

# SKELETON ECOSYSTEM

SMART CONTRACT AUDIT



**Meme Network**  
**[\$MEME]**

**BEP 20**

0xd6d1662a9ab18740aafe97e76b2e099e563a4402



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## Global Disclaimer

This document serves as a disclaimer for the crypto smart contract audit conducted by Skeleton Ecosystem. The purpose of the audit was to review the codebase of the smart contracts for potential vulnerabilities and issues. It is important to note the following:

**Limited Scope:** The audit is based on the code and information available up to the audit completion date. It does not cover external factors, system interactions, or changes made after the audit. The audit itself can not guarantee 100% safety and can not detect common scam methods like farming and developer sell-out.

**No Guarantee of Security:** While we have taken reasonable steps to identify vulnerabilities, it is impossible to guarantee the complete absence of security risks or issues. The audit report provides an assessment of the contract's security as of the audit date.

**Continued Development:** Smart contracts and blockchain technology are evolving fields. Updates, forks, or changes to the contract post-audit may introduce new risks that were not present during the audit.

**Third-party Code:** If the smart contract relies on third-party libraries or code, those components were not thoroughly audited unless explicitly stated. Security of these dependencies is the responsibility of their respective developers.

**Non-Exhaustive Testing:** The audit involved automated analysis, manual review, and testing under controlled conditions. It is possible that certain vulnerabilities or issues may not have been identified.

**Risk Evaluation:** The audit report includes a risk assessment for identified vulnerabilities. It is recommended that the development team carefully reviews and addresses these risks to mitigate potential exploits.

**Not Financial Advice:** This audit report is not intended as financial or investment advice. Decisions regarding the use, deployment, or investment in the smart contract should be made based on a comprehensive assessment of the associated risks.

By accessing and using this audit report, you acknowledge and agree to the limitations outlined above. Skeleton Ecosystem and its auditors shall not be held liable for any direct or indirect damages resulting from the use of the audit report or the smart contract itself.

Please consult with legal, technical, and financial professionals before making any decisions related to the smart contract.

## Overview

Contract Name	MemeNetwork
Ticker/Symbol	\$MEME
Blockchain	Binance Smart Chain BEP20
Contract Address	0xd6d1662a9ab18740aafe97e76b2e099e563a4402
Creator Address	0xEbC1E4542b370857a06c46023BC51B2b7e5695d0
Current Owner Address	Renounced
Contract Explorer	<a href="https://bscscan.com/token/0xd6d1662a9ab18740aafe97e76b2e099e563a4402">https://bscscan.com/token/0xd6d1662a9ab18740aafe97e76b2e099e563a4402</a>
Compiler Version	v0.8.18+commit.87f61d96
License	Unlicense
Optimisation	Yes with 200 Runs
Total Supply	1,000,000 PINTO
Decimals	18




## Creation/Audit




Contract Deployed	21 Oct 2023
Audit Created	27 Oct 2023
Audit Update	V 1.0

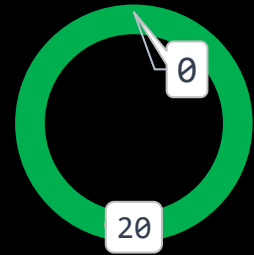
## Verified Socials










Website	<a href="https://memenetwork.pro">https://memenetwork.pro</a>
Telegram	<a href="https://t.me/MemeNetworkBsc">https://t.me/MemeNetworkBsc</a>
Twitter (X)	<a href="https://x.com/MemeNetwork_Bsc">https://x.com/MemeNetwork_Bsc</a>

