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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% safaty 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	WDIStandardToken
Ticker/Simbol	GII
Blockchain	Binance Smart Chain BEP20
Contract Address	0xC881DfCEe154ecdFf6DD7E134ac03466D6aC84AE
Creator Address	0x14FD4C06f92D40e81848B20E03078039CA3A643c
Current Owner Address	0x000000000000000000000000000000000000
Contract Explorer	https://bscscan.com/address/0xc881dfcee154ecdff6d d7e134ac03466d6ac84ae#code
Compiler Version	v0.8.17+commit.8df45f5f
License	MIT
Optimisation	Yes with 1500 Runs
Total Supply	100,000,000 <b>GII</b>
Decimals	18

#### Creation/Audit

Contract Deployed	12.02.2024
Audit Created	14.02.2024
Audit Update	V 1.0

#### **Verified Socials**

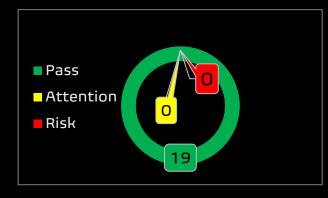
Website	https://gladiator2.online
Telegram	https://t.me/GladiatorII_Portal
Twitter (X)	https://twitter.com/GladiatorIIBSC



# Contract Function Analysis

Pass Attention Item ARisky Item





Contract Verified	<b>✓</b>	The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract		0x0000000000000000000000000000000000000
Ownership		Sometimes referred to as the "zero address" or "dead address" and is not owned by anyone.
Buy Tax	4 %	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	7 %	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	<b>✓</b>	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
Liqudity Status	<b>&gt;</b>	Liqudity status on 14.02.2024 Lp Burned 92,71%
Trading	<b>✓</b>	No Trading suspendable function found.
Disable Functions		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. Contract renounced, function can not be triggered by owner.
	<u>Л</u> max 15%	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	<b>✓</b>	Not a Proxy contract.
Mint Function	<b>✓</b>	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.

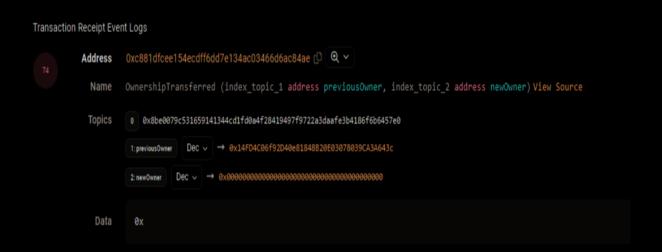


Balance Modifier Function	<b>&gt;</b>	No Balance Modifier function found.  If there is a function for this, the contract owner can have the authority to modify the balance of tokens at other addresses. For example revoke the bought tokens from the holders wallet.  Common form of scam: You buy the token, but it's disappearing from your wallet.
Function	<b>Y</b>	No Blacklist Setting function found.  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.
Whitelist Function	A	Whitelist Setting function found. Contract renounced, function can not be triggered by owner.  If there is a function for this Developer can set zero fee or no max
		wallet size for adresses (for example team wallets can trade without fee. Can cause farming)
Hidden Owner		No Hidden or multi owner with authorisation
Analysis	<b>&gt;</b>	For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned.
Retrieve Ownership Function		No Functions found which can retrieve ownership of the contract.
T direction		If this function exists, it is possible for the project owner to regain ownership even after relinquishing it. Also known as fake renounce.
Self Destruct	<b>✓</b>	No Self Destruct function found.
Function		If this function exists and is triggered, the contract will be destroyed, all functions will be unavailable, and all related assets will be erased.
Specific Tax	<b>✓</b>	No Specific Tax Changing Functions found.
Changing Function		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!
Trading Cooldown Function	<b>&gt;</b>	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.
Max Transaction	A	Max Transaction and Holding Modify function found. Contract renounced, function can not be triggered by owner.
and Holding Modify Function	min 0.5%	If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot
Transaction	<b>✓</b>	No Transaction Limiter Function Found.
Limiting Function		The number of overall token transactions may be limited (honeypot risk)



#### Details of Risk - Attention Items

Removing Risk of contract function based on renounced ownership



Following detected contract functions serve as informational purposes about the contract. The owner has no more authorisation to trigger the following functions.



