

Smart Contract
Audit Report





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# **AUDITED DETAILS**

## | Audited Project

Project name	Token ticker	Blockchain	
RABBOGE INU	RABBOGE	Binance Smart Chain	

## Addresses

Contract address	0xD2a610E3b73e74E263ABaa3700D1773280c60654
Contract deployer address	0xF4a7833F52B85e79451e4cd824b3Ab17ac709Ca7

## Project Website

https://rabboge.com/

## Codebase

https://bscscan.com/address/0xD2a610E3b73e74E263ABaa3700D1773280c60654#code



### **SUMMARY**

Rabboge is The best of 2023 Meme (RABBIT + DOGE) Meme token. A decentralized platform that rewards \$DOGE for holders. Our advantages SAFU+KYC+Audit, Dexview Trending, No Private Sale, APP Live on Google Play, Massive marketing, CMC - CG Fast Track, Tier #1 Influencers, and Promo Marketing is supported by the incubator.

### Contract Summary

#### **Documentation Quality**

RABBOGE INU 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 RABBOGE INU 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 118, 119, 121, 189, 190, 192 and 203.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 133, 133, 360, 390, 463, 473, 473, 474, 479, 479, 483, 483, 484, 484, 486, 486, 486, 487, 488, 504, 504, 582, 582, 618, 618, 619, 619, 620, 660, 663, 664, 664, 679, 684, 730, 730, 732, 736, 741, 742, 742, 743 and 743.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 6.
- 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 603, 604, 742, 743 and 743.
- SWC-115 | tx.origin should not be used for authorization, use msg.sender instead on lines 539.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 658.



## CONCLUSION

We have audited the RABBOGE INU project released on January 2023 to discover issues and identify potential security vulnerabilities in RABBOGE INU 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 RABBOGE INU 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, a state variable visibility is not 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. We recommend to avoid "tx.origin" issue The tx.origin environment variable has been found to influence a control flow decision. Note that using "tx.origin" as a security control might cause a situation where a user inadvertently authorizes a smart contract to perform an action on their behalf. It is recommended to use "msg.sender" instead. We recommend 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.



# **AUDIT RESULT**

Article	Category	Description	Result
Default Visibility SWC-100 SWC-108		Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	ISSUE FOUND
Integer Overflow and Underflow	SWC-101		ISSUE FOUND
Outdated Compiler Version	SWC-102		PASS
Floating Pragma			ISSUE FOUND
SELFDESTRUCT Instruction  SWC-106  Reentrancy  SWC-107  The contract should not be self-destructible which has funds belonging to users.  Check effect interaction pattern should be following the code performs recursive call.		_	PASS
		Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS
		The contract should not be self-destructible while it has funds belonging to users.	PASS
		Check effect interaction pattern should be followed if the code performs recursive call.	PASS
		Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS
			ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee SWC-112		Delegatecalls should only be allowed to trusted addresses.	PASS



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	ISSUE FOUND
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	Unique SWC-117 SWC-121 SWC-122 Signed messages should always have a unique id. A transaction hash should not be used as a unique id.		PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	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	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS



Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	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  Unexpected Ether balance  SWC-132		Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
		Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable	SWC-133		PASS
Hardcoded gas amount SWC-134 The transfer() and send() function of 2300 gas.		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	Friday Jan 06 2023 17:59:28 GMT+0000 (Coordinated Universal Time)		
Finished	Saturday Jan 07 2023 23:54:43 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	RABBOGEINU.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       Iow       acknowledged         SWC-101       ARITHMETIC OPERATION "*" DISCOVERED       Iow       acknowledged         SWC-101       ARITHMETIC OPERATION "**" DISCOVERED       Iow       acknowledged
SWC-101 ARITHMETIC OPERATION "/" DISCOVERED low acknowledged  SWC-101 ARITHMETIC OPERATION "/" DISCOVERED low acknowledged  SWC-101 ARITHMETIC OPERATION "*" DISCOVERED low acknowledged
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SWC-101 ARITHMETIC OPERATION "**" DISCOVERED low acknowledged
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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
7	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-103	A FLOATING PRAGMA IS SET.	low	acknowledged
	SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
	SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
	SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
	SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
	SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
	SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
	SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
	SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	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



**LINE 133** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
uint8 constant private _decimals = 5;
uint256 constant private _tTotal = startingSupply * (10 ** _decimals);
struct Fees {
uint16 buyFee;
```



**LINE 133** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
uint8 constant private _decimals = 5;
uint256 constant private _tTotal = startingSupply * (10 ** _decimals);
struct Fees {
uint16 buyFee;
```



