

SMART CONTRACT AUDIT

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PREPARED FOR

MEMEARMY



INTRODUCTION

Auditing Firm	InterFi Network
/ data ng min	
Client Firm	MemeArmy
Methodology	Automated Analysis, Manual Code Review
Language	Solidity
Contract	0x17ac50Cc2bFca5F624876fFc4F55Bd1C7FFaC655
Blockchain	Binance Smart Chain
Centralization	Active ownership
Commit AUDIT REPORT CONFI	927e861a67768dfa67bf749da73b6fe2d8ee5aa2 DENTIAL AUDIT REPORT CONFIDENTIAL AUDIT REPORT
Website	https://memearmy.com/
Telegram	https://t.me/memearmyofficial
Twitter	https://twitter.com/MemeArmyToken
Facebook	https://www.facebook.com/memearmytoken
Report Date	October 25, 2022

I Verify the authenticity of this report on our website: https://www.interfi.network/audits



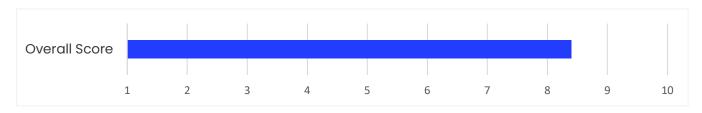
EXECUTIVE SUMMARY

InterFi has performed the automated and manual analysis of solidity codes. Solidity codes were reviewed for common contract vulnerabilities and centralized exploits. Here's a quick audit summary:

Status	Critical	Major 🛑	Medium 🔵	Minor	Unknown
Open	0	0	1	4	0
Acknowledged	0	1	0	4	1
Resolved	0	0	0	0	0
Noteworthy Privileges Set Pair and Router, Set Transaction and Wallet Limit, Set Fees, Set Antibot				, Set Antibot	

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MemeArmy's smart contract source codes have achieved the following score: 8.4



Please note that smart contracts deployed on blockchains aren't resistant to exploits, vulnerabilities and/or hacks. Blockchain and cryptography assets utilize new and emerging technologies. These technologies present a high level of ongoing risks. For a detailed understanding of risk severity, source code vulnerability, and audit limitations, kindly review the audit report thoroughly.

Please note that centralization privileges regardless of their inherited risk status - constitute an elevated impact on smart contract safety and security.



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SCOPE OF WORK

InterFi was consulted by MemeArmy to conduct the smart contract audit of their solidity source codes.

The audit scope of work is strictly limited to mentioned solidity file(s) only:

- MemeArmy.sol
- If source codes are not deployed on the main net, they can be modified or altered before mainnet deployment. Verify the contract's deployment status below:

Public Contract Link				
https://bscscan.com/address/0x17ac50Cc2bFca5F624876fFc4F55Bd1C7FFaC655#code				
Contract Name	ReflectionTokenWithAntibot			
Compiler Version	-AUDIT REPORT—CONFIDENTIAL—AUDIT REPORT—CONFIDENTIAL—AUDIT REPORT 0.8.13			
License	MIT			



AUDIT METHODOLOGY

Smart contract audits are conducted using a set of standards and procedures. Mutual collaboration is essential to performing an effective smart contract audit. Here's a brief overview of InterFi's auditing process and methodology:

CONNECT

The onboarding team gathers source codes, and specifications to make sure we understand the size, and scope of the smart contract audit.

AUDIT

- Automated analysis is performed to identify common contract vulnerabilities. We may use the following third-party frameworks and dependencies to perform the automated analysis:
 - Remix IDE Developer Tool
 - Open Zeppelin Code Analyzer
 - SWC Vulnerabilities Registry
 - DEX Dependencies, e.g., Pancakeswap, Uniswap
- Simulations are performed to identify centralized exploits causing contract and/or trade locks.
- A manual line-by-line analysis is performed to identify contract issues and centralized privileges.
 We may inspect below mentioned common contract vulnerabilities, and centralized exploits:

	o Token Supply Manipulation
	 Access Control and Authorization
	o Assets Manipulation
Controlized Evaluita	o Ownership Control
Centralized Exploits	o Liquidity Access
	o Stop and Pause Trading
	Ownable Library Verification



	0	Integer Overflow
	0	Lack of Arbitrary limits
	0	Incorrect Inheritance Order
	0	Typographical Errors
	0	Requirement Violation
	0	Gas Optimization
	0	Coding Style Violations
Common Contract Vulnerabilities	0	Re-entrancy
	0	Third-Party Dependencies
	0	Potential Sandwich Attacks
	0	Irrelevant Codes
	0	Divide before multiply
	0	Conformance to Solidity Naming Guides
	RFI IN	Compiler Specific Warnings
		ITIDEN HAL AUDH KEPOKT GONFIDEN HAL AUDH KEPOK

REPORT

o The auditing team provides a preliminary report specifying all the checks which have been performed and the findings thereof.