## Contract Function Analysis

 Pass
  Attention Item
  Risky Item

 Pass  
 Attention  
 Risky

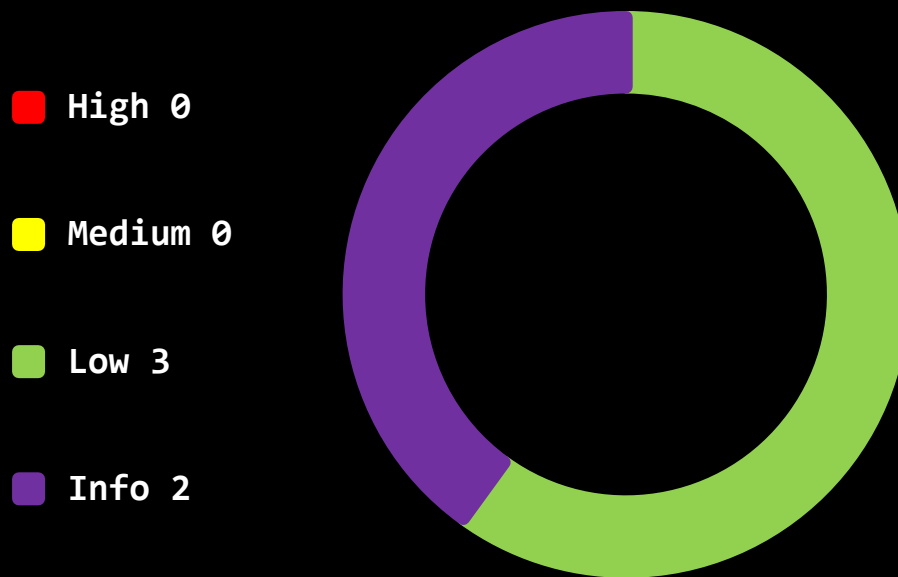



Contract Verified		The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership		Renounced
Buy Tax	8 %	Shows the taxes for purchase transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Sell Tax	8 %	Shows the taxes for sell transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Honeypot Analyse		Holder is able to buy and sell. If honeypot: The contract blocks sell transfer from holder wallet. Multiple events may cause honeypot. Trading disabled, extremely high tax
Liquidity Status		LP Lock Status on 27.10.2023: 98.44% Mudra Locker for 92 days.
Trading Disable Functions		No Trading suspendable function found.  If a suspendable code is included, the token maybe neither be bought or sold (honeypot risk). If contract is renounced this function can't be used
Set Fees function	 	Fee Setting function found, but Contract Renounced, this function can to be used  The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk).
Proxy Contract		Not a proxy contract!
Mint Function		No Mint Function detected  Mint function is transparent or non-existent. Hidden mint functions may increase the amount of tokens in circulation and effect the price of the token. Owner can mint new tokens and sell.


Balance Modifier Function		<p>No Balance Modifier function found.</p> <p>If there is a function for this, the contract owner can have the authority to modify the balance of tokens at other addresses. For example revoke the bought tokens from the holders wallet. Common form of scam: You buy the token, but it's disappearing from your wallet.</p>
Blacklist Function		<p>No Blacklist Setting function</p> <p>If there is a blacklist, some addresses may not be able to trade normally. Example: you buy the token and right after your Wallet getting blacklisted. Like so you will be unable to sell. Honeypot Risk.</p>
Whitelist Function	 	<p>Whitelist Setting function found but Contract Renounced, this function can to be used</p> <p>If there is a function for this Developer can set zero fee or no max wallet size for addresses (for example team wallets can trade without fee. Can cause farming)</p>
Hidden Owner Analysis		<p>No Multi Owner</p> <p>For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned. Fake renounce.</p>
Retrieve Ownership Function		<p>No functions found which can retrieve ownership of the contract.</p> <p>If this function exists, it is possible for the project owner to regain ownership even after relinquishing it. Also known as fake renounce.</p>
Self Destruct Function		<p>No Self Destruct function found.</p> <p>If this function exists and is triggered, the contract will be destroyed, all functions will be unavailable, and all related assets will be erased.</p>
Specific Tax Changing Function		<p>No Specific Tax Changing Functions found.</p> <p>If it exists, the contract owner may set a very outrageous tax rate for assigned address to block it from trading. Can assign all wallets at once!</p>
Trading Cooldown Function		<p>No Trading Cooldown Function found. If there is a trading cooldown function, the user will not be able to sell the token within a certain time or block after buying. Like a temporary honeypot.</p>
Max Transaction and Holding Modify Function	 	<p>Max Transaction and Holding Modify function found, but Contract Renounced, this function can to be used</p> <p>If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot</p>
Transaction Limiting Function		<p>No Transaction Limiter Function Found.</p> <p>The number of overall token transactions may be limited (honeypot risk)</p>