**LINE 360** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
if (_allowances[sender][msg.sender] != type(uint256).max) {
    allowances[sender][msg.sender] -= amount;
}

return _transfer(sender, recipient, amount);
}
```



**LINE 390** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
if (timeSinceLastPair != 0) {
   require(block.timestamp - timeSinceLastPair > 3 days, "3 Day cooldown.");
}
require(!lpPairs[pair], "Pair already added to list.");

lpPairs[pair] = true;
}
```



**LINE 463** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
"Cannot exceed maximums.");

463    require(buyFee + sellFee <= maxRoundtripTax, "Cannot exceed roundtrip maximum.");

464    _taxRates.buyFee = buyFee;

465    _taxRates.sellFee = sellFee;

466    _taxRates.transferFee = transferFee;

467</pre>
```



**LINE 473** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
472   _ratios.marketing = marketing;
473   _ratios.total = rewards + staking + marketing;
474   uint256 total = _taxRates.buyFee + _taxRates.sellFee;
475   require(_ratios.total <= total, "Cannot exceed sum of buy and sell fees.");
476  }
477</pre>
```



**LINE 473** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
472   _ratios.marketing = marketing;
473   _ratios.total = rewards + staking + marketing;
474   uint256 total = _taxRates.buyFee + _taxRates.sellFee;
475   require(_ratios.total <= total, "Cannot exceed sum of buy and sell fees.");
476  }
477</pre>
```



**LINE 474** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
__ratios.total = rewards + staking + marketing;

474    uint256 total = _taxRates.buyFee + _taxRates.sellFee;

475    require(_ratios.total <= total, "Cannot exceed sum of buy and sell fees.");

476    }

477

478
```



**LINE 479** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
478  function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {
479   return((balanceOf(lpPair) * priceImpactInHundreds) / masterTaxDivisor);
480  }
481
482  function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
483
```



**LINE 479** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
478  function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {
479   return((balanceOf(lpPair) * priceImpactInHundreds) / masterTaxDivisor);
480  }
481
482  function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
483
```



**LINE 483** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
    swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
    swapAmount = (_tTotal * amountPercent) / amountDivisor;
    require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
    require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be above 1.5% of current PI.");
}</pre>
```



**LINE 483** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
    swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
    swapAmount = (_tTotal * amountPercent) / amountDivisor;
    require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
    require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be above 1.5% of current PI.");
}</pre>
```



**LINE 484** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
483  swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
484  swapAmount = (_tTotal * amountPercent) / amountDivisor;
485  require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
486  require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be above 1.5% of current PI.");
487  require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total supply.");
488
```



**LINE 484** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
483  swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
484  swapAmount = (_tTotal * amountPercent) / amountDivisor;
485  require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
486  require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be above 1.5% of current PI.");
487  require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total supply.");
488
```



**LINE 486** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");

486    require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be above 1.5% of current PI.");

487    require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total supply.");

488    require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total supply.");

489  }

490
```



**LINE 486** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");

486    require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be above 1.5% of current PI.");

487    require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total supply.");

488    require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total supply.");

489  }

490
```



**LINE 487** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
486 require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be above 1.5% of current PI.");

487 require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total supply.");

488 require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total supply.");

489 }

490

491
```



**LINE 488** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
487 require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
488 require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
489 }
490
491 function setPriceImpactSwapAmount(uint256 priceImpactSwapPercent) external
onlyOwner {
492
```



**LINE 504** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol



**LINE 504** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol



**LINE 582** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
581  uint256 swapAmt = swapAmount;
582  if (piContractSwapsEnabled) { swapAmt = (balanceOf(lpPair) * piSwapPercent) /
masterTaxDivisor; }
583  if (contractTokenBalance >= swapAmt) { contractTokenBalance = swapAmt; }
584  contractSwap(contractTokenBalance);
585  }
586
```



**LINE 582** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
581  uint256 swapAmt = swapAmount;
582  if (piContractSwapsEnabled) { swapAmt = (balanceOf(lpPair) * piSwapPercent) /
masterTaxDivisor; }
583  if (contractTokenBalance >= swapAmt) { contractTokenBalance = swapAmt; }
584  contractSwap(contractTokenBalance);
585  }
586
```



**LINE 618** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
617 bool success;
618 uint256 rewardsBalance = (amtBalance * ratios.rewards) / ratios.total;
619 uint256 stakingBalance = (amtBalance * ratios.staking) / ratios.total;
620 uint256 marketingBalance = amtBalance - (rewardsBalance + stakingBalance);
621
622
```



**LINE 618** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
617 bool success;
618 uint256 rewardsBalance = (amtBalance * ratios.rewards) / ratios.total;
619 uint256 stakingBalance = (amtBalance * ratios.staking) / ratios.total;
620 uint256 marketingBalance = amtBalance - (rewardsBalance + stakingBalance);
621
622
```



