

TOUCHDOWN SHIBA INU
Smart Contract
Audit Report



28 Dec 2022



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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
TOUCHDOWN SHIBA INU	TDSHIB	Ethereum

Addresses

Contract address	0x52Ab6Ac58878BDFD96253a568b20B3A376b95858
Contract deployer address	0xC6E62cC7ECB029fF877e875Bac3094F16e240f3C

Project Website

https://touchdownshib.com/

Codebase

https://ethers can.io/address/0x52Ab6Ac58878BDFD96253a568b20B3A376b95858# code



SUMMARY

TOUCHDOWN SHIBA INU (\$TDSHIB) is a Decentralized Finance (DeFi) token on ETHEREUM (ERC-20).

TOUCHDOWN SHIB INU is a decentralized Meme Token with Play To Earn (P2E) Minigames, NFTs, DApps,

Lottery Function and the American Football sports theme.

Contract Summary

Documentation Quality

TOUCHDOWN SHIBA INU 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 TOUCHDOWN SHIBA INU with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 969.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 120, 156, 179, 180, 219, 259, 531, 941, 941, 941, 942, 942, 972, 972, 972, 972, 973, 973, 973, 974, 974, 974, 974, 1203, 1206, 1227, 1229, 1276, 1283, 1346, 1367, 1375, 1432, 1206 and 1229.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 10.
- 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 1204, 1205, 1205, 1228, 1229, 1229, 1348, 1349, 1351, 1352, 1507 and 1508.
- SWC-115 | tx.origin should not be used for authorization, use msg.sender instead on lines 1426.



CONCLUSION

We have audited the TOUCHDOWN SHIBA INU project released on December 2022 to discover issues and identify potential security vulnerabilities in TOUCHDOWN SHIBA INU 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 TOUCHDOWN SHIBA INU 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, a state variable visibility is not set, "tx.origin" as a part of authorization control, 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. We recommend avoiding using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.



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.		
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.		
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.		
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	Properly functioning code should never reach a ISSU failing assert statement. FOUL		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used. PAS		
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS	



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
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.	PASS
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	Constructors are special functions that are called only once during the contract creation.	
Shadowing State Variable	SWC-119	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 When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.		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.	PASS



SMART CONTRACT ANALYSIS

Started	Tuesday Dec 27 2022 10:27:01 GMT+0000 (Coordinated Universal Time)		
Finished	Wednesday Dec 28 2022 03:13:44 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	TouchDownShibaInu.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	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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LINE 120

low SEVERITY

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

Source File

- TouchDownShibalnu.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 156

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
155 require(b <= a, errorMessage);
156 uint256 c = a - b;
157
158 return c;
159 }
160
```



LINE 179

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
178
179    uint256    c = a * b;
180    require(c / a == b, "SafeMath: multiplication overflow");
181
182    return c;
183
```



LINE 180

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
179    uint256    c = a * b;
180    require(c / a == b, "SafeMath: multiplication overflow");
181
182    return c;
183    }
184
```



LINE 219

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
218  require(b > 0, errorMessage);
219  uint256 c = a / b;
220   // assert(a == b * c + a % b); // There is no case in which this doesn't hold
221
222  return c;
223
```



LINE 259

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
258 require(b != 0, errorMessage);
259 return a % b;
260 }
261 }
262
263
```



LINE 531

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
__owner = address(0);
531    _lockTime = block.timestamp + time;
532    emit OwnershipTransferred(_owner, address(0));
533  }
534
535
```



LINE 941

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
940 uint256 private constant MAX = ~uint256(0);
941 uint256 private _tTotal = 10000000000 * 10**6 * 10**8;
942 uint256 private _rTotal = (MAX - (MAX % _tTotal));
943 uint256 private _tFeeTotal;
944
945
```



LINE 941

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944
945
```



LINE 942

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
941 uint256 private _tTotal = 1000000000 * 10**6 * 10**8;
942 uint256 private _rTotal = (MAX - (MAX % _tTotal));
943 uint256 private _tFeeTotal;
944
945
946
```



LINE 942

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
941 uint256 private _tTotal = 1000000000 * 10**6 * 10**8;
942 uint256 private _rTotal = (MAX - (MAX % _tTotal));
943 uint256 private _tFeeTotal;
944
945
946
```



LINE 972

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
971
972 uint256 public _maxTxAmount = 10000000000 * 10**6 * 10**8;
973 uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**8;
974 uint256 public _maxWalletSize = 1 * 10**13 * 10**8;
975
976
```



LINE 972

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
971
972 uint256 public _maxTxAmount = 10000000000 * 10**6 * 10**8;
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975
976
```



LINE 973

low SEVERITY

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Source File

- TouchDownShibalnu.sol

```
972 uint256 public _maxTxAmount = 10000000000 * 10**6 * 10**8;
973 uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**8;
974 uint256 public _maxWalletSize = 1 * 10**13 * 10**8;
975
976 event botAddedToBlacklist(address account);
977
```



LINE 973

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
972 uint256 public _maxTxAmount = 10000000000 * 10**6 * 10**8;
973 uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**8;
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975
976 event botAddedToBlacklist(address account);
977
```



LINE 974

low SEVERITY

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Source File

- TouchDownShibalnu.sol

```
973  uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**8;
974  uint256 public _maxWalletSize = 1 * 10**13 * 10**8;
975
976  event botAddedToBlacklist(address account);
977  event botRemovedFromBlacklist(address account);
978
```



LINE 974

low SEVERITY

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Source File

- TouchDownShibalnu.sol

