



# CFG NINJA AUDITS

Security Assessment

## Johnny Bravo Inu Token

May 27, 2023

Audit Status: Pass

Audit Edition: Advance



# Risk Analysis

## Classifications of Manual Risk Results

Classification	Description
🔴 Critical	Danger or Potential Problems.
🟠 Major	Be Careful or Fail test.
🟢 Minor	Pass, Not-Detected or Safe Item.
🟡 Informational	Function Detected

## Manual Code Review Risk Results

Contract Priviledge	Description
🟢 Buy Tax	4
🟢 Sale Tax	6
🟢 Cannot Sale	Pass
🟢 Cannot Sale	Pass
🟢 Max Tax	6
🟢 Modify Tax	Not Detected
🟢 Fee Check	Pass
🟢 Is Honeypot?	Not-Detected
🟢 Trading Cooldown	Not Detected
🟢 Can Pause Trade?	Pass
🟢 Pause Transfer?	Not Detected



Contract Priviledge	Description
Max Tx?	Pass
Is Anti Whale?	Not Detected
Is Anti Bot?	Not Detected
Is Blacklist?	Not Detected
Blacklist Check	Pass
is Whitelist?	Not Detected
Can Mint?	Pass
Is Proxy?	Not Detected
Can Take Ownership?	Not Detected
Hidden Owner?	Not Detected
Owner	0xa9b126e4b67f06117559e88fc54bf01c134a80eb
Self Destruct?	Not Detected
Other?	Not Detected
Other?	Not Detected
Holders	1
Auditor Confidence	Medium

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.



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# Assessment Summary

This report has been prepared for Johnny Bravo Inu Token on the Binance Smart Chain network. CFGNINJA provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders
- Thorough line-by-line manual review of the entire codebase by industry experts.



# Project Overview

## Token Summary

Parameter	Result
Address	0x24CDB77acfA4b8d876c17e63732c7f7fBFaCe2Ef
Name	Johnny Bravo Inu
Token Tracker	Johnny Bravo Inu (BRAVO)
Decimals	9
Supply	100,000,000,000,000,000
Platform	Binance Smart Chain
compiler	v0.8.17+commit.8df45f5f
Contract Name	JOHNNYBRAVO
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	<a href="https://bscscan.com/address/0x24CDB77acfA4b8d876c17e63732c7f7fBFaCe2Ef#code">https://bscscan.com/address/0x24CDB77acfA4b8d876c17e63732c7f7fBFaCe2Ef#code</a>
Payment Tx	0x

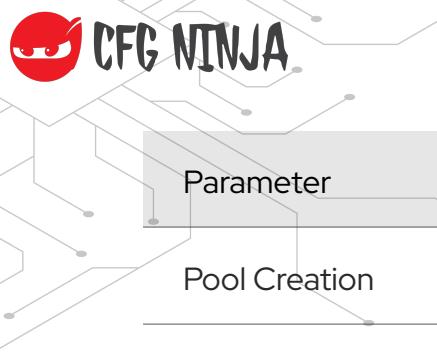


# Project Overview

## Simulation Summary

Parameter	Result
Transfer From Owner	Pass
Transfer From Holder	Pass
Add Liquidity	Pass
RemoveLiquidity	Pass
Buy from Owner	Pass
Buy from Holder	Pass
Sale from Owner	Pass
Sale from Holder	Pass
Remove Liquidity	Pass
SwapAndLiquify	Pass
SwapAndSale w/Fee	Pass
SwapAndSale TX	
SwapAndSaleNoFee	Pass
SwapAndSale No/Fee TX	
ExcludeFromFees	Pass
LaunchPad	PinkSale





Parameter	Result
Pool Creation	Pass
Pool Creation TX	
Pool Finalize	Pass
Pool Finalize TX	
Enable	Pass

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.





