



Cyberscope

# Audit Report

## **Finy**

January 2023

Type	BEP20
Network	BSC
Address	0xDf7c22B1358591F589FfAfb122e13e6569A2a681
Audited by	© cyberscope

# Table of Contents

<b>Table of Contents</b>	<b>1</b>
<b>Review</b>	<b>2</b>
<b>Audit Updates</b>	<b>2</b>
<b>Source Files</b>	<b>2</b>
<b>Analysis</b>	<b>3</b>
<b>Diagnostics</b>	<b>4</b>
<b>L09 - Dead Code Elimination</b>	<b>5</b>
<b>Description</b>	<b>5</b>
<b>Recommendation</b>	<b>6</b>
<b>Functions Analysis</b>	<b>7</b>
<b>Inheritance Graph</b>	<b>9</b>
<b>Flow Graph</b>	<b>10</b>
<b>Summary</b>	<b>11</b>
<b>Disclaimer</b>	<b>12</b>
<b>About Cyberscope</b>	<b>13</b>

# Review

Contract Name	FINY
Compiler Version	v0.5.16+commit.9c3226ce
Optimization	200 runs
Explorer	<a href="https://bscscan.com/address/0xdf7c22b1358591f589ffafb122e13e6569a2a681">https://bscscan.com/address/0xdf7c22b1358591f589ffafb122e13e6569a2a681</a>
Address	0xdf7c22b1358591f589ffafb122e13e6569a2a681
Network	BSC
Symbol	FINY
Decimals	18
Total Supply	600,000,000

## Audit Updates

Initial Audit	24 Jan 2023
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## Source Files

Filename	SHA256
FINY.sol	8c1d81129c0ed59ff7be42c76505b43a73ee50a1eb72e2a30fca532b7aaf4088

# Analysis

● Critical ● Medium ● Minor / Informative ● Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Passed
●	OCTD	Transfers Contract's Tokens	Passed
●	OTUT	Transfers User's Tokens	Passed
●	ELFM	Exceeds Fees Limit	Passed
●	ULTW	Transfers Liquidity to Team Wallet	Passed
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

# Diagnostics

● Critical   ● Medium   ● Minor / Informative

Severity	Code	Description	Status
●	L09	Dead Code Elimination	Unresolved

## L09 - Dead Code Elimination

<b>Criticality</b>	Minor / Informative
<b>Location</b>	FINY.sol#L523,558
<b>Status</b>	Unresolved

### Description

In Solidity, dead code is code that is written in the contract, but is never executed or reached during normal contract execution. Dead code can occur for a variety of reasons, such as:

- Conditional statements that are always false.
- Functions that are never called.
- Unreachable code (e.g., code that follows a return statement).

Dead code can make a contract more difficult to understand and maintain, and can also increase the size of the contract and the cost of deploying and interacting with it.

```
function _burn(address account, uint256 amount) internal {
    require(account != address(0), "BEP20: burn from the zero address");

    _balances[account] = _balances[account].sub(amount, "BEP20: burn amount exceeds balance");
    _totalSupply = _totalSupply.sub(amount);
    emit Transfer(account, address(0), amount);
}

function _burnFrom(address account, uint256 amount) internal {
    _burn(account, amount);
    _approve(account, _msgSender(), _allowances[account][_msgSender()].sub(amount, "BEP20: burn amount exceeds allowance"));
}
```

## Recommendation

To avoid creating dead code, it's important to carefully consider the logic and flow of the contract and to remove any code that is not needed or that is never executed. This can help improve the clarity and efficiency of the contract.

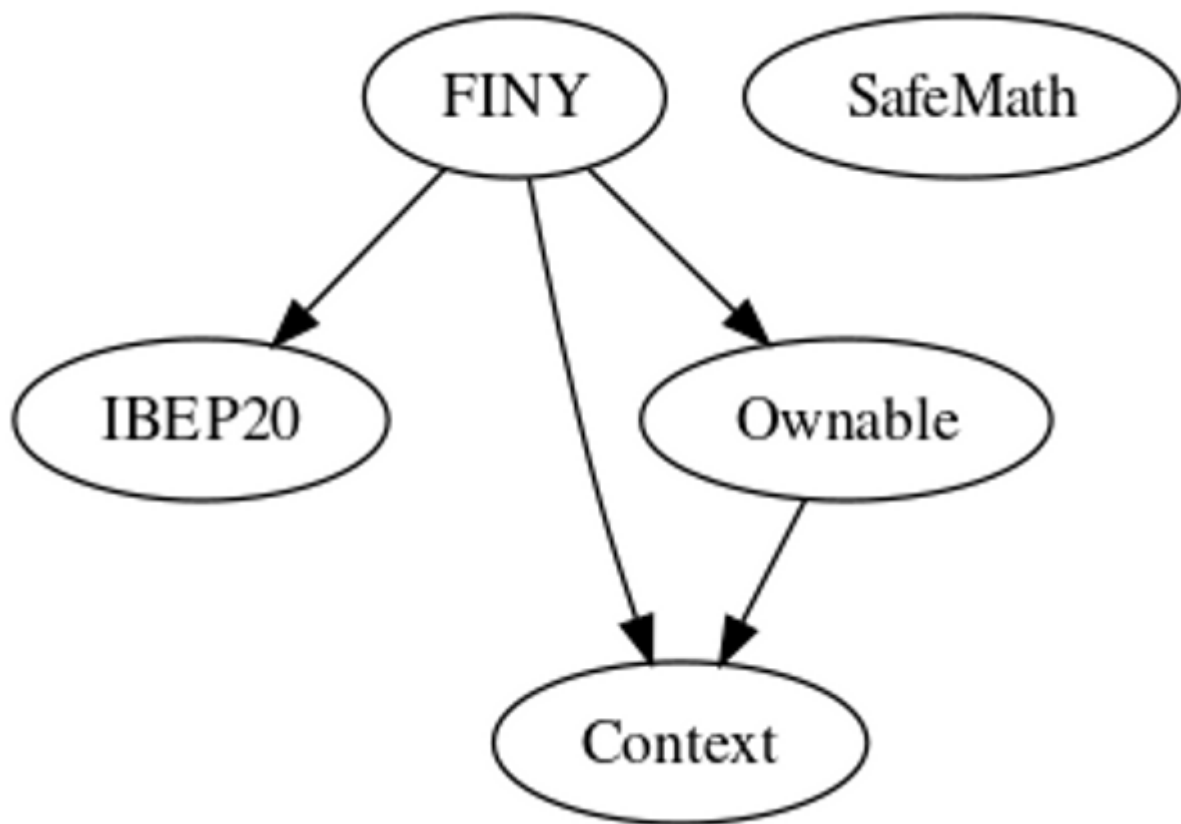
# Functions Analysis

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IBEP20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Context	Implementation			
		Internal	✓	
	_msgSender	Internal		
	_msgData	Internal		
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		



	mod	Internal		
	mod	Internal		
<b>Ownable</b>	Implementation	Context		
		Internal	✓	
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
<b>FINY</b>	Implementation	Context, IBEP20, Ownable		
		Public	✓	-
	getOwner	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_burnFrom	Internal	✓	

## Inheritance Graph



# Flow Graph



## Summary

Finy is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions.

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## About Cyberscope

Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



The Cyberscope team

<https://www.cyberscope.io>