Language Specific Warnings

- o The client's development team reviews the report and makes amendments to solidity codes.
- o The auditing team provides the final comprehensive report with open and unresolved issues.

PUBLISH

- o The client may use the audit report internally or disclose it publicly.
- It is important to note that there is no pass or fail in the audit, it is recommended to view the audit as an unbiased assessment of the safety of solidity codes.



RISK CATEGORIES

Smart contracts are generally designed to hold, approve, and transfer tokens. This makes them very tempting attack targets. A successful external attack may allow the external attacker to directly exploit. A successful centralization-related exploit may allow the privileged role to directly exploit. All risks which are identified in the audit report are categorized here for the reader to review:

Risk Type	Definition
Critical •	These risks could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
Major	These risks are hard to exploit but very important to fix, they carry an elevated risk of smart contract manipulation, which can lead to high-risk severity.
Medium MERFINATION Minor	These risks should be fixed, as they carry an inherent risk of future exploits, and hacks which may or may not impact the smart contract execution. Low-risk reentrancy-related vulnerabilities should be fixed to deter exploits. These risks do not pose a considerable risk to the contract or those who interact with it. They are code-style violations and deviations from standard practices. They should be highlighted and fixed nonetheless.
Unknown	These risks pose uncertain severity to the contract or those who interact with it. They should be fixed immediately to mitigate the risk uncertainty.

All statuses which are identified in the audit report are categorized here for the reader to review:

Status Type	Definition
Open	Risks are open.
Acknowledged	Risks are acknowledged, but not fixed.
Resolved	Risks are acknowledged and fixed.



CENTRALIZED PRIVILEGES

Centralization risk is the most common cause of cryptography asset loss. When a smart contract has a privileged role, the risk related to centralization is elevated.

There are some well-intended reasons have privileged roles, such as:

- o Privileged roles can be granted the power to pause() the contract in case of an external attack.
- o Privileged roles can use functions like, include(), and exclude() to add or remove wallets from fees, swap checks, and transaction limits. This is useful to run a presale and to list on an exchange.

Authorizing privileged roles to externally-owned-account (EOA) is dangerous. Lately, centralization-related losses are increasing in frequency and magnitude.

- o The client can lower centralization-related risks by implementing below mentioned practices:
- o Privileged role's private key must be carefully secured to avoid any potential hack.
- Privileged role should be shared by multi-signature (multi-sig) wallets.
- Authorized privilege can be locked in a contract, user voting, or community DAO can be introduced to unlock the privilege.
- o Renouncing the contract ownership, and privileged roles.
- Remove functions with elevated centralization risk.
- Understand the project's initial asset distribution. Assets in the liquidity pair should be locked.

 Assets outside the liquidity pair should be locked with a release schedule.