## Contract Security


Total Findings: 5



 **High Severity Issues:** High possibility to cause problems, need to be resolved.

 **Medium Severity Issue:** Will likely cause problems, recommended to resolve.


 **Low Severity Issues:** Won't cause problems, but for improvement purposes could be adjusted.

 **Informational Severity Issues:** Not harmful in any way, information for the developer team.

## Contract Security


### List of Found Issues

 **High severity Issues: (0)**

 **Medium severity issues: (0)**

 **Low severity issues: (3)**

- Missing Events
- Long Number Literals
- Floating Pragma

 **Informational severity issues: (2)**

- Hard Coded Address
- Public Functions Should be Declared External




## Contract Weakness Classisication

THE SMART CONTRACT WEAKNESS CLASSIFICATION REGISTRY (SWC REGISTRY) IS AN IMPLEMENTATION OF THE WEAKNESS CLASSIFICATION SCHEME PROPOSED IN EIP-1470. IT IS LOOSELY ALIGNED TO THE TERMINOLOGIES AND STRUCTURE USED IN THE COMMON WEAKNESS ENUMERATION (CWE) WHILE OVERLAYING A WIDE RANGE OF WEAKNESS VARIANTS THAT ARE SPECIFIC TO SMART CONTRACTS.

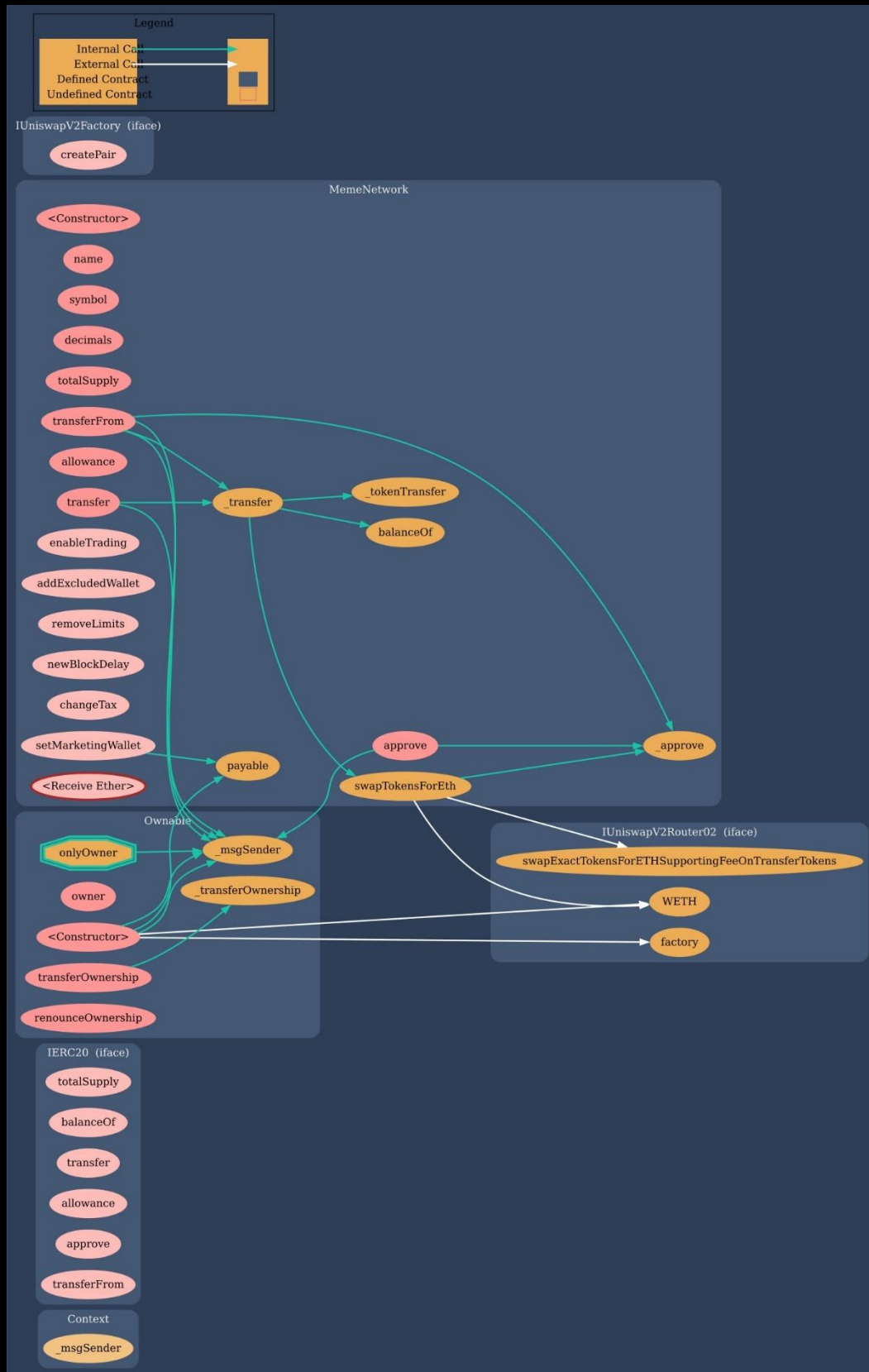
ID	Description	AI	Manual	Result
SWC-100	Function Default Visibility	Passed	Passed	Passed
SWC-101	Integer Overflow and Underflow	Passed	Passed	Passed
SWC-102	Outdated Compiler Version	Passed	Passed	Passed
SWC-103	Floating Pragma	Low	Passed	Passed
SWC-104	Unchecked Call Return Value	Passed	Passed	Passed
SWC-105	Unprotected Ether Withdrawal	Passed	Passed	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed	Passed	Passed
SWC-107	Reentrancy	Passed	Passed	Passed
SWC-108	State Variable Default Visibility	Passed	Passed	Passed
