

NIL Coin
Smart Contract
Audit Report





TABLE OF CONTENTS

| Audited Details

- Audited Project
- Blockchain
- Addresses
- Project Website
- Codebase

Summary

- Contract Summary
- Audit Findings Summary
- Vulnerabilities Summary

Conclusion

| Audit Results

Smart Contract Analysis

- Detected Vulnerabilities

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AUDITED DETAILS

| Audited Project

Project name	Token ticker	Blockchain
NIL Coin	NIL	Ethereum

Addresses

Contract address	0xD31B00deA80cF282aCE1791D204d76a85Fb82556	
Contract deployer address	0x51049066d8ce32D647c6e5E5a92E037040a7f70D	

Project Website

https://nilcoin.com/

Codebase

https://ethers can. io/address/0xD31B00de A80cF282a CE1791D204d76a85Fb82556# code



SUMMARY

NIL is the Official Crypto that rewards College Athletes for their name, image & likeness when promoting products and services on social media.

Contract Summary

Documentation Quality

NIL Coin provides a very good documentation with standard of solidity base code.

• The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

 Standard solidity basecode and rules are already followed by NIL Coin with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 134, 170, 193, 194, 233, 273, 546, 929, 929, 929, 929, 930, 930, 954, 954, 954, 954, 955, 955, 955, 1097, 1097, 1114, 1114, 1115, 1171, 1173, 1241, 1241, 1252, 1252, 1371, 1392, 1400, 1400, 1488 and 1173.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 24.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 1114, 1114, 1172, 1173, 1173, 1373, 1374, 1376, 1377, 1524 and 1525.



CONCLUSION

We have audited the NIL Coin project released on November 2021 to discover issues and identify potential security vulnerabilities in NIL Coin Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides a satisfactory result with some low-risk issues.

The issues found in the NIL Coin smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set and out of bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value.



AUDIT RESULT

Article	Category	Description	Result	
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.		
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS	
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	ct. PASS	
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	it PASS	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	owed PASS	
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS	
Assert Violation	SWC-110 SWC-123	. ,		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.		



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id	
Incorrect Constructor Name	SWC-118		PASS
Shadowing State Variable	SWC-119	19 State variables should not be shadowed.	
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	
Incorrect Inheritance Order	SWC-125		PASS
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS



Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	



SMART CONTRACT ANALYSIS

Started	Thursday Nov 25 2021 17:13:14 GMT+0000 (Coordinated Universal Time)		
Finished	Friday Nov 26 2021 23:27:39 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	NIL.sol		

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



LINE 134

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
function add(uint256 a, uint256 b) internal pure returns (uint256) {
   uint256 c = a + b;
   require(c >= a, "SafeMath: addition overflow");
   return c;
   return c;
}
```



LINE 170

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
169  require(b <= a, errorMessage);
170  uint256 c = a - b;
171
172  return c;
173  }
174</pre>
```



LINE 193

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
192
193    uint256 c = a * b;
194    require(c / a == b, "SafeMath: multiplication overflow");
195
196    return c;
197
```



LINE 194

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
193    uint256    c = a * b;
194    require(c / a == b, "SafeMath: multiplication overflow");
195
196    return c;
197    }
198
```



LINE 233

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
232    require(b > 0, errorMessage);
233    uint256 c = a / b;
234    // assert(a == b * c + a % b); // There is no case in which this doesn't hold
235
236    return c;
237
```



LINE 273

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
272 require(b != 0, errorMessage);
273 return a % b;
274 }
275 }
276
277
```



LINE 546

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
545 _owner = address(0);
546 _lockTime = block.timestamp + time;
547 emit OwnershipTransferred(_owner, address(0));
548 }
549
550
```



LINE 929

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
928 uint256 private constant MAX = ~uint256(0);
929 uint256 private _tTotal = 10000000000 * 10**3 * 10**8;
930 uint256 private _rTotal = (MAX - (MAX % _tTotal));
931 uint256 private _tFeeTotal;
932
933
```



LINE 929

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
928 uint256 private constant MAX = ~uint256(0);
929 uint256 private _tTotal = 10000000000 * 10**3 * 10**8;
930 uint256 private _rTotal = (MAX - (MAX % _tTotal));
931 uint256 private _tFeeTotal;
932
933
```



LINE 929

low SEVERITY

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Source File

- NIL.sol

