



Smart Contract Audit

FOR

Pepe Escobar

DATED : 08 May 23'



AUDIT SUMMARY

Project name – Pepe Escobar

Date: 08 May, 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: **Passed**

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	1	0	0	1
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0

USED TOOLS

Tools:

1- Manual Review:

a line by line code review has been performed by audit ace team.

2- BSC Test Network:

all tests were done on BSC Test network, each test has its transaction has attached to it.

3- Slither : Static Analysis

Testnet Link: all tests were done using this contract, tests are done on BSC Testnet

<https://testnet.bscscan.com/token/0xb4dAe005CC549573B742d20e463b289ab7797EdC>



Token Information

Token Name : Pepe Escobar

Token Symbol: \$ELPEPE

Decimals: 18

Token Supply:1,000,000,000

Token Address:

0xb7374eaBD80E8b59F45ffe3f08B3BAA4a98DD7f

Checksum:

ff6d6364364fae41a49e053a3bddf9c42529d470

Owner:

0x2BAEA30c14d0e434B78316cFA7742960739D77Dc

Deployer:

0x2BAEA30c14d0e434B78316cFA7742960739D77Dc



TOKEN OVERVIEW

Fees:

Buy Fees: upto 10 %

Sell Fees: upto 10 %

Transfer Fees: upto 10%

Fees Privilege: owner

Ownership : Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: including or excluding from fees -
changing swap threshold - modifying fees - enabling
trades

AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
 - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
 - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
 - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
 - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
 - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
-

VULNERABILITY CHECKLIST

- | | |
|--|---|
|  Return values of low-level calls |  Gasless Send |
|  Private modifier |  Using block.timestamp |
|  Multiple Sends |  Re-entrancy |
|  Using Suicide |  Tautology or contradiction |
|  Gas Limitand Loops |  Timestamp Dependence |
|  Address hardcoded |  Revert/require functions |
|  Exception Disorder |  Use of tx.origin |
|  Using inline assembly |  Integer overflow/underflow |
|  Divide before multiply |  Dangerous strict equalities |
|  Missing Zero Address Validation |  Using SHA3 |
|  Compiler version not fixed |  Using throw |
-



CLASSIFICATION OF RISK

Severity

Description

◆ Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
◆ High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
◆ Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
◆ Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
◆ Gas Optimization /Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