SWC-109	Uninitialized Storage Pointer	Passed	Passed	Passed
SWC-110	Assert Violation	Passed	Passed	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed	Passed	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed	Passed	Passed
SWC-113	DoS with Failed Call	Passed	Passed	Passed
SWC-114	Transaction Order Dependence	Passed	Passed	Passed
SWC-115	Authorization through tx.origin	Passed	Passed	Passed
SWC-116	Block values as a proxy for time	Passed	Passed	Passed
SWC-117	Signature Malleability	Passed	Passed	Passed
SWC-118	Incorrect Constructor Name	Passed	Passed	Passed
SWC-119	Shadowing State Variables	Passed	Passed	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed	Passed	Passed

SWC-121	Missing Protection against Signature Replay Attacks	Passed	Passed	Passed
SWC-122	Lack of Proper Signature Verification	Passed	Passed	Passed
SWC-123	Requirement Violation	Passed	Passed	Passed
SWC-124	Write to Arbitrary Storage Location	Passed	Passed	Passed
SWC-125	Incorrect Inheritance Order	Passed	Passed	Passed
SWC-126	Insufficient Gas Griefing	Passed	Passed	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed	Passed	Passed
SWC-128	DoS With Block Gas Limit	Passed	Passed	Passed
SWC-129	Typographical Error	Passed	Passed	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed	Passed	Passed
SWC-131	Presence of unused variables	Passed	Passed	Passed
SWC-132	Unexpected Ether balance	Passed	Passed	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed	Passed	Passed
SWC-134	Message call with hardcoded gas amount	Passed	Passed	Passed
SWC-135	Code With No Effects	Passed	Passed	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed	Passed	Passed

