

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	
Lobby Token	LBY	Ethereum	

Addresses

Contract address	0xac042d9284df95cc6bd35982f6a61e3e7a6f875b
Contract deployer address	0x98600d7F402950f830D510CCc9d3ead4f6109033

Project Website

https://www.lobbytoken.io/

Codebase

https://etherscan.io/address/0xac042d9284df95cc6bd35982f6a61e3e7a6f875b#code



SUMMARY

\$LBY is a governance token that powers and secures the Lobby DAO. Holders of \$LBY can vote on proposals for Lobby DAO as well as all future products within the Lobby DAO ecosystem.

Contract Summary

Documentation Quality

Lobby Token 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 Lobby Token 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 723 and 749.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 156, 188, 206, 206, 242, 282, 503, 753, 753, 753, 753, 753, 754, 773, 773, 773, 773, 774, 774, 774, 871, 871, 883, 884, 884, 922, 924, 972, 972, 980, 980, 1052, 1083, 1085, 1188 and 924.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 51.
- 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 882, 883, 922, 923, 924, 1052, 1053, 1058, 1059, 1198 and 1199.



CONCLUSION

We have audited the Lobby Token project released on November 2022 to discover issues and identify potential security vulnerabilities in Lobby Token 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 in the Lobby Token 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, and out-of-bounds array access which the index access expression can cause an exception in case of using 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.	ISSUE FOUND	
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.	the 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.		
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.		
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.		
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. PAS		



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	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/.	
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		
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	Monday Nov 21 2022 00:28:45 GMT+0000 (Coordinated Universal Time)		
Finished	Tuesday Nov 22 2022 21:54:14 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	Lobby.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
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SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
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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-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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LINE 156

low SEVERITY

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

Source File

- Lobby.sol

```
155 *
156 * - Subtraction cannot overflow.
157 */
158 function sub(uint256 a, uint256 b, string memory errorMessage) internal pure returns (uint256) {
159 require(b <= a, errorMessage);
160
```



LINE 188

low SEVERITY

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

Source File

- Lobby.sol

```
187 }
188
189 /**
190 * @dev Returns the integer division of two unsigned integers. Reverts on
191 * division by zero. The result is rounded towards zero.
192
```



LINE 206

low SEVERITY

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

Source File

- Lobby.sol

```
205 /**
206 * @dev Returns the integer division of two unsigned integers. Reverts with custom message on
207 * division by zero. The result is rounded towards zero.
208 *
209 * Counterpart to Solidity's `/` operator. Note: this function uses a
210
```



LINE 206

low SEVERITY

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

Source File

- Lobby.sol

```
205 /**
206 * @dev Returns the integer division of two unsigned integers. Reverts with custom message on
207 * division by zero. The result is rounded towards zero.
208 *
209 * Counterpart to Solidity's `/` operator. Note: this function uses a
210
```



LINE 242

low SEVERITY

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

Source File

- Lobby.sol

```
241  /**
242  * @dev Returns the remainder of dividing two unsigned integers. (unsigned integer
modulo),
243  * Reverts with custom message when dividing by zero.
244  *
245  * Counterpart to Solidity's `%` operator. This function uses a `revert`
246
```



LINE 282

low SEVERITY

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

Source File

- Lobby.sol

```
* It is unsafe to assume that an address for which this function returns

* false is an externally-owned account (EOA) and not a contract.

* Among others, `isContract` will return false for the following

* types of addresses:
```



LINE 503

low SEVERITY

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

Source File

- Lobby.sol

```
502
503 function getPair(address tokenA, address tokenB) external view returns (address pair);
504 function allPairs(uint) external view returns (address pair);
505 function allPairsLength() external view returns (uint);
506
507
```



LINE 753

low SEVERITY

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

Source File

- Lobby.sol

```
752  uint256 public _maxTxAmount = 1000000 * 10**3 * 10**9;
753  uint256 public numTokensSellToAddToLiquidity = 1000000 * 10**3 * 10**9;
754
755  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
756  event SwapAndLiquifyEnabledUpdated(bool enabled);
757
```



LINE 753

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LINE 754

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Source File

- Lobby.sol

```
753  uint256 public numTokensSellToAddToLiquidity = 1000000 * 10**3 * 10**9;
754
755  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
756  event SwapAndLiquifyEnabledUpdated(bool enabled);
757  event SwapAndLiquify(
758
```