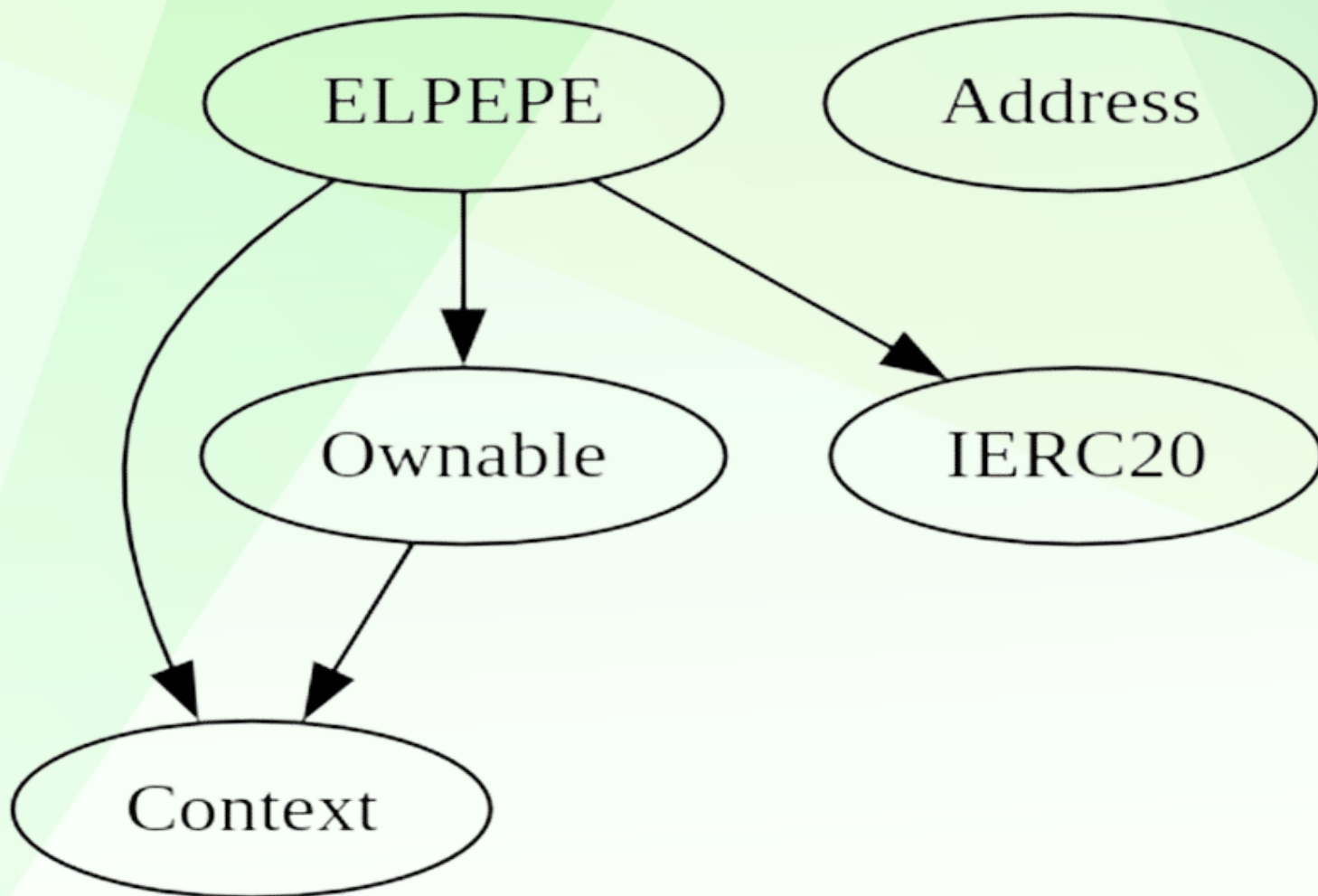
Findings

Severity

Found

◆ Critical	0
◆ High-Risk	1
◆ Medium-Risk	0
◆ Low-Risk	0
◆ Gas Optimization / Suggestions	1

INHERITANCE TREE



POINTS TO NOTE






















- Owner is not able to set set buy/sell/transfer fees over (10%) each
 - Owner is not able to set a max buy/transfer/wallet/sell amount
 - Owner is not able to blacklist an arbitrary wallet
 - Owner is not able to disable trades
 - Owner is not able to mint new tokens
 - **Owner must enable trades for holders to be able to trade**
-



CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
Context Implementation					
└	_msgSender	Internal	🔒		
└	_msgData	Internal	🔒		
Ownable Implementation Context					
└	<Constructor>	Public	!	🛑	NO!
└	owner	Public	!		NO!
└	renounceOwnership	Public	!	🛑	onlyOwner
└	transferOwnership	Public	!	🛑	onlyOwner
IERC20 Interface					
└	totalSupply	External	!		NO!
└	balanceOf	External	!		NO!
└	transfer	External	!	🛑	NO!
└	allowance	External	!		NO!
└	approve	External	!	🛑	NO!
└	transferFrom	External	!	🛑	NO!
Address Library					
└	isContract	Internal	🔒		
└	sendValue	Internal	🔒	🛑	
└	functionCall	Internal	🔒	🛑	
└	functionCall	Internal	🔒	🛑	
└	functionCallWithValue	Internal	🔒	🛑	
└	functionCallWithValue	Internal	🔒	🛑	
└	_functionCallWithValue	Private	🔒	🛑	
IUniswapV2Factory Interface					
└	feeTo	External	!		NO!
└	feeToSetter	External	!		NO!
└	getPair	External	!		NO!
└	allPairs	External	!		NO!
└	allPairsLength	External	!		NO!
└	createPair	External	!	🛑	NO!
└	setFeeTo	External	!	🛑	NO!
└	setFeeToSetter	External	!	🛑	NO!
IUniswapV2Pair Interface					
└	name	External	!		NO!


