```
928 uint256 private constant MAX = ~uint256(0);
929 uint256 private _tTotal = 10000000000 * 10**3 * 10**8;
930 uint256 private _rTotal = (MAX - (MAX % _tTotal));
931 uint256 private _tFeeTotal;
932
933
```



LINE 929

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
928 uint256 private constant MAX = ~uint256(0);
929 uint256 private _tTotal = 10000000000 * 10**3 * 10**8;
930 uint256 private _rTotal = (MAX - (MAX % _tTotal));
931 uint256 private _tFeeTotal;
932
933
```



LINE 930

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol



LINE 930

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol



LINE 954

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
953
954 uint256 public _maxTxAmount = 2000000 * 10**3 * 10**8;
955 uint256 public numTokensSellToAddToLiquidity = 1000000 * 10**3 * 10**8;
956
957 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
958
```



LINE 954

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
953
954 uint256 public _maxTxAmount = 2000000 * 10**3 * 10**8;
955 uint256 public numTokensSellToAddToLiquidity = 1000000 * 10**3 * 10**8;
956
957 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
958
```



LINE 954

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
953
954 uint256 public _maxTxAmount = 2000000 * 10**3 * 10**8;
955 uint256 public numTokensSellToAddToLiquidity = 1000000 * 10**3 * 10**8;
956
957 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
958
```



LINE 954

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
953
954 uint256 public _maxTxAmount = 2000000 * 10**3 * 10**8;
955 uint256 public numTokensSellToAddToLiquidity = 1000000 * 10**3 * 10**8;
956
957 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
958
```



LINE 955

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
954  uint256 public _maxTxAmount = 2000000 * 10**3 * 10**8;
955  uint256 public numTokensSellToAddToLiquidity = 1000000 * 10**3 * 10**8;
956
957  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
958  event SwapAndLiquifyEnabledUpdated(bool enabled);
959
```



LINE 955

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
954  uint256 public _maxTxAmount = 2000000 * 10**3 * 10**8;
955  uint256 public numTokensSellToAddToLiquidity = 1000000 * 10**3 * 10**8;
956
957  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
958  event SwapAndLiquifyEnabledUpdated(bool enabled);
959
```



LINE 955

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
954  uint256 public _maxTxAmount = 2000000 * 10**3 * 10**8;
955  uint256 public numTokensSellToAddToLiquidity = 1000000 * 10**3 * 10**8;
956
957  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
958  event SwapAndLiquifyEnabledUpdated(bool enabled);
959
```



LINE 955

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
954  uint256 public _maxTxAmount = 2000000 * 10**3 * 10**8;
955  uint256 public numTokensSellToAddToLiquidity = 1000000 * 10**3 * 10**8;
956
957  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
958  event SwapAndLiquifyEnabledUpdated(bool enabled);
959
```



LINE 1097

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
1096    removeAllFee();
1097    _transfer(_msgSender(), recipient, amount * 10**8);
1098    restoreAllFee();
1099    }
1100
1101
```



LINE 1097

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
1096    removeAllFee();
1097    _transfer(_msgSender(), recipient, amount * 10**8);
1098    restoreAllFee();
1099    }
1100
1101
```



LINE 1114

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
1113  while (iterator < newholders.length) {
1114   airdropInternal(newholders[iterator], amounts[iterator] * 10**8);
1115   iterator += 1;
1116  }
1117  }
1118</pre>
```



LINE 1114

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
1113 while (iterator < newholders.length) {
1114    airdropInternal(newholders[iterator], amounts[iterator] * 10**8);
1115    iterator += 1;
1116    }
1117   }
1118</pre>
```



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 1115

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
1114 airdropInternal(newholders[iterator], amounts[iterator] * 10**8);
1115 iterator += 1;
1116 }
1117 }
1118
1119
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1171

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
1170 require(_isExcluded[account], "Account is already excluded");
1171 for (uint256 i = 0; i < _excluded.length; i++) {
1172   if (_excluded[i] == account) {
1173    _excluded[i] = _excluded[_excluded.length - 1];
1174   _tOwned[account] = 0;
1175</pre>
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1173

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
if (_excluded[i] == account) {
    1173     _excluded[i] = _excluded[_excluded.length - 1];
    1174     _tOwned[account] = 0;
    1175     _isExcluded[account] = false;
    1176     _excluded.pop();
    1177
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1241