## Main Contract Assessed

### Contract Name

Name	Contract	Live
Johnny Bravo Inu	0x24CDB77acfA4b8d876c17e63732c7f7fBFaCe2Ef	Yes

## TestNet Contract Assessed

### Contract Name

Name	Contract	Live
Johnny Bravo Inu	0x1E54A5561FFD86F361290D5771BEa463ebe0F630	Yes

## Solidity Code Provided

SollID	File Sha-1	FileName
JBravo	2cf774ee549808ba55162d705ddd1d9668f2c7fc	jbravo.sol
JBravo		
JBravo		
JBravo		





# Mint Check

**The project owners of Johnny Bravo Inu do not have a mint function in the contract, owner cannot mint tokens after initial deploy.**

**The Project has a Total Supply of  
100,000,000,000,000,000 and cannot mint any more  
than the Max Supply.**

Mint Notes:

Auditor Notes:

Project Owner Notes:



# Fees Check

**The project owners of Johnny Bravo Inu do not have the ability to set fees higher than 6 .**

**The team May have fees defined; however, they can't set those fees higher than 6 or may not be able to configure the same.**

Tax Fee Notes:

Auditor Notes: The contract currently has 0% buy and 0% sale taxes.

Project Owner Notes:



# Blacklist Check

The project owners of Johnny Bravo Inu do not have a blacklist function their contract.

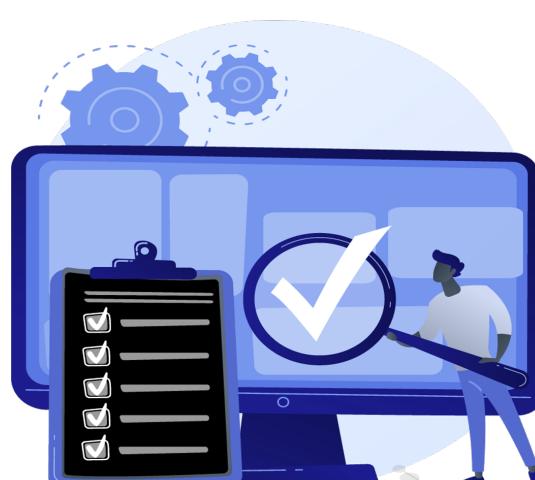
The Project allow owners to transfer their tokens without any restrictions.

Token owner cannot blacklist the contract: Malicious or compromised owners can trap contracts relying on tokens with a blacklist.

Blacklist Notes:

Auditor Notes: .

Project Owner Notes:





# MaxTx Check

**The Project Owners of Johnny Bravo Inu cannot set max tx amount**

**The Team allows any investors to swap, transfer or sell their total amount if needed.**

MaxTX Notes:

Auditor Notes:

Project Owner Notes:

**Project Has No MaxTX**



# Pause Trade Check

**The Project Owners of Johnny Bravo Inu don't have the ability to stop or pause trading.**

**The Team has done a great job to avoid stop trading, and investors has the ability to trade at any given time without any problems**

Pause Trade Notes:

Auditor Notes:

Project Owner Notes: .

Owner can't pause trading



# Contract Ownership

The contract ownership of Johnny Bravo Inu is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

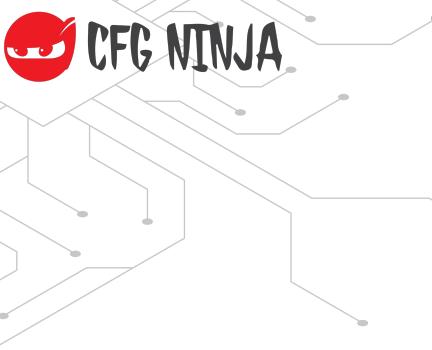
The current owner is the address  
0xa9b126e4b67f06117559e88fc54bf01c134a80eb  
which can be viewed:  
[HERE](#)

The owner wallet has the power to call the functions displayed on the privileged functions chart below, if the owner's wallet is compromised, they could exploit these privileges.

We recommend the team renounce ownership at the right time, if possible, or gradually migrate to a timelock with governing functionalities regarding transparency and safety considerations.

We recommend the team use a Multisignature Wallet if the contract is not going to be renounced; this will give the team more control over the contract.





# Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 28571711

If liquidity is unlocked, then the token developers can do what is infamously known as 'rugpull'. Once investors start buying token from the exchange, the liquidity pool will accumulate more and more coins of established value (e.g., ETH or BNB or Tether). This is because investors are basically sending these tokens of value to the exchange, to get the new token. Developers can withdraw this liquidity from the exchange, cash in all the value and run off with it. Liquidity is locked by renouncing the ownership of liquidity pool (LP) tokens for a fixed time period, by sending them to a time-lock smart contract. Without ownership of LP tokens, developers cannot get liquidity pool funds back. This provides confidence to the investors that the token developers will not run away with the liquidity money. It is now a standard practice that all token developers follow, and this is what really differentiates a scam coin from a real one.

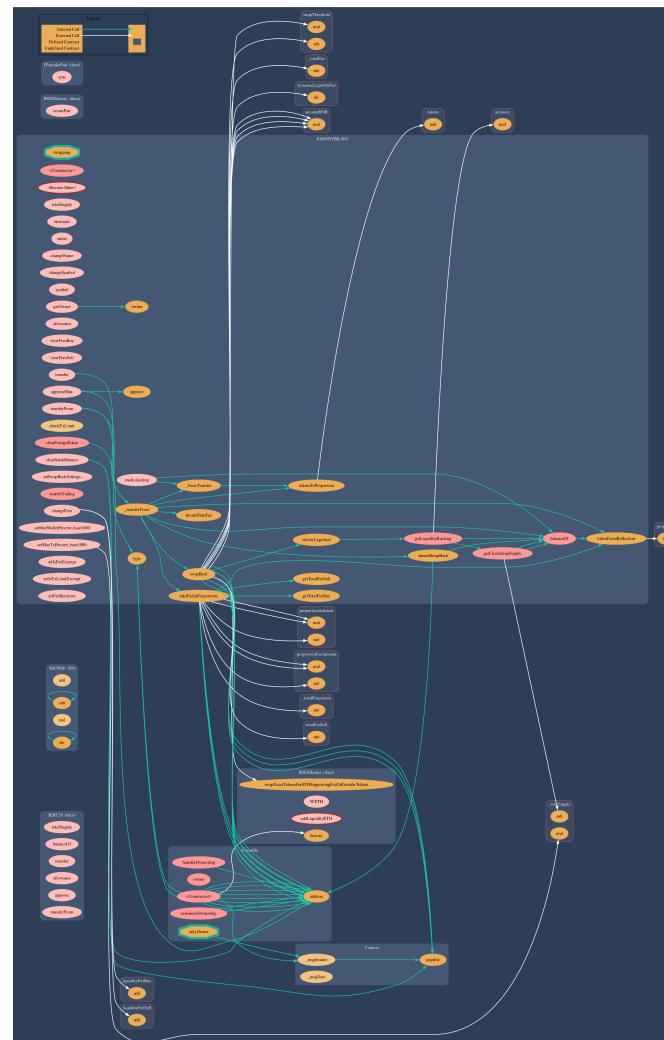
[Read More](#)





# Call Graph

The contract for Johnny Bravo Inu has the following call graph structure.



# KYC Information

**The Project Owners of Johnny Bravo Inu is not KYC.**

KYC Information Notes:

Auditor Notes: KYC to be completed by PinkSale, project will be a SAFU Project.

Project Owner Notes:



# Smart Contract Vulnerability Checks

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	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	jbravo.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	jbravo.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	jbravo.sol	L: 0 C: 0
SWC-103	Low	A floating pragma is set.	jbravo.sol	L: 6 C: 0
SWC-104	Pass	Unchecked Call Return Value.	jbravo.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	jbravo.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	jbravo.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	jbravo.sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set..	jbravo.sol	L: 0 C: 0
SWC-109	Pass	Uninitialized Storage Pointer.	jbravo.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	jbravo.sol	L: 0 C: 0