CONTRACT ASSESMENT

```
|  | symbol | External ! | | NO ! |
|  | decimals | External ! | | NO ! |
|  | totalSupply | External ! | | NO ! |
|  | balanceOf | External ! | | NO ! |
|  | allowance | External ! | | NO ! |
|  | approve | External ! |  | NO ! |
|  | transfer | External ! |  | NO ! |
|  | transferFrom | External ! |  | NO ! |
|  | DOMAIN_SEPARATOR | External ! | | NO ! |
|  | PERMIT_TYPEHASH | External ! | | NO ! |
|  | nonces | External ! | | NO ! |
|  | permit | External ! |  | NO ! |
|  | MINIMUM_LIQUIDITY | External ! | | NO ! |
|  | factory | External ! | | NO ! |
|  | token0 | External ! | | NO ! |
|  | token1 | External ! | | NO ! |
|  | getReserves | External ! | | NO ! |
|  | price0CumulativeLast | External ! | | NO ! |
|  | price1CumulativeLast | External ! | | NO ! |
|  | kLast | External ! | | NO ! |
|  | burn | External ! |  | NO ! |
|  | swap | External ! |  | NO ! |
|  | skim | External ! |  | NO ! |
|  | sync | External ! |  | NO ! |
|  | initialize | External ! |  | NO ! |
| | | |
| **IUniswapV2Router01** | Interface | | |
|  | factory | External ! | | NO ! |
|  | WETH | External ! | | NO ! |
|  | addLiquidity | External ! |  | NO ! |
|  | addLiquidityETH | External ! |  | NO ! |
|  | removeLiquidity | External ! |  | NO ! |
|  | removeLiquidityETH | External ! |  | NO ! |
|  | removeLiquidityWithPermit | External ! |  | NO ! |
|  | removeLiquidityETHWithPermit | External ! |  | NO ! |
|  | swapExactTokensForTokens | External ! |  | NO ! |
|  | swapTokensForExactTokens | External ! |  | NO ! |
|  | swapExactETHForTokens | External ! |  | NO ! |
|  | swapTokensForExactETH | External ! |  | NO ! |
|  | swapExactTokensForETH | External ! |  | NO ! |
|  | swapETHForExactTokens | External ! |  | NO ! |
```



CONTRACT ASSESMENT

```
|  | quote | External ! | | NO! |
|  | getAmountOut | External ! | | NO! |
|  | getAmountIn | External ! | | NO! |
|  | getAmountsOut | External ! | | NO! |
|  | getAmountsIn | External ! | | NO! |
|  |  |
|  |  |
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |  |
|  | removeLiquidityETHSupportingFeeOnTransferTokens | External ! |  | NO! |
|  | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! |  | NO! |
|  | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! |  | NO! |
|  | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! |  | NO! |
|  | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! |  | NO! |
|  |  |
| **ELPEPE** | Implementation | Context, IERC20, Ownable |  |
|  | <Constructor> | Public ! |  | NO! |
|  | name | Public ! | | NO! |
|  | symbol | Public ! | | NO! |
|  | decimals | Public ! | | NO! |
|  | totalSupply | Public ! | | NO! |
|  | balanceOf | Public ! | | NO! |
|  | transfer | Public ! |  | NO! |
|  | allowance | Public ! | | NO! |
|  | approve | Public ! |  | NO! |
|  | transferFrom | Public ! |  | NO! |
|  | increaseAllowance | Public ! |  | NO! |
|  | decreaseAllowance | Public ! |  | NO! |
|  | isExcludedFromReward | Public ! | | NO! |
|  | totalReflectionDistributed | Public ! | | NO! |
|  | deliver | Public ! |  | NO! |
|  | reflectionFromToken | Public ! | | NO! |
|  | tokenFromReflection | Public ! | | NO! |
|  | excludeFromReward | Public ! |  | onlyOwner |
|  | includeInReward | External ! |  | onlyOwner |
|  | <Receive Ether> | External ! |  | NO! |
|  | claimStuckTokens | External ! |  | onlyOwner |
|  | _reflectFee | Private  |  |  |
|  | _getValues | Private  | |  |
|  | _getTValues | Private  | |  |
|  | _getRValues | Private  | |  |
|  | _getRate | Private  | |  |
|  | _getCurrentSupply | Private  | |  |
```