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
1240 );
1241 _maxTxAmount = maxTxAmount * 10**8;
1242 }
1243
1244 function setSwapThresholdAmount(uint256 SwapThresholdAmount)
1245
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1241

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
1240 );
1241 _maxTxAmount = maxTxAmount * 10**8;
1242 }
1243
1244 function setSwapThresholdAmount(uint256 SwapThresholdAmount)
1245
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1252

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
1251 );
1252 numTokensSellToAddToLiquidity = SwapThresholdAmount * 10**8;
1253 }
1254
1255 function claimTokens(address walletAddress) public onlyOwner {
1256
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1252

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
1251 );
1252 numTokensSellToAddToLiquidity = SwapThresholdAmount * 10**8;
1253 }
1254
1255 function claimTokens(address walletAddress) public onlyOwner {
1256
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1371

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1392

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
function calculateTaxFee(uint256 _amount) private view returns (uint256) {
  return _amount.mul(_taxFee).div(10**2);
  }
  }
  function calculateLiquidityFee(uint256 _amount)
  function calculateLiquidityFee(uint256 _amount)
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1400

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
1399 {
1400  return _amount.mul(_liquidityFee + _burnFee).div(10**2);
1401 }
1402
1403  function removeAllFee() private {
1404
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1400

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
1399 {
1400  return _amount.mul(_liquidityFee + _burnFee).div(10**2);
1401 }
1402
1403  function removeAllFee() private {
1404
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1488

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol

```
// split the contract balance to burnAmt and liquifyAmt
uint256 totalFee = _liquidityFee + _burnFee;
uint256 burnAmt = contractTokenBalance.mul(_burnFee).div(totalFee);
uint256 liquifyAmt = contractTokenBalance.sub(burnAmt);
1491
1492
```



SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 1173

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- NIL.sol



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 24

low SEVERITY

The current pragma Solidity directive is ""^0.8.9"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- NIL.sol

```
23
24 pragma solidity ^0.8.9;
25
26 // SPDX-License-Identifier: Unlicensed
27 interface IERC20 {
```



LINE 1114

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- NIL.sol

```
1113 while (iterator < newholders.length) {
1114    airdropInternal(newholders[iterator], amounts[iterator] * 10**8);
1115    iterator += 1;
1116    }
1117    }
1118</pre>
```



LINE 1114

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- NIL.sol

```
1113 while (iterator < newholders.length) {
1114    airdropInternal(newholders[iterator], amounts[iterator] * 10**8);
1115    iterator += 1;
1116    }
1117    }
1118</pre>
```



LINE 1172

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- NIL.sol



LINE 1173

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- NIL.sol

```
1172  if (_excluded[i] == account) {
1173    _excluded[i] = _excluded[_excluded.length - 1];
1174    _tOwned[account] = 0;
1175    _isExcluded[account] = false;
1176    _excluded.pop();
1177
```



LINE 1173

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- NIL.sol

```
1172  if (_excluded[i] == account) {
1173    _excluded[i] = _excluded[_excluded.length - 1];
1174    _tOwned[account] = 0;
1175    _isExcluded[account] = false;
1176    _excluded.pop();
1177
```



LINE 1373

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- NIL.sol



LINE 1374

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- NIL.sol

```
1373 _rOwned[_excluded[i]] > rSupply ||
1374 _tOwned[_excluded[i]] > tSupply
1375 ) return (_rTotal, _tTotal);
1376 rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1377 tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1378
```



LINE 1376

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- NIL.sol

```
1375  ) return (_rTotal, _tTotal);
1376  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1377  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1378  }
1379  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1380</pre>
```



LINE 1377

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- NIL.sol

```
1376  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1377  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1378  }
1379  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1380  return (rSupply, tSupply);
1381</pre>
```



LINE 1524

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- NIL.sol

```
address[] memory path = new address[](2);
path[0] = address(this);

path[1] = uniswapV2Router.WETH();

1526

1527   _approve(address(this), address(uniswapV2Router), tokenAmount);

1528
```



LINE 1525

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- NIL.sol

```
1524 path[0] = address(this);
1525 path[1] = uniswapV2Router.WETH();
1526
1527 _approve(address(this), address(uniswapV2Router), tokenAmount);
1528
1529
```



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