LINE 773

low SEVERITY

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

Source File

- Lobby.sol

```
//IUniswapV2Router02 _uniswapV2Router =
IUniswapV2Router02(0x10ED43C718714eb63d5aA57B78B54704E256024E); //Mainnet BSC
//IUniswapV2Router02 _uniswapV2Router =
IUniswapV2Router02(0x9Ac64Cc6e4415144C455BD8E4837Fea55603e5c3); //Testnet BSC
//IUniswapV2Router02 _uniswapV2Router =
IUniswapV2Router02(0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D); //Mainnet & Testnet ETH
// Create a uniswap pair for this new token
// uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory())
```



LINE 773

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// Create a uniswap pair for this new token
uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory())
.createPair(address(this), _uniswapV2Router.WETH());
// Restnet BSC
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// Testnet BSC
// Mainnet & Testnet ETH
// Create Auniswap pair for this new token
// UniswapV2Factory(_uniswapV2Factory())
// Testnet BSC
// Mainnet & Testnet ETH
// Create AuniswapV2Factory(_uniswapV2Factory())
// Testnet ETH
// Create AuniswapV2Factory(_uniswapV2Factory())
// Testnet ETH
// Create AuniswapV2Factory(_uniswapV2Factory())
// Testnet ETH
// Create AuniswapV2Factory(_uniswapV2Factory(_uniswapV2Factory(_uniswapV2Factory(_uniswapV2Factory(_uniswapV2Factory(_uniswapV2Factory(_uniswapV2Factor
```



LINE 871

low SEVERITY

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

Source File

- Lobby.sol

```
address sender = _msgSender();
require(!_isExcluded[sender], "Excluded addresses cannot call this function");
(uint256 rAmount,,,,) = _getValues(tAmount);
_rOwned[sender] = _rOwned[sender].sub(rAmount);
_rTotal = _rTotal.sub(rAmount);
```



LINE 871

low SEVERITY

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

Source File

- Lobby.sol

```
address sender = _msgSender();
require(!_isExcluded[sender], "Excluded addresses cannot call this function");
(uint256 rAmount,,,,) = _getValues(tAmount);
_rOwned[sender] = _rOwned[sender].sub(rAmount);
_rTotal = _rTotal.sub(rAmount);
```



LINE 883

low SEVERITY

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

Source File

- Lobby.sol

```
882  return rAmount;
883  } else {
884   (,uint256 rTransferAmount,,,,) = _getValues(tAmount);
885  return rTransferAmount;
886  }
887
```



LINE 884

low SEVERITY

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

Source File

- Lobby.sol

```
883  } else {
884   (,uint256 rTransferAmount,,,,) = _getValues(tAmount);
885   return rTransferAmount;
886  }
887  }
888
```



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 884

low SEVERITY

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

Source File

- Lobby.sol

```
883  } else {
884   (,uint256 rTransferAmount,,,,) = _getValues(tAmount);
885   return rTransferAmount;
886  }
887  }
888
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 922

low SEVERITY

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

Source File

- Lobby.sol

```
g21 _tOwned[recipient] = _tOwned[recipient].add(tTransferAmount);
g22 _rOwned[recipient] = _rOwned[recipient].add(rTransferAmount);
g23 _takeLiquidity(tLiquidity);
g24 _reflectFee(rFee, tFee);
g25 emit Transfer(sender, recipient, tTransferAmount);
g26
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 924

low SEVERITY

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

Source File

- Lobby.sol

```
923  _takeLiquidity(tLiquidity);
924  _reflectFee(rFee, tFee);
925  emit Transfer(sender, recipient, tTransferAmount);
926  }
927
928
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 972

low SEVERITY

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

Source File

- Lobby.sol

```
971
972 function clearStuckBalance (address payable walletaddress) external onlyOwner() {
973 walletaddress.transfer(address(this).balance);
974 }
975
976
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 972

low SEVERITY

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

Source File

- Lobby.sol

```
971
972 function clearStuckBalance (address payable walletaddress) external onlyOwner() {
973 walletaddress.transfer(address(this).balance);
974 }
975
976
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 980

low SEVERITY

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

Source File

- Lobby.sol

```
979
980 function removeBotWallet(address botwallet) external onlyOwner() {
981 botWallets[botwallet] = false;
982 }
983
984
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 980

low SEVERITY

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

Source File

- Lobby.sol