AUTOMATED ANALYSIS

Symbol	Definition
	Function modifies state
	Function is payable
	Function is internal
	Function is private
· !	Function is important

```
| **IPancakeRouter01** | Interface | ||| |
| L | factory | External ! | NO! |
| L | WETH | External ! | NO! |
| └ | addLiquidity | External ! | ● |NO! |
| <sup>L</sup> | addLiquidityETH | External ! | ᄤ |NO! |
| L | removeLiquidity | External ! | • | NO! |
| L | removeLiquidityETH | External ! | • | NO! |
| | removeLiquidityETHWithPermit | External ! | | | NO! |
| └ | swapExactTokensForTokens | External ! | ● |NO! |
| L | swapTokensForExactTokens | External ! | Page | NO! |
| L | swapExactETHForTokens | External ! | 💹 |NO! |
| └ | swapTokensForExactETH | External ! | ● |NO! |
| └ | swapExactTokensForETH | External ! | ● |NO! |
| L | swapETHForExactTokens | External ! | 🐸 |NO! |
| <sup>L</sup> | quote | External ! |
                          |NO ! |
| L | getAmountOut | External ! | |
| L | getAmountIn | External ! |
| L | getAmountsOut | External ! | NO! |
| <sup>L</sup> | getAmountsIn | External ! |
```



```
\Pi\Pi\Pi\Pi
| **IPancakeRouter02** | Interface | IPancakeRouter01 |||
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | O | NO! |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | 🛑 |NO! |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | 🛑 | NO! |
📗 📙 swapExactETHForTokensSupportingFeeOnTransferTokens | External 📒 📔 🙌 |NO! |
| └ | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● |NO! |
\Pi\Pi\Pi\Pi
| **IPancakePair** | Interface | |||
| L | name | External ! | NO! |
| L | symbol | External ! | NO! |
| L | decimals | External ! | NO! |
| L | totalSupply | External ! | NO! |
| L | balanceOf | External ! |
                                 |N0 ! |
| L | allowance | External ! |
                               |NO ! |
| <sup>L</sup> | approve | External ! | 🔴 |NO! |
| L | transfer | External ! | ● |NO! |
| L | transferFrom | External ! | • |NO! |
| L | DOMAIN_SEPARATOR | External ! | NO! |
| L | PERMIT_TYPEHASH | External ! |
| L | nonces | External ! |
| L | permit | External ! | • |NO! |
| L | MINIMUM_LIQUIDITY | External ! |
                                         |N0 ! |
| <sup>L</sup> | factory | External ! |
| L | token0 | External ! |
                              |NO! |
| L | token1 | External ! | |
| L | getReserves | External ! | NO! |
| L | price0CumulativeLast | External ! |
                                            |NO ! |
| L | price1CumulativeLast | External ! |
                                            |N0 ! |
| L | kLast | External ! |
| L | mint | External ! | • | NO! |
```



```
| L | burn | External ! | • | NO! |
| L | swap | External ! | • | NO! |
| L | skim | External ! | • |NO! |
| L | sync | External ! | • | NO! |
| L | initialize | External ! | O | NO! |
| **IPancakeFactory** | Interface | |||
| L | feeTo | External ! | NO! |
| L | feeToSetter | External ! | NO! |
| L | getPair | External ! | NO! |
| L | allPairs | External ! | NO! |
| L | allPairsLength | External ! | NO! |
| L | createPair | External ! | 🔴 |NO! |
| L | setFeeTo | External ! | ● |NO! |
| L | setFeeToSetter | External ! | • | NO! |
| L | INIT_CODE_PAIR_HASH | External ! | NO! |
| **IGemAntiBot** | Interface | |||
| L | setTokenOwner | External ! | • | NO! |
| L | onPreTransferCheck | External ! | • | NO! |
| **IPancakeCaller** | Interface | |||
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | 🛑 | NO! |
111111
| **ReflectionTokenWithAntibot** | Implementation | IERC20, Ownable |||
| L | <Constructor> | Public ! | 💹 |NO! |
| L | setUsingAntiBot | External ! | • | onlyOwner |
| └ | updatePancakePair | External ! | ● | onlyOwner |
| L | updatePancakeRouter | Public ! | 🛑 | onlyOwner |
| L | updateMaxTransactionAmount | External ! | OnlyOwner |
| └ | _tokenTransfer | Private 🔐 | 🔴 | |
```



```
| L | _transferToExcluded | Private 🔒 | 🔎 | |
| L | _transferFromExcluded | Private 🔐 | 🛑 | |
| └ | _transferBothExcluded | Private 🔐 | 🔴 | |
| L | _reflectFee | Private 🔐 | 🛑 | |
| └ | _getValues | Private 🔐 | | |
| <sup>L</sup> | _getRValues | Private 🔐 | | |
| L | _getRate | Private 🔒 | | |
| └ | removeAllFee | Private 🔐 | 🛑 | |
| └ | restoreAllFee | Private 🔐 | 🔴 | |
| └ | calculateRewardFee | Private 🔐 | | |
| └ | calculateLiquidityFee | Private 🔐 | | |
| └ | calculateMarketingFee | Private 🔐 |
| <sup>L</sup> | _takeLiquidity | Private 🔐 | 🔴 | |
| L | name | External ! | NO! |
| L | symbol | External ! | NO! |
| L | decimals | External ! | NO! |
| L | totalSupply | External ! | NO! |
| L | balanceOf | Public ! | NO! |
| L | transfer | External ! | 🔎 |NO! |
| L | allowance | External ! | NO! |
| L | approve | Public ! | • |NO! |
| L | transferFrom | External ! | • | NO! |
| L | increaseAllowance | External ! | • | NO! |
| L | isExcludedFromReward | External ! |
| L | totalFees | External ! |
                           |NO ! |
| L | reflectionFromToken | External ! | NO! |
| L | tokenFromReflection | Public ! | NO! |
```