ID	Severity	Name	File	location
SWC-111	Pass	Use of Deprecated Solidity Functions.	jbravo.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	jbravo.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	jbravo.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	jbravo.sol	L: 0 C: 0
SWC-115	Pass	Authorization through tx.origin.	jbravo.sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	jbravo.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	jbravo.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	jbravo.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	jbravo.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randomness.	jbravo.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	jbravo.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	jbravo.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	jbravo.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	jbravo.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	jbravo.sol	L: 0 C: 0



ID	Severity	Name	File	location
SWC-126	Pass	Insufficient Gas Griefing.	jbravo.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	jbravo.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	jbravo.sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	jbravo.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U+202E).	jbravo.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	jbravo.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	jbravo.sol	L: 0 C: 0
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	jbravo.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	jbravo.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	jbravo.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	jbravo.sol	L: 0 C: 0

We scan the contract for additional security issues using MYTHX and industry-standard security scanning tools.



# Smart Contract Vulnerability Details

## SWC-103 - Floating Pragma.

**CWE-664: Improper Control of a Resource Through its Lifetime.**

### References:

### Description:

Contracts should be deployed with the same compiler version and flags that they have been tested with thoroughly. Locking the pragma helps to ensure that contracts do not accidentally get deployed using, for example, an outdated compiler version that might introduce bugs that affect the contract system negatively.

### Remediation:

Lock the pragma version and also consider known bugs (<https://github.com/ethereum/solidity/releases>) for the compiler version that is chosen.

Pragma statements can be allowed to float when a contract is intended for consumption by other developers, as in the case with contracts in a library or EthPM package. Otherwise, the developer would need to manually update the pragma in order to compile locally.

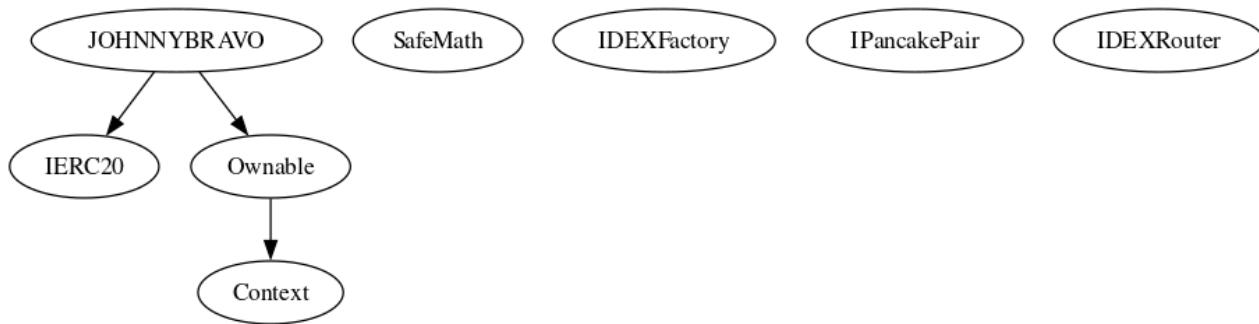
### References:

Ethereum Smart Contract Best Practices - Lock pragmas to specific compiler version.



# Inheritance

The contract for Johnny Bravo Inu has the following inheritance structure.



# Smart Contract Advance Checks

ID	Severity	Name	Result	Status
BRAVO-01	Minor	Potential Sandwich Attacks.	Pass	Not-Found
BRAVO-02	Minor	Function Visibility Optimization	Pass	Not-Found
BRAVO-03	Minor	Lack of Input Validation.	Pass	Not-Found
BRAVO-04	Major	Centralized Risk In addLiquidity.	Pass	Not-Found
BRAVO-05	Minor	Missing Event Emission.	Pass	Not-Found
BRAVO-06	Minor	Conformance with Solidity Naming Conventions.	Pass	Not-Found
BRAVO-07	Minor	State Variables could be Declared Constant.	Pass	Not-Found
BRAVO-08	Minor	Dead Code Elimination.	Pass	Not-Found
BRAVO-09	Major	Third Party Dependencies.	Pass	Not-Found
BRAVO-10	Major	Initial Token Distribution.	Pass	Not-Found
BRAVO-11	Major	multiAirdrop present in code.	Pass	Not-Found
BRAVO-12	Major	Centralization Risks In The X Role	Pass	Not-Found
BRAVO-13	Informational	Extra Gas Cost For User..	Pass	Not-Found
BRAVO-14	Medium	Unnecessary Use Of SafeMath	Pass	Not-Found
BRAVO-15	Medium	Symbol Length Limitation due to Solidity Naming Standards.	Pass	Not-Found



