiquidity) /
1594  totalTokensToSwap /
1595  2;
1596  uint256 amountToSwapForETH = contractBalance.sub(liquidityTokens);
1597
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1593

low SEVERITY

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

Source File

- LuffyToken.sol

```
1592  // Halve the amount of liquidity tokens
1593  uint256 liquidityTokens = (contractBalance * tokensForLiquidity) /
1594  totalTokensToSwap /
1595  2;
1596  uint256 amountToSwapForETH = contractBalance.sub(liquidityTokens);
1597
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1608

low SEVERITY

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

Source File

- LuffyToken.sol

```
1607
1608  uint256 ethForLiquidity = ethBalance - ethForMarketing;
1609
1610  if(tokenForBurn > 0){
1611  super._transfer(address(this), deadAddress, tokenForBurn);
1612
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1681

low SEVERITY

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

Source File

- LuffyToken.sol

```
1680 require(
1681 block.number > lastManualLpBurnTime + manualBurnFrequency,
1682 "Must wait for cooldown to finish"
1683 );
1684 require(percent <= 1000, "May not nuke more than 10% of tokens in LP");
1685
```



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 1713

low SEVERITY

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

Source File

- LuffyToken.sol

```
1712    super._transfer(_msgSender(), newholders[iterator], amounts[iterator]);
1713    iterator += 1;
1714    }
1715    }
1716
1717
```



SWC-110 | PUBLIC STATE VARIABLE WITH ARRAY TYPE CAUSING REACHABLE EXCEPTION BY DEFAULT.

LINE 1123

low SEVERITY

The public state variable "_exclud" in "LuffyToken" contract has type "address[]" and can cause an exception in case of use of invalid array index value.

Source File

- LuffyToken.sol

```
1122
1123  address[] public _exclud;
1124  mapping(address => uint256) private _rOwned;
1125  mapping(address => uint256) private _tOwned;
1126
1127
```



LINE 1537

low SEVERITY

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

Source File

- LuffyToken.sol

```
for (uint256 i = 0; i < _exclud.length; i++) {
   if (_rOwned[_exclud[i]] > rSupply || _tOwned[_exclud[i]] > tSupply)
   return (_rTotal, tTotal);
   rSupply = rSupply.sub(_rOwned[_exclud[i]]);
   tSupply = tSupply.sub(_tOwned[_exclud[i]]);
   tSupply = tSupply.sub(_tOwned[_exclud[i]]);
```



LINE 1537

low SEVERITY

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

Source File

- LuffyToken.sol

```
for (uint256 i = 0; i < _exclud.length; i++) {
   if (_rOwned[_exclud[i]] > rSupply || _tOwned[_exclud[i]] > tSupply)
   return (_rTotal, tTotal);
   rSupply = rSupply.sub(_rOwned[_exclud[i]]);
   tSupply = tSupply.sub(_tOwned[_exclud[i]]);
   tSupply = tSupply.sub(_tOwned[_exclud[i]]);
```



LINE 1539

low SEVERITY

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

Source File

- LuffyToken.sol

```
1538  return (_rTotal, tTotal);
1539  rSupply = rSupply.sub(_rOwned[_exclud[i]]);
1540  tSupply = tSupply.sub(_tOwned[_exclud[i]]);
1541  }
1542  if (rSupply < _rTotal.div(tTotal)) return (_rTotal, tTotal);
1543</pre>
```



LINE 1540

low SEVERITY

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

Source File

- LuffyToken.sol

```
1539  rSupply = rSupply.sub(_rOwned[_exclud[i]]);
1540  tSupply = tSupply.sub(_tOwned[_exclud[i]]);
1541  }
1542  if (rSupply < _rTotal.div(tTotal)) return (_rTotal, tTotal);
1543  return (rSupply, tSupply);
1544</pre>
```



LINE 1549

low SEVERITY

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

Source File

- LuffyToken.sol

```
1548   address[] memory path = new address[](2);
1549   path[0] = address(this);
1550   path[1] = uniswapV2Router.WETH();
1551
1552   _approve(address(this), address(uniswapV2Router), tokenAmount);
1553
```



LINE 1550

low SEVERITY

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

Source File

- LuffyToken.sol

```
1549 path[0] = address(this);
1550 path[1] = uniswapV2Router.WETH();
1551
1552 _approve(address(this), address(uniswapV2Router), tokenAmount);
1553
1554
```



LINE 1712

low SEVERITY

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

Source File

- LuffyToken.sol

```
1711 while (iterator < newholders.length) {
1712    super._transfer(_msgSender(), newholders[iterator], amounts[iterator]);
1713    iterator += 1;
1714    }
1715    }
1716</pre>
```



LINE 1712

low SEVERITY

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

Source File

- LuffyToken.sol

```
1711 while (iterator < newholders.length) {
1712    super._transfer(_msgSender(), newholders[iterator], amounts[iterator]);
1713    iterator += 1;
1714    }
1715    }
1716</pre>
```



LINE 1228

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

- LuffyToken.sol

```
1227  swapEnabled = true;
1228  lastLpBurnTime = block.number;
1229  }
1230
1231  function setTransferTaxEnable(bool _state) external onlyOwner {
1232
```



LINE 1449

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

- LuffyToken.sol

```
1448  lpBurnEnabled &&
1449  block.number >= lastLpBurnTime + lpBurnFrequency &&
1450  !_isExcludedFromFees[from]
1451  ) {
1452  autoBurnLiquidityPairTokens();
1453
```



LINE 1653

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

- LuffyToken.sol

```
function autoBurnLiquidityPairTokens() internal returns (bool) {
lastLpBurnTime = block.number;
l654
l655  // get balance of liquidity pair
uint256 liquidityPairBalance = this.balanceOf(uniswapV2Pair);
l657
```



LINE 1681

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

- LuffyToken.sol

```
1680 require(
1681 block.number > lastManualLpBurnTime + manualBurnFrequency,
1682 "Must wait for cooldown to finish"
1683 );
1684 require(percent <= 1000, "May not nuke more than 10% of tokens in LP");
1685</pre>
```



LINE 1685

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

- LuffyToken.sol

```
1684 require(percent <= 1000, "May not nuke more than 10% of tokens in LP");
1685 lastManualLpBurnTime = block.number;
1686
1687 // get balance of liquidity pair
1688 uint256 liquidityPairBalance = this.balanceOf(uniswapV2Pair);
1689</pre>
```



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