## A Set Fee (15% Max)

#### Contract renounced, function can not be triggered by owner.

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).

```
function updateMarketingBuyTax(uint256 taxt) external onlyOwner {
    tokenInfo.marketingTaxBuy = tax1;
    require(totalBuyTaxFees() <= 15 ether, "TDP1");
function updateMarketingSellTax(uint256 taxt) external onlyOwner {
   tokenInfo.marketingTaxSell = taxf;
    require(totalSellTaxFees() <= 15 ether, "TDP1");
function updateDevBuyTax(uint256 taxt) external onlyOwner {
   tokenInfo.devTaxBuy = tax1;
    require(totalBuyTaxFees() <= 15 ether, "TDP1");
function updateDevSellTax(uint256 taxt) external onlyOwner {
   tokenInfo.devTaxSell = tax1;
    require(totalSellTaxFees() <= 15 ether, "TDP1");
function updateLpBuyTax(uint256 tax1) external onlyOwner {
    tokenInfo.lpTaxBuy = tax1;
    require(totalBuyTaxFees() <= 15 ether, "TDP1");</pre>
function updateLpSellTax(uint256 taxt) external onlyOwner {
    tokenInfo.lpTaxSell = tax1;
    require(totalSellTaxFees() <= 15 ether, "TDP1");
```

# Whitelist (Set exluded wallets)

#### Contract renounced, function can not be triggered by owner.

If there is a function for this Developer can set zero fee or no max wallet size for adresses (for example team wallets can trade without fee. Can cause farming)

```
function setExclusionFromFee(address account1, bool value1) public onlyOwner {
    isExcludeFromFee[account1] = value1;
function setExclusionFromTxLimit(address account;, bool value;) public onlyOwner {
    isExcludeFromTxLimit[account1] = value1;
function setExclusionFromWalletLimit(address account1, bool value1) public onlyOwner {
    isExcludeFromWalletLimit[account†] = value†;
```



# Max Transaction and Holding Modify function

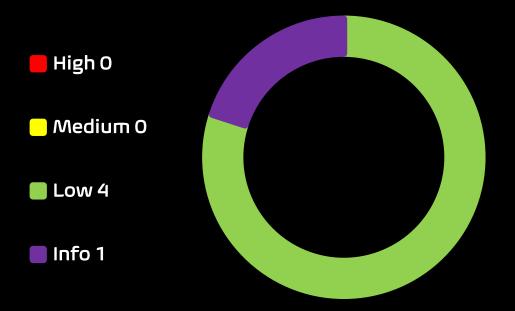
Contract renounced, function can not be triggered by owner.

If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot

```
function updateMaxWalletAmount(uint256 maxWallet†) external onlyOwner {
   require(maxWallet <= 100 ether && maxWallet >= 0.5 ether, "TDP4");
   tokenInfo.maxPercentageForWallet = maxWallet1;
    maxAmountForWallet = (maxWallet1 * tokenInfo.totalSupply) / 100 ether;
function updateMaxTransactionAmount(uint256 maxTxt) external onlyOwner {
   require(maxTxt <= 100 ether && maxTxt >= 0.5 ether, "TDP4");
   tokenInfo.maxPercentageForTx = maxTx1;
   maxAmountForTx = (maxTx1 * tokenInfo.totalSupply) / 100 ether;
```



# 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: (4)
  - Missing Events
  - Floating Pragma
  - Outdated Compiler Version
  - Approve Front running Attack (Sandwich Bots)
- Informational severity issues: (1)
  - 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

ID	Description	Al	Manual	Result
SWC-100	Function Default Visibility	Passed	Passed	Passed
SWC-101	Integer Overflow and Underflow	Passed	Passed	Passed
SWC-102	Outdated Compiler Version	low	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	low	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 Vulnerability Issues found

Approve of front running attack (2 Items)

Item: 1	Location:	Line 91-95	Severity:	Low
			,	Low

#### **Function** The approve() method overrides current allowance regardless of whether the spender already used it or not, so there is no way to increase or decrease allowance by a certain value atomically unless the token owner is a smart contract, not an account. This can be abused by a token receiver when they try to withdraw certain tokens from the sender's account. Meanwhile, if the sender decides to change the amount and sends another approve transaction, the receiver can notice this transaction before it's mined and can extract tokens from both the transactions, therefore, ending up with tokens from both the transactions. This is a front-running attack affecting the ERC20 Approve function. The function approve can be front-run by abusing the \_approve function. Remedation 1. Introduce mechanisms that limit the maximum acceptable gas price for transactions. This can help prevent frontrunners from drastically increasing the gas fees to prioritize their transactions. 2. Use transaction taxes to prevent against front-run attack

```
function approve(address spender), uint256 amount)) public virtual override returns (bool) {
   address owner = _msgSender();
   approve(owner, spender1, amount1);
   return true:
```