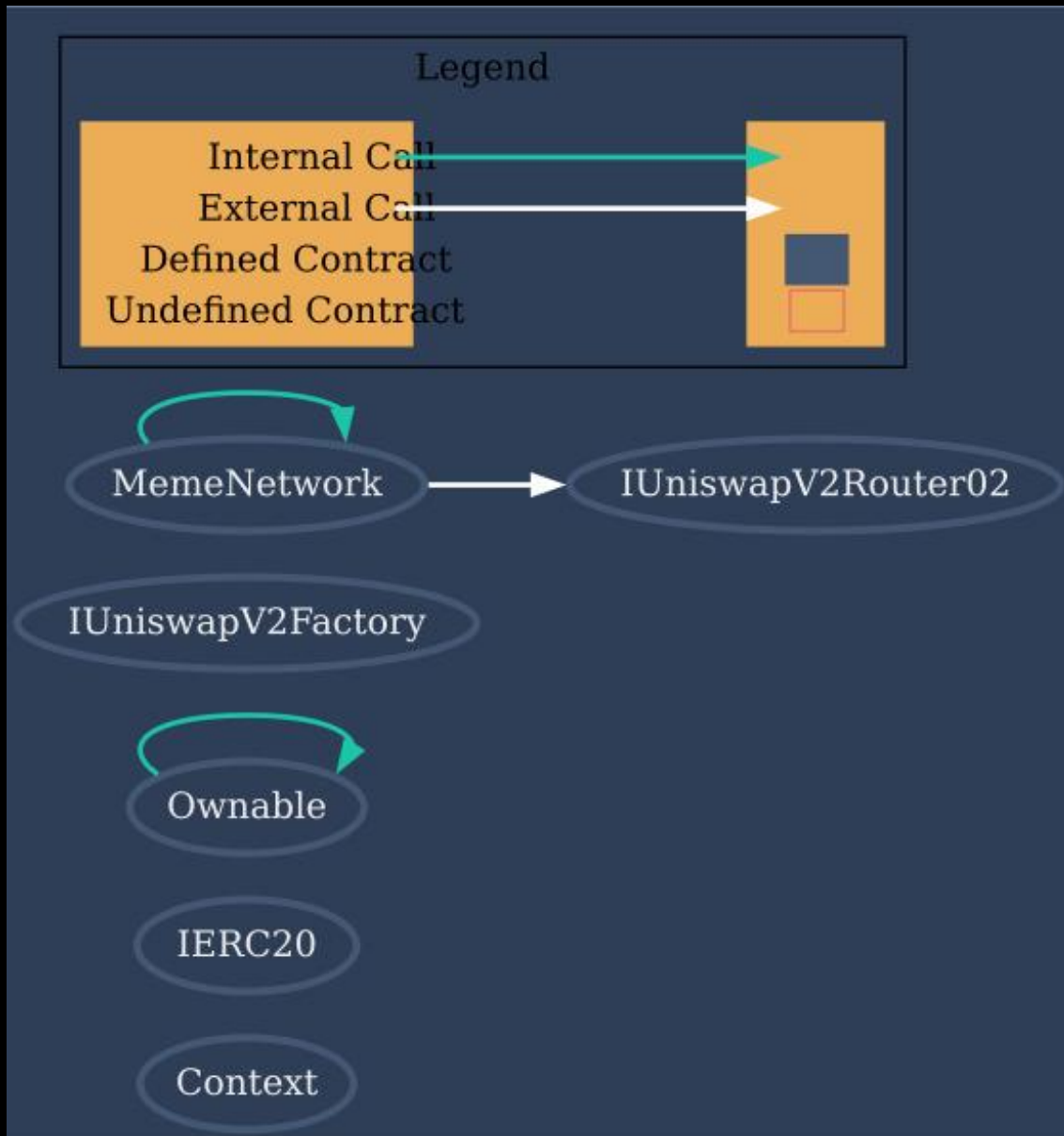
Detected High and Medium Severity Vulnerability  
Description.