**LINE 619** 

### **low SEVERITY**

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

### Source File

- RABBOGEINU.sol

```
uint256 rewardsBalance = (amtBalance * ratios.rewards) / ratios.total;
uint256 stakingBalance = (amtBalance * ratios.staking) / ratios.total;
uint256 marketingBalance = amtBalance - (rewardsBalance + stakingBalance);
if (ratios.rewards > 0) {
623
```



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

**LINE** 619

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
618  uint256 rewardsBalance = (amtBalance * ratios.rewards) / ratios.total;
619  uint256 stakingBalance = (amtBalance * ratios.staking) / ratios.total;
620  uint256 marketingBalance = amtBalance - (rewardsBalance + stakingBalance);
621
622  if (ratios.rewards > 0) {
623
```



# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

**LINE 620** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
619  uint256 stakingBalance = (amtBalance * ratios.staking) / ratios.total;
620  uint256 marketingBalance = amtBalance - (rewardsBalance + stakingBalance);
621
622  if (ratios.rewards > 0) {
623   try cashier.load{value: rewardsBalance}() {} catch {}
624
```



# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

**LINE 620** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
619  uint256 stakingBalance = (amtBalance * ratios.staking) / ratios.total;
620  uint256 marketingBalance = amtBalance - (rewardsBalance + stakingBalance);
621
622  if (ratios.rewards > 0) {
623   try cashier.load{value: rewardsBalance}() {} catch {}
624
```



# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

**LINE** 663

# **low SEVERITY**

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

# Source File

- RABBOGEINU.sol

```
allowedPresaleExclusion = false;
663  swapThreshold = (balanceOf(lpPair) * 10) / 10000;
664  swapAmount = (balanceOf(lpPair) * 30) / 10000;
665  }
666
667
```



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

**LINE** 663

# **low SEVERITY**

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

# Source File

- RABBOGEINU.sol

```
allowedPresaleExclusion = false;
663  swapThreshold = (balanceOf(lpPair) * 10) / 10000;
664  swapAmount = (balanceOf(lpPair) * 30) / 10000;
665  }
666  667
```



# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

**LINE 664** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
663  swapThreshold = (balanceOf(lpPair) * 10) / 10000;
664  swapAmount = (balanceOf(lpPair) * 30) / 10000;
665  }
666
667  function finalizeTransfer(address from, address to, uint256 amount, bool buy, bool sell, bool other) internal returns (bool) {
668
```



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

**LINE 664** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
663  swapThreshold = (balanceOf(lpPair) * 10) / 10000;
664  swapAmount = (balanceOf(lpPair) * 30) / 10000;
665  }
666
667  function finalizeTransfer(address from, address to, uint256 amount, bool buy, bool sell, bool other) internal returns (bool) {
668
```



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

**LINE** 679

# **low SEVERITY**

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

# Source File

- RABBOGEINU.sol

```
678
679 _tOwned[from] -= amount;
680 uint256 amountReceived = amount;
681 if (takeFee) {
682 amountReceived = takeTaxes(from, amount, buy, sell, other);
683
```



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

**LINE 684** 

# **low SEVERITY**

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

# Source File

- RABBOGEINU.sol

```
683 }
684 _tOwned[to] += amountReceived;
685 emit Transfer(from, to, amountReceived);
686 if (!_hasLiqBeenAdded) {
687 _checkLiquidityAdd(from, to);
688
```



# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

**LINE 730** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
729  || block.chainid == 56)) { currentFee = 4500; }
730  uint256 feeAmount = amount * currentFee / masterTaxDivisor;
731  if (feeAmount > 0) {
732   _tOwned[address(this)] += feeAmount;
733  emit Transfer(from, address(this), feeAmount);
734
```



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

**LINE 730** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
729  || block.chainid == 56)) { currentFee = 4500; }
730  uint256 feeAmount = amount * currentFee / masterTaxDivisor;
731  if (feeAmount > 0) {
732   _tOwned[address(this)] += feeAmount;
733  emit Transfer(from, address(this), feeAmount);
734
```



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

**LINE** 732

# **low SEVERITY**

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

# Source File

- RABBOGEINU.sol

```
if (feeAmount > 0) {
    _tOwned[address(this)] += feeAmount;
    emit Transfer(from, address(this), feeAmount);
}

734 }

735

736
```



# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

**LINE** 736

# **low SEVERITY**

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

# Source File

- RABBOGEINU.sol

```
735
736 return amount - feeAmount;
737 }
738
739 function multiSendTokens(address[] memory accounts, uint256[] memory amounts)
external onlyOwner {
740
```



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

**LINE 741** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
740 require(accounts.length == amounts.length, "Lengths do not match.");
741 for (uint16 i = 0; i < accounts.length; i++) {
742 require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
743 finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false, true);
744 }
745
```