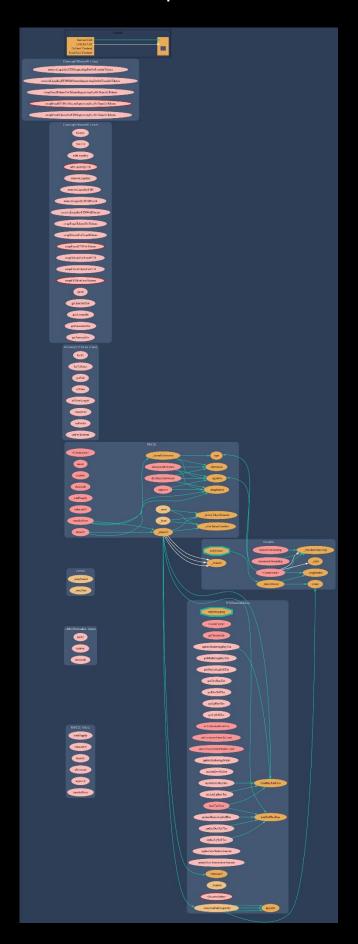


Item: 2 Location: Line 189-197 Severity: Low

#### Function The <u>spendAllowance()</u> method overrides current allowance regardless of whether the spender already used it or not, so there is no way to increase or decrease allowance by a certain value atomically unless the token owner is a smart contract, not an This can be abused by a token receiver when they try to withdraw certain tokens from the sender's account. Meanwhile, if the sender decides to change the amount and sends another approve transaction, the receiver can notice this transaction before it's mined and can extract tokens from both the transactions, therefore, ending up with tokens from both the transactions. This is a front-running attack affecting the ERC20 Approve function. The function approve can be front-run by abusing the approve function. Remedation 1. Introduce mechanisms that limit the maximum acceptable gas price for transactions. This can help prevent frontrunners from drastically increasing the gas fees to prioritize their transactions. 2. Use transaction taxes to prevent against front-run attack

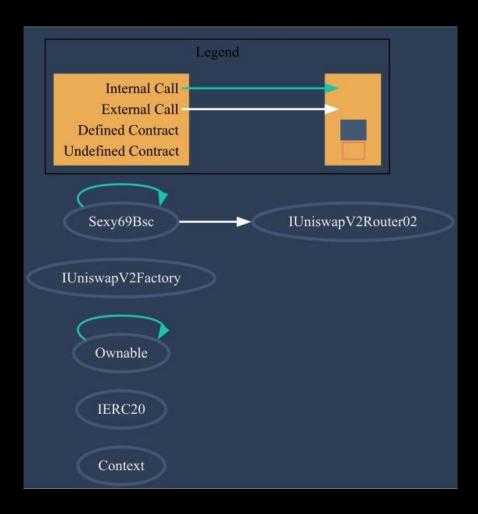


# Contract Flow Graph



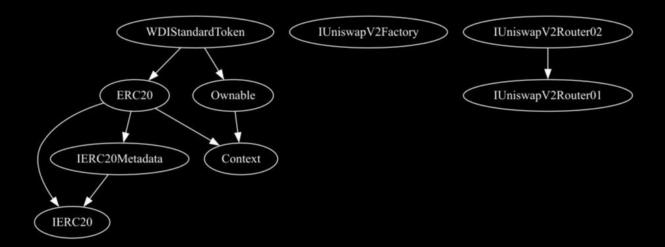


# Contract Interaction Graph





# Inheritance Graph





## **Contract Functions**

Contract	Туре	Bases			
L	Function Name	Visibility	Mutability	Modifiers	
IERC20	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	
IERC20Metada ta	Interface	IERC20			
L	name	External 🏻		NO	
L	symbol	External 🏻		NO[	
L	decimals	External 🏻		NO	
Context	Implementation				
L	_msgSender	Internal 🖺			
L	_msgData	Internal 🖺			
ERC20	Implementation	Context, IERC20, IERC20Metadat a			
L		Public 🌡		NO	
L	name	Public 🌡		NO[	



Contract	Туре		Bases	
L	symbol	Public 🌡		NOÏ
L	decimals	Public 🌡		NOÏ
L	totalSupply	Public 🌡		NOÏ
L	balanceOf	Public 🌡		NOÏ
L	transfer	Public 🌡		NOÏ
L	allowance	Public 🌡		NOÏ
L	approve	Public 🌡		NOÏ
L	transferFrom	Public 🌡		NOÏ
L	increaseAllowan ce	Public 🌡		NO[
L	decreaseAllowa nce	Public 🌡		NO[
L	_transfer	Internal 🖺		
L	_mint	Internal 🖺		
L	_burn	Internal 🖺		
L	_approve	Internal 🖺		
L	_spendAllowanc e	Internal 🖺		
L	_beforeTokenTr ansfer	Internal 🖺		
L	_afterTokenTran sfer	Internal 🖺		
IUniswapV2Fac tory	Interface			
L	feeTo	External 🌡		NOÏ