 No High or medium severity issues found

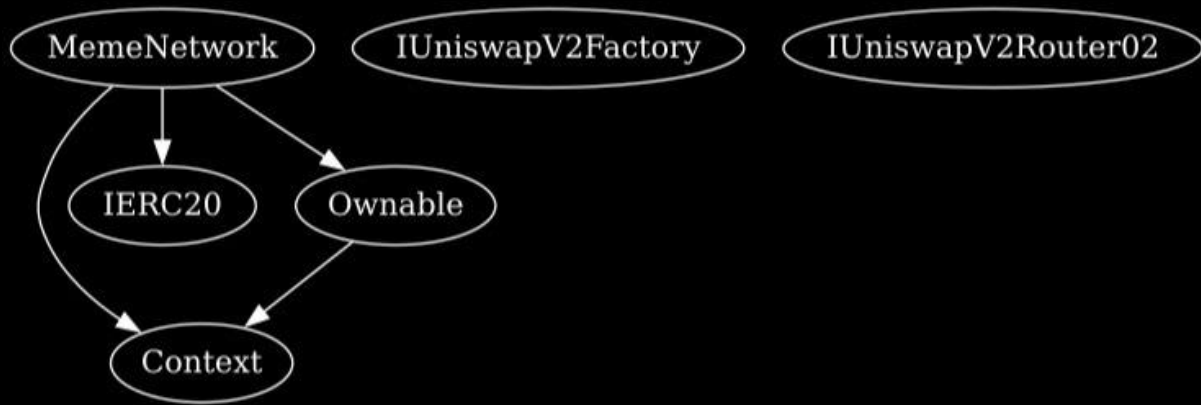
## Contract Flow Graph

































## Contract Interaction Graph














## Inheritance Graph













## Contract Functions

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
<b>Context</b>	Implementation			
L	_msgSender	Internal 		
<b>IERC20</b>	Interface			
L	totalSupply	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 
<b>Ownable</b>	Implementation	Context		
L		Public 		NO 
L	owner	Public 		NO 
L	transferOwnership	Public 		onlyOwner
L	_transferOwnership	Internal 		
L	renounceOwnership	Public 		onlyOwner
<b>IUniswapV2Factory</b>	Interface			
L	createPair	External 		NO 

Contract	Type	Bases		
<b>IUniswapV2Router02</b>	Interface			
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External 		NO 
L	factory	External 		NO 
L	WETH	External 		NO 
<b>MemeNetwork</b>	Implementation	Context, IERC20, Ownable		
L		Public 		NO 
L	name	Public 		NO 
L	symbol	Public 		NO 
L	decimals	Public 		NO 
L	totalSupply	Public 		NO 
L	balanceOf	Public 		NO 
L	transfer	Public 		NO 
L	allowance	Public 		NO 
L	approve	Public 		NO 
L	transferFrom	Public 		NO 
L	_approve	Private 		
L	enableTrading	External 		onlyOwner
L	addExcludedWallet	External 		onlyOwner
L	removeLimits	External 		onlyOwner



Contract	Type	Bases		
L	newBlockDelay	External !		onlyOwner
L	changeTax	External !		onlyOwner
L	setMarketingWallet	External !		onlyOwner
L	_tokenTransfer	Private 		
L	_transfer	Private 		
L	swapTokensForEth	Private 		
L		External !		NO!



Function  
can modify  
state



Function  
is payable

## Audit Scope

### Audit Method.

Our smart contract audit is an extensive methodical examination and analysis of the smart contract's code that is used to interact with the blockchain. Goal: discover errors, issues and security vulnerabilities in the code. Findings getting reported and improvements getting suggested.

### Automatic and Manual Review

We are using automated tools to scan functions and weaknesses of the contract. Transfers, integer over-undeflow checks such as all CWE events.

### Tools we use:

Visual Studio Code

CWE

SWC

Solidity Scan

SVD

In manual code review our auditor looking at source code and performing line by line examination. This method helps to clarify developer's coding decisions and business logic.

## Skeleton Ecosystem

<https://skeletonecosystem.com>

<https://github.com/SkeletonEcosystem/Audits>