```
973  uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**8;
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977  event botRemovedFromBlacklist(address account);
978
```



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```
973  uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**8;
974  uint256 public _maxWalletSize = 1 * 10**13 * 10**8;
975
976  event botAddedToBlacklist(address account);
977  event botRemovedFromBlacklist(address account);
978
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1203

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
require(_isBlackListedBot[account], "Account is not blacklisted");
for (uint256 i = 0; i < _blackListedBots.length; i++) {
  if (_blackListedBots[i] == account) {
    _blackListedBots[i] = _blackListedBots[
    _blackListedBots.length - 1
    _blackListedBots.length - 1</pre>
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1206

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
1205    _blackListedBots[i] = _blackListedBots[
1206    _blackListedBots.length - 1
1207    ];
1208    _isBlackListedBot[account] = false;
1209    _blackListedBots.pop();
1210
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1227

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
require(_isExcluded[account], "Account is not excluded");
for (uint256 i = 0; i < _excluded.length; i++) {
  if (_excluded[i] == account) {
    _excluded[i] = _excluded.length - 1];
    _tOwned[account] = 0;
}</pre>
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1229

low SEVERITY

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

Source File

- TouchDownShibalnu.sol



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1276

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner {
    _maxTxAmount = _tTotal.mul(maxTxPercent).div(10**2);
}

1277  }

1278

1279  function _setMaxWalletSizePercent(uint256 maxWalletSize)
1280
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1283

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
1282 {
1283   _maxWalletSize = _tTotal.mul(maxWalletSize).div(10**2);
1284 }
1285
1286   function setSwapAndLiquifyEnabled(bool _enabled) public onlyOwner {
1287
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1346

low SEVERITY

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

Source File

- TouchDownShibalnu.sol



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1367

low SEVERITY

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

Source File

- TouchDownShibalnu.sol



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1375

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
1374 {
1375  return _amount.mul(_liquidityFee).div(10**2);
1376 }
1377
1378  function removeAllFee() private {
1379
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1432

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
1431 if(to != uniswapV2Pair) {
1432  require(balanceOf(to) + amount < _maxWalletSize, "TOKEN: Balance exceeds wallet
size!");
1433  }
1434  }
1435
1436</pre>
```



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

LINE 1206

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
1205    _blackListedBots[i] = _blackListedBots[
1206    _blackListedBots.length - 1
1207    ];
1208    _isBlackListedBot[account] = false;
1209    _blackListedBots.pop();
1210
```



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

LINE 1229

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
if (_excluded[i] == account) {
l229    _excluded[i] = _excluded[_excluded.length - 1];
l230    _tOwned[account] = 0;
l231    _isExcluded[account] = false;
l232    _excluded.pop();
l233
```



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 10

low SEVERITY

The current pragma Solidity directive is ""^0.8.10"". 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

- TouchDownShibalnu.sol

```
9
10 pragma solidity ^0.8.10;
11
12 // SPDX-License-Identifier: Unlicensed
13 interface IERC20 {
14
```



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 969

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.

Source File

- TouchDownShibaInu.sol

```
968
969 bool inSwapAndLiquify;
970 bool public swapAndLiquifyEnabled = true;
971
972 uint256 public _maxTxAmount = 10000000000 * 10**6 * 10**8;
973
```



SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 1426

low SEVERITY

Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

Source File

- TouchDownShibalnu.sol

```
require(!_isBlackListedBot[msg.sender], "you are blacklisted");
require(!_isBlackListedBot[tx.origin], "blacklisted");

1427

1428 if (!_isExcludedFromLimit[from] && !_isExcludedFromLimit[to]) {

1429 require(amount <= _maxTxAmount, "Transfer amount exceeds the maxTxAmount.");

1430
```



LINE 1204

low SEVERITY

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

Source File

- TouchDownShibalnu.sol



LINE 1205

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
if (_blackListedBots[i] == account) {
    _blackListedBots[i] = _blackListedBots[
    _blackListedBots.length - 1
    ];
    _isBlackListedBot[account] = false;
    1208
    _isBlackListedBot[account] = false;
    1209
```



LINE 1205

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
if (_blackListedBots[i] == account) {
    _blackListedBots[i] = _blackListedBots[
    _blackListedBots.length - 1
    ];
    _isBlackListedBot[account] = false;
    1208
    _isBlackListedBot[account] = false;
    1209
```



LINE 1228

low SEVERITY

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

Source File

- TouchDownShibalnu.sol



LINE 1229

low SEVERITY

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

Source File

- TouchDownShibalnu.sol



LINE 1229

low SEVERITY

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

Source File

- TouchDownShibalnu.sol



LINE 1348

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
if (
1348    _rOwned[_excluded[i]] > rSupply ||
1349    _tOwned[_excluded[i]] > tSupply
1350    ) return (_rTotal, _tTotal);
1351    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1352
```



LINE 1349

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
1348 _rOwned[_excluded[i]] > rSupply ||
1349 _tOwned[_excluded[i]] > tSupply
1350 ) return (_rTotal, _tTotal);
1351 rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1352 tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1353
```



LINE 1351

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
1350  ) return (_rTotal, _tTotal);
1351  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1352  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1353  }
1354  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1355</pre>
```



LINE 1352

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
1351  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1352  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1353  }
1354  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1355  return (rSupply, tSupply);
1356</pre>
```



LINE 1507

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
1506  address[] memory path = new address[](2);
1507  path[0] = address(this);
1508  path[1] = uniswapV2Router.WETH();
1509
1510  _approve(address(this), address(uniswapV2Router), tokenAmount);
1511
```



LINE 1508

low SEVERITY

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

Source File

- TouchDownShibalnu.sol

```
1507 path[0] = address(this);
1508 path[1] = uniswapV2Router.WETH();
1509
1510 _approve(address(this), address(uniswapV2Router), tokenAmount);
1511
1512
```



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