Contract	Туре		Bases	
L	feeToSetter	External 🌡		NO
L	getPair	External 🏻		NO[
L	allPairs	External 🌡		NO
L	allPairsLength	External 🏻		NO
L	createPair	External 🏻		№[
L	setFeeTo	External 🏻		№[
L	setFeeToSetter	External [		NO[
IUniswapV2Ro uter01	Interface			
L	factory	External 🌡		NO
L	WETH	External 🌡		NO
L	addLiquidity	External 🌡		NO
L	addLiquidityETH	External 🏻	<b>GD</b>	№[
L	removeLiquidity	External 🏻		NO
L	removeLiquidity ETH	External 🌡		№[
L	removeLiquidity WithPermit	External 🌡		Пои
L	removeLiquidity ETHWithPermit	External 🌡		NO[
L	swapExactToke nsForTokens	External 🌡		иоД
L	swapTokensFor ExactTokens	External 🌡		NO[



Contract	Туре	Bases		
L	swapExactETHF orTokens	External 🌡	<u>d</u> D	NO[
L	swapTokensFor ExactETH	External 🌡		NO[
L	swapExactToke nsForETH	External 🌡		NO[
L	swapETHForExa ctTokens	External 🌡	<u>ap</u>	Пои
L	quote	External 🌡		NO
L	getAmountOut	External 🌡		NO
L	getAmountIn	External 🏻		NO
L	getAmountsOut	External 🏻		NO
L	get Amounts In	External 🌡		NO
IUniswapV2Ro uter02	Interface	IUniswapV2Rou ter01		
L	removeLiquidity ETHSupportingF eeOnTransferTo kens	External 🌡		NO[
L	removeLiquidity ETHWithPermit SupportingFee OnTransferToke ns	External 🌡		NO[
L	swapExactToke nsForTokensSu pportingFeeOn TransferTokens	External 🌡		NO[
L	swapExactETHF orTokensSuppo	External 🏻	<u>ap</u>	NO[



Contract	Туре	Bases		
	rtingFeeOnTran sferTokens			
L	swapExactToke nsForETHSuppo rtingFeeOnTran sferTokens	External 🏻		NO[
Ownable	Implementation	Context		
L		Public 🌡		NOÏ
L	owner	Public 🌡		NOÏ
L	_checkOwner	Internal 🖺		
L	renounceOwner ship	Public 🌡		onlyOwner
L	transferOwners hip	Public 🌡		onlyOwner
L	_transferOwners hip	Internal 🖺		
WDIStandardT oken	Implementation	ERC20, Ownable		
L		Public 🌡		ERC20
L	getTokenInfo	Public 🌡		NO
L	totalBuyTaxFees	Public 🌡		NOÏ
L	totalSellTaxFees	Public 🌡		NO
L	totalTaxFees	Public 🌡		NO
L	getMarketingBu yTax	External 🏻		NO[
L	getMarketingSe IlTax	External 🌡		NO[



Contract	Туре		Bases	
L	getDevBuyTax	External 🌡		NO
L	getDevSellTax	External 🌡		NO
L	getLpBuyTax	External 🌡		№
L	getLpSellTax	External 🌡		NO[
L	setExclusionFro mFee	Public 🌡		onlyOwner
L	setExclusionFro mTxLimit	Public 🌡		onlyOwner
L	setExclusionFro mWalletLimit	Public 🌡		onlyOwner
L	updateMarketin gWallet	External 🌡		onlyOwner
L	updateDevWall et	External 🌡		onlyOwner
L	updateMarketin gBuyTax	External 🌡		onlyOwner
L	updateMarketin gSellTax	External 🌡		onlyOwner
L	updateDevBuyT ax	External 🌡		onlyOwner
L	updateDevSellT ax	External 🌡		onlyOwner
L	updateLpBuyTa x	External 🌡		onlyOwner
L	updateLpSellTax	External [		onlyOwner
L	updateMaxWall etAmount	External 🌡		onlyOwner



Contract	Туре		Bases	
L	updateMaxTran sactionAmount	External 🌡		onlyOwner
L	_swapAndAddLi quidity	Internal 🖺		onlySwapping
L	_transfer	Internal 🖺		
L		External 🌡	<u>ab</u>	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 vulnaribilities in the code. Findings getting reported and improvements getting suggested.

#### **Automatic and Manual Review**

We are using automated tools to scan functions and weeknesses 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