ID	Severity	Name	Result	Status
BRAVO-16	Medium	Invalid collection of Taxes during Transfer.	Pass	Not-Found
BRAVO-17	Informational	Conformance to numeric notation best practice.	Pass	Not-Found
BRAVO-18	Informational	Enable Trade and Exclude Exist to create a whitelist.	Pass	Not-found



# Technical Findings Summary

## Classification of Risk

Severity	Description
🔴 Critical	Risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.
🟠 Major	Risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.
🟡 Medium	Risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform
🟢 Minor	Risks can be any of the above but on a smaller scale. They generally do not compromise the overall integrity of the Project, but they may be less efficient than other solutions.
ℹ️ Informational	Errors are often recommended to improve the code's style or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.

## Findings

Severity	Found	Pending	Resolved
🔴 Critical	0	0	0
🟠 Major	0	0	0
🟡 Medium	0	0	0
🟢 Minor	0	0	0
ℹ️ Informational	0	0	0
Total	0	0	0



# Social Media Checks

Social Media	URL	Result
Twitter	<a href="https://twitter.com/johnnybravoinu">https://twitter.com/johnnybravoinu</a>	Pass
Other		Fail
Website	<a href="https://www.johnnybravoinu.com">https://www.johnnybravoinu.com</a>	Pass
Telegram	<a href="https://t.me/johnnybravogroup">https://t.me/johnnybravogroup</a>	Pass

We recommend to have 3 or more social media sources including a completed working websites.

**Social Media Information Notes:**

**Auditor Notes:** undefined

**Project Owner Notes:**



# Assessment Results

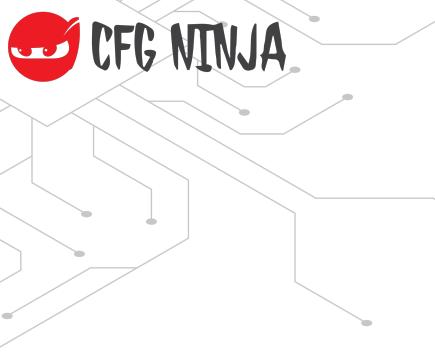
## Score Results

Review	Score
Overall Score	91/100
Auditor Score	80/100
Review by Section	Score
Manual Scan Score	35/53
SWC Scan Score	36 /37
Advance Check Score	20 /19

The Following Score System Has been Added to this page to help understand the value of the audit, the maximum score is 100, however to attain that value the project must pass and provide all the data needed for the assessment. Our Passing Score has been changed to 80 Points, if a project does not attain 80% is an automatic failure. Read our notes and final assessment below.

## Audit Passed





## Assessment Results

### Important Notes:

- No issues or vulnerabilities were found.

**Auditor Score =80**  
**Audit Passed**



# Appendix

## Finding Categories

### Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

### Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.

### Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how `block.timestamp` works.

### Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being invokeable by anyone under certain circumstances.

### Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

### Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

### Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different require statements on the input variables than a setter function.

### Coding Best Practices

ERC 20 Coding Standards are a set of rules that each developer should follow to ensure the code meets a set of criteria and is readable by all the developers.





## Disclaimer

CFGNINJA has conducted an independent security assessment to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the reviewed code for the scope of this assessment. This report does not constitute agreement, acceptance, or advocacy for the Project, and users relying on this report should not consider this as having any merit for financial advice in any shape, form, or nature. The contracts audited do not account for any economic developments that the Project in question may pursue, and the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude, and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are entirely free of exploits, bugs, vulnerabilities or depreciation of technologies.

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