CONTRACT ASSESMENT

^	_takeLiquidity	Private 		
^	_takeMarketing	Private 		
^	calculateTaxFee	Private 		
^	calculateLiquidityFee	Private 		
^	calculateMarketingFee	Private 		
^	removeAllFee	Private 		
^	setBuyFee	Private 		
^	setSellFee	Private 		
^	isExcludedFromFee	Public 		NO 
^	_approve	Private 		
^	enableTrading	External 		onlyOwner
^	_transfer	Private 		
^	buybackAndBurn	Private 		
^	setSwapTokensAtAmount	External 		onlyOwner
^	setSwapEnabled	External 		onlyOwner
^	_tokenTransfer	Private 		
^	_transferStandard	Private 		
^	_transferToExcluded	Private 		
^	_transferFromExcluded	Private 		
^	_transferBothExcluded	Private 		
^	excludeFromFees	External 		onlyOwner
^	changeMarketingWallet	External 		onlyOwner
^	setBuyFeePercentages	External 		onlyOwner
^	setSellFeePercentages	External 		onlyOwner
^	enableWalletToWalletTransferWithoutFee	External 		onlyOwner

Legend

Symbol	Meaning
:-----: -----	
	Function can modify state
	Function is payable



STATIC ANALYSIS

```
nt256).tBuybackBurn (contracts/Token.sol#1106)
Variable ELPEPE._takeLiquidity(uint256).rBuybackBurn (contracts/Token.sol#900) is too similar to ELPEPE._takeLiquidity(uint256).tBuybackBurn (contracts/Token.sol#897)
Variable ELPEPE._takeLiquidity(uint256).rBuybackBurn (contracts/Token.sol#900) is too similar to ELPEPE._transferStandard(address,address,uint256).tBuybackBurn (contracts/Token.sol#1106)
Variable ELPEPE._transferFromExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1147) is too similar to ELPEPE._transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1172)
Variable ELPEPE._getRValues(uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#873) is too similar to ELPEPE._transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#1104)
Variable ELPEPE._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1170) is too similar to ELPEPE._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1149)
Variable ELPEPE._getRValues(uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#873) is too similar to ELPEPE._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1126)
Variable ELPEPE._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1170) is too similar to ELPEPE._transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1172)
Variable ELPEPE._transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1124) is too similar to ELPEPE._transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1172)
Variable ELPEPE._getValues(uint256).rTransferAmount (contracts/Token.sol#834) is too similar to ELPEPE._transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1172)
Variable ELPEPE._transferFromExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1147) is too similar to ELPEPE._transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#1104)
Variable ELPEPE._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1170) is too similar to ELPEPE._getValues(uint256).tTransferAmount (contracts/Token.sol#829)
Variable ELPEPE._getRValues(uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#873) is too similar to ELPEPE._transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1172)
Variable ELPEPE._transferFromExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1147) is too similar to ELPEPE._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1126)
Variable ELPEPE.reflectionFromToken(uint256,bool).rTransferAmount (contracts/Token.sol#765) is too similar to ELPEPE._transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1172)
Variable ELPEPE._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1170) is too similar to ELPEPE._transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#1104)
Variable ELPEPE._transferStandard(address,address,uint256).rTransferAmount (contracts/Token.sol#1102) is too similar to ELPEPE._transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1172)