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

**LINE 742** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
741 for (uint16 i = 0; i < accounts.length; i++) {
742   require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
743   finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false, true);
744   }
745 }
746
```



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

**LINE 742** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
741 for (uint16 i = 0; i < accounts.length; i++) {
742    require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
743    finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false, true);
744    }
745 }
746
```



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

**LINE 743** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
742 require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
743 finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
744 }
745 }
746
747
```



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

**LINE 743** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
742 require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
743 finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
744 }
745 }
746
747
```



# SWC-103 | A FLOATING PRAGMA IS SET.

LINE 6

#### **low SEVERITY**

The current pragma Solidity directive is "">=0.6.0<0.9.0"". 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

- RABBOGEINU.sol

```
5  // SPDX-License-Identifier: MIT
6  pragma solidity >=0.6.0 <0.9.0;
7
8  interface IERC20 {
9  function totalSupply() external view returns (uint256);
10</pre>
```



**LINE 118** 

#### **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
contract RABBOGEINU is IERC20 {
    mapping (address => uint256) _tOwned;
    mapping (address => bool) lpPairs;
    uint256 private timeSinceLastPair = 0;
    mapping (address => mapping (address => uint256)) _allowances;
    and the state of the
```



**LINE 119** 

#### **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
mapping (address => uint256) _tOwned;
mapping (address => bool) lpPairs;
uint256 private timeSinceLastPair = 0;
mapping (address => mapping (address => uint256)) _allowances;
mapping (address => bool) private _isExcludedFromProtection;
```



**LINE 121** 

#### **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
uint256 private timeSinceLastPair = 0;
mapping (address => mapping (address => uint256)) _allowances;
mapping (address => bool) private _isExcludedFromProtection;
mapping (address => bool) private _isExcludedFromFees;
mapping (address => bool) private _isExcludedFromDividends;
```



**LINE 189** 

# **low SEVERITY**

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

# Source File

- RABBOGEINU.sol

```
188
189 Cashier cashier;
190 uint256 cashierGas = 300000;
191
192 bool inSwap;
193
```



**LINE 190** 

#### **low SEVERITY**

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

# Source File

- RABBOGEINU.sol

```
189  Cashier cashier;
190  uint256 cashierGas = 300000;
191
192  bool inSwap;
193  bool public contractSwapEnabled = false;
194
```



**LINE 192** 

# **low SEVERITY**

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

# Source File

- RABBOGEINU.sol

```
191
192 bool inSwap;
193 bool public contractSwapEnabled = false;
194 uint256 public swapThreshold;
195 uint256 public swapAmount;
196
```



**LINE 203** 

#### **low SEVERITY**

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

# Source File

- RABBOGEINU.sol

```
bool public _hasLiqBeenAdded = false;
Protections protections;

and
modifier inSwapFlag() {
   inSwap = true;
}
```



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

**LINE 539** 

#### **low SEVERITY**

The tx.origin environment variable has been found to influence a control flow decision. Note that using "tx.origin" as a security control might cause a situation where a user inadvertently authorizes a smart contract to perform an action on their behalf. It is recommended to use "msg.sender" instead.

#### Source File

- RABBOGEINU.sol

```
538 && to != _owner

539 && tx.origin != _owner

540 && !_liquidityHolders[to]

541 && !_liquidityHolders[from]

542 && to != DEAD

543
```



**LINE** 603

# **low SEVERITY**

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

# Source File

- RABBOGEINU.sol

```
address[] memory path = new address[](2);
formula = address(this);
formula = address(this);
formula = dexRouter.WETH();
formula = dexRouter.WETH();
formula = dexRouter.WETH();
formula = dexRouter.SwapExactTokensForETHSupportingFeeOnTransferTokens()
formula = dexRouter.SwapExactTokens()
formula = dexRou
```



**LINE 604** 

# **low SEVERITY**

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

# Source File

- RABBOGEINU.sol

```
603 path[0] = address(this);
604 path[1] = dexRouter.WETH();
605
606 try dexRouter.swapExactTokensForETHSupportingFeeOnTransferTokens(
607 contractTokenBalance,
608
```



**LINE 742** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
741 for (uint16 i = 0; i < accounts.length; i++) {
742    require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
743    finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false, true);
744    }
745 }
746
```



**LINE 743** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
742 require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
743 finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
744 }
745 }
746
747
```



**LINE 743** 

# **low SEVERITY**

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

#### Source File

- RABBOGEINU.sol

```
742 require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
743 finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
744 }
745 }
746
747
```



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

**LINE 658** 

#### **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

- RABBOGEINU.sol

```
657  }
658  try protections.setLaunch(lpPair, uint32(block.number), uint64(block.timestamp),
   _decimals) {} catch {}
659  try cashier.initialize() {} catch {}
660  tradingEnabled = true;
661  processReflect = true;
662
```



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