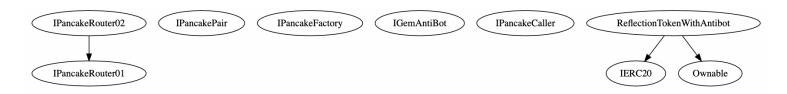
| L | _transferStandard | Private 🗎 | 🛑 | |



```
| └ | excludeFromReward | Public ! | ● | onlyOwner |
| L | includeInReward | Public ! | Government | OnlyOwner |
| └ | updateLiquidityFee | External ! | ● | onlyOwner |
| └ | updateMarketingFee | External ! | ● | onlyOwner |
| └ | updateRewardFee | External ! | ● | onlyOwner |
| └ | updateMarketingWallet | External ! | ● | onlyOwner |
| └ | updateMinAmountToTakeFee | External ! | ● | onlyOwner |
| └ | setAutomatedMarketMakerPair | Public ! | ● | onlyOwner |
| └ | _setAutomatedMarketMakerPair | Private 🔐 | ● | |
| └ | excludeFromFee | External ! | ● | onlyOwner |
| L | excludeFromMaxTransactionAmount | External ! | 🛑 | onlyOwner |
| └ | _transfer | Private 🔐 | 🛑 | |
| └ | takeFee | Private 🔐 | 🛑 | lockTheSwap |
| L | swapTokensForBaseToken | Private 🔐 | 🛑 | |
| <sup>L</sup> | addLiquidity | Private 🔐 | 🥌 | |
| L | <Receive Ether> | External ! | MO! |
```



INHERITANCE GRAPH



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MANUAL REVIEW

Identifier	Definition	Severity
CEN-01	Centralization privileges of MemeArmy	Major 🔵

only0wner centralized privileges are listed below:

setUsingAntiBot()
updatePancakePair()
updatePancakeRouter()
updateMaxWallet()
updateMaxTransactionAmount()
excludeFromReward()
includeInReward()
updateLiquidityFee()
updateMarketingFee()
updateRewardFee()
updateMarketingWallet()
updateMinAmountToTakeFee()
setAutomatedMarketMakerPair()
excludeFromFee()

RECOMMENDATION

Deployer and/or contract owner private keys are secured carefully. Please refer to PAGE-09 CENTRALIZED PRIVILEGES for a detailed understanding.





Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor

All of the initially minted assets are sent to the contract deployer when deploying the contract. This can be an issue as the deployer and/or contract owner can distribute tokens without consulting the community.

emit Transfer(address(0), _msgSender(), _totalSupply);

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RECOMMENDATION

Project must communicate with stakeholders and obtain the community consensus while distributing assets.



Identifier	Definition	Severity
CEN-06	Privileged role modifying pair and router	Medium 🔵

Privileged role can call setAutomatedMarketPair()

```
function setAutomatedMarketMakerPair(address pair, bool value)
    <u>public</u>
    onlyOwner
    _setAutomatedMarketMakerPair(pair, value);
function updatePancakePair(address _baseTokenForPair) external onlyOwner
    require(
        _baseTokenForPair != baseTokenForPair,
        "The baseTokenForPair already has that address"
    ):
    baseTokenForPair= baseTokenForPair;
    mainPair = IPancakeFactory(mainRouter.factory()).createPair(
        address(this),
        baseTokenForPair
function updatePancakeRouter(address newAddress) public onlyOwner {
    require(
        newAddress != address(mainRouter),
        "The router already has that address"
    emit UpdatePancakeRouter(newAddress, address(mainRouter));
    mainRouter = IPancakeRouter02(newAddress);
    address _mainPair = IPancakeFactory(mainRouter.factory())
        .createPair(address(<u>this</u>), baseTokenForPair);
    mainPair = _mainPair;
```

RECOMMENDATION

The current trading pair, e.g., Pancakeswap or Uniswap pair should not be removed from automated market makers.



Identifier	Definition	Severity
LOG-01	Lack of arbitrary limits	Minor

Below mentioned functions are set without any arbitrary limits.

updateMaxTransactionAmount()
updateMaxWallet()
updateMinAmountToTakeFee()

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RECOMMENDATION

These functions should be provided arbitrary limits, e.g., put a require check that allows minimum transaction limit up to 0.1%.