Variable ELPEPE._transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1124) is too similar to ELPEPE._transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#1104)
Variable ELPEPE._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1170) is too similar to ELPEPE._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1126)
Variable ELPEPE._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1170) is too similar to ELPEPE._getValues(uint256).tTransferAmount (contracts/Token.sol#858)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

ELPEPE.DEAD (contracts/Token.sol#566) is never used in ELPEPE (contracts/Token.sol#525-1262)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

ELPEPE._decimals (contracts/Token.sol#539) should be constant
ELPEPE._name (contracts/Token.sol#537) should be constant
ELPEPE._symbol (contracts/Token.sol#538) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

ELPEPE._tTotal (contracts/Token.sol#542) should be immutable
ELPEPE.uniswapV2Pair (contracts/Token.sol#569) should be immutable
ELPEPE.uniswapV2Router (contracts/Token.sol#568) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All the functionalities have been tested, no issues were found

1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0xa789eca58a32a9c9b05301c2abae61fae1999ee38ad309dee6e5cb8056879192>

2- Buying when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x6f14f7675da5c3d374906ab075e900ea44201f4a20e95ccdbc59cc3c4a010f2c>

3- Selling when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0xe6ef912c8ddcd9c6a309937a23ffa8503b9d4f0593418b1daae8d0a16b752f1c>

4- Transferring when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x36bf015c441eb5f455132fe390ac62d48a6843b8e75e7326f444e88d7f790e2c>

5- Buying when not excluded (up to 10% tax) (passed):

<https://testnet.bscscan.com/tx/0x1141f5b74a02f5a02d0083753fe19cdd434a8e0fdb3ea030a8c69a0f3fadae02>

6- Selling when not excluded (up to 10% tax) (passed):

<https://testnet.bscscan.com/tx/0x1141f5b74a02f5a02d0083753fe19cdd434a8e0fdb3ea030a8c69a0f3fadae02>



FUNCTIONAL TESTING

7- Transferring when not excluded (upto 10% tax) (passed):

<https://testnet.bscscan.com/tx/0x9551bd98b8fa6e16e8cee19d7f2aa35d96695d6d1ce127d3b2cc85fc42945e3c>

8- Internal swap (buyback And Burn and marketing fees)

(passed):

<https://testnet.bscscan.com/tx/0x1a42d4b8140b25d82f8fddf5c59d8348756b3d19c22f9dd9f6145a5fdf69f1f8>

MANUAL TESTING

Centralization – Trades must be enabled

Severity: **High**

function: enableTrading

Status: Not Resolved

Overview:

The smart contract owner must enable trades for holders. If trading remain disabled, no one would be able to buy/sell/transfer tokens.

```
function enableTrading() external onlyOwner {  
    require(tradingEnabled == false, "Trading is already enabled");  
    tradingEnabled = true;  
}
```

Suggestion

To mitigate this centralization issue, we propose the following options:

1. Renounce Ownership: Consider relinquishing control of the smart contract by renouncing ownership. This would remove the ability for a single entity to manipulate the router, reducing centralization risks.
2. Multi-signature Wallet: Transfer ownership to a multi-signature wallet. This would require multiple approvals for any changes to the mainRouter, adding an additional layer of security and reducing the centralization risk.
3. Transfer ownership to a trusted and valid 3rd party in order to guarantee enabling of the trades

MANUAL TESTING

Informational – naming convention

Status: Not Resolved

Overview:

_takeLiquidity is collecting fees for buyback not liquidity

Suggestion:

change the name to something more related to buyback, like
“_takeBuyBackFee”



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