Identifier	Definition	Severity
LOG-02	Potential sandwich attack	Minor

Potential sandwich attack happens when an attacker observes a transaction swapping tokens or adding liquidity without setting restrictions on slippage or minimum output amount. The attacker can manipulate the exchange rate by front-running a transaction to purchase assets and make profits by back-running a transaction to sell assets. Below mentioned functions are called without setting restrictions on slippage or minimum output:

addLiquidity()
swapExactTokensForETHSupportingFeeOnTransfer()

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RECOMMENDATION

These functions should be provided reasonable minimum output amounts, instead of zero. Read more: https://coinmarketcap.com/alexandria/article/what-are-sandwich-attacks-in-defi-and-how-can-you-avoid-them



Identifier	Definition	Severity
COD-02	Timestamp manipulation via block.timestamp Avoid using block.number as timestamp	Minor •

Be aware that the timestamp of the block can be manipulated by a miner. When the contract uses the timestamp to seed a random number, the miner can actually post a timestamp within 15 seconds of the block being validated, effectively allowing the miner to precompute an option more favorable to their chances, this is a critical exploit for contracts calculating random numbers, e.g., lottery.

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RECOMMENDATION

To maintain block integrity, follow 15 seconds rule, and scale time dependent events accordingly.



Identifier	Definition	Severity
COD-06	Unknown externally owned account	Minor

An externally owned account (EOA) has no code, and one can send messages from an externally owned account by creating and signing a transaction.

0x54E7032579b327238057C3723a166FBB8705f5EA



RECOMMENDATION

Private keys of externally owned accounts must be secured carefully.



Identifier	Definition	Severity
COD-09	Missing contract balance withdraw	Minor

Smart contract may collect tokens, and ethers from external addresses. Some swap, and liquidity-add events may accumulate residual ethers, and tokens.

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RECOMMENDATION

Add withdraw() function to take out tokens and ethers from the contract.



Identifier	Definition	Severity
COD-10	Third Party Dependencies	Minor

Smart contract is interacting with third party protocols e.g., Pancakeswap, Uniswap. The scope of the audit treats third party entities as black boxes and assumes their functional correctness. However, in the real world, third parties can be compromised, and exploited. Moreover, upgrades in third parties can create severe impacts, e.g., increased transactional fees, deprecation of previous routers, etc.

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RECOMMENDATION

Inspect third party dependencies regularly, and mitigate severe impacts whenever necessary.



Identifier	Definition	Severity
COD-11	Public attributes can be changed to external	Unknown

Smart contract MemeArmy.sol has inappropriate visibility identifiers on below mentioned functions:

updatePancakeRouter()
excludeFromReward()
includeInReward()

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RECOMMENDATION

External and public attributes should be provided accordingly to optimize gas usage. Access control authentication should be accurate to avoid possible vulnerabilities.



Identifier	Definition	Severity
VOL-01	Irrelevant code	Minor

 $Redundant\ code\ in\ set Automated Market Maker Pair ()\ and\ update Pancake Pair ().$

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RECOMMENDATION

Remove redundant and dead code.



DISCLAIMERS

InterFi Network provides the easy-to-understand audit of solidity source codes (commonly known as smart contracts).

The smart contract for this particular audit was analyzed for common contract vulnerabilities, and centralization exploits. This audit report makes no statements or warranties on the security of the code. This audit report does not provide any warranty or guarantee regarding the absolute bug-free nature of the smart contract analyzed, nor do they provide any indication of the client's business, business model or legal compliance. This audit report does not extend to the compiler layer, any other areas beyond the programming language, or other programming aspects that could present security risks. Cryptographic tokens are emergent technologies, they carry high levels of technical risks and uncertainty. You agree that your access and/or use, including but not limited to any services, reports, and materials, will be at your sole risk on an as-is, where-is, and as-available basis. This audit report could include false positives, false negatives, and other unpredictable results.

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ABOUT INTERFI NETWORK

InterFi Network provides intelligent blockchain solutions. We provide solidity development, testing, and

auditing services. We have developed 150+ solidity codes, audited 1000+ smart contracts, and

analyzed 500,000+ code lines. We have worked on major public blockchains e.g., Ethereum, Binance,

Cronos, Doge, Polygon, Avalanche, Metis, Fantom, Bitcoin Cash, Velas, Oasis, etc.

InterFi Network is built by engineers, developers, UI experts, and blockchain enthusiasts. Our team

currently consists of 4 core members, and 6+ casual contributors.

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Email: hello@interfi.network

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Telegram (Engineering): https://t.me/interfiaudits

Telegram (Onboarding): https://t.me/interfisupport





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SMART CONTRACT AUDITS | SOLIDITY DEVELOPMENT AND TESTING RELENTLESSLY SECURING PUBLIC AND PRIVATE BLOCKCHAINS