```
979
980 function removeBotWallet(address botwallet) external onlyOwner() {
981 botWallets[botwallet] = false;
982 }
983
984
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1052

low SEVERITY

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

Source File

- Lobby.sol

```
1051
1052 function calculateTaxFee(uint256 _amount) private view returns (uint256) {
1053 return _amount.mul(_taxFee).div(
1054 10**2
1055 );
1056
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1083

low SEVERITY

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

Source File

- Lobby.sol

```
1082
1083 function _approve(address owner, address spender, uint256 amount) private {
1084 require(owner != address(0), "ERC20: approve from the zero address");
1085 require(spender != address(0), "ERC20: approve to the zero address");
1086
1087
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1085

low SEVERITY

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

Source File

- Lobby.sol

```
require(owner != address(0), "ERC20: approve from the zero address");
require(spender != address(0), "ERC20: approve to the zero address");

1086

1087 _allowances[owner][spender] = amount;

1088 emit Approval(owner, spender, amount);

1089
```



SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 1188

low SEVERITY

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

Source File

- Lobby.sol

```
1187 block.timestamp
1188 );
1189 }
1190
1191 function addLiquidity(uint256 tokenAmount, uint256 ethAmount) private {
1192
```



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

LINE 924

low SEVERITY

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

Source File

- Lobby.sol

```
923  _takeLiquidity(tLiquidity);
924  _reflectFee(rFee, tFee);
925  emit Transfer(sender, recipient, tTransferAmount);
926  }
927
928
```



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 51

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

- Lobby.sol

```
* @dev Returns the remaining number of tokens that `spender` will be
* allowed to spend on behalf of `owner` through {transferFrom}. This is
* zero by default.

* This value changes when {approve} or {transferFrom} are called.

* This value changes when {approve} or {transferFrom} are called.
```



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 723

low SEVERITY

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

Source File

- Lobby.sol

```
722 mapping (address => bool) private botWallets;
723 bool botscantrade = false;
724
725 bool public canTrade = false;
726 uint256 public launchTime;
727
```



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 749

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

- Lobby.sol

```
748
749 bool inSwapAndLiquify;
750 bool public swapAndLiquifyEnabled = true;
751
752 uint256 public _maxTxAmount = 1000000 * 10**3 * 10**9;
753
```



LINE 882

low SEVERITY

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

Source File

- Lobby.sol

```
881 (uint256 rAmount,,,,,) = _getValues(tAmount);
882 return rAmount;
883 } else {
884 (,uint256 rTransferAmount,,,,) = _getValues(tAmount);
885 return rTransferAmount;
886
```



LINE 883

low SEVERITY

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

Source File

- Lobby.sol



LINE 922

low SEVERITY

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

Source File

- Lobby.sol

```
g21 _tOwned[recipient] = _tOwned[recipient].add(tTransferAmount);
g22 _rOwned[recipient] = _rOwned[recipient].add(rTransferAmount);
g23 _takeLiquidity(tLiquidity);
g24 _reflectFee(rFee, tFee);
g25 emit Transfer(sender, recipient, tTransferAmount);
g26
```



LINE 923

low SEVERITY

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

Source File

- Lobby.sol

```
922   _rOwned[recipient] = _rOwned[recipient].add(rTransferAmount);
923   _takeLiquidity(tLiquidity);
924   _reflectFee(rFee, tFee);
925   emit Transfer(sender, recipient, tTransferAmount);
926  }
927
```



LINE 924

low SEVERITY

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

Source File

- Lobby.sol

```
923  _takeLiquidity(tLiquidity);
924  _reflectFee(rFee, tFee);
925  emit Transfer(sender, recipient, tTransferAmount);
926  }
927
928
```



LINE 1052

low SEVERITY

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

Source File

- Lobby.sol

```
1051
1052 function calculateTaxFee(uint256 _amount) private view returns (uint256) {
1053  return _amount.mul(_taxFee).div(
1054  10**2
1055  );
1056
```



LINE 1053

low SEVERITY

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

Source File

- Lobby.sol

```
function calculateTaxFee(uint256 _amount) private view returns (uint256) {
  return _amount.mul(_taxFee).div(
  1054   10**2
  1055   );
  1056  }
  1057
```



LINE 1058

low SEVERITY

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

Source File

- Lobby.sol

```
1057
1058 function calculateLiquidityFee(uint256 _amount) private view returns (uint256) {
1059 return _amount.mul(_liquidityFee).div(
1060 10**2
1061 );
1062
```



LINE 1059

low SEVERITY

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

Source File

- Lobby.sol

```
function calculateLiquidityFee(uint256 _amount) private view returns (uint256) {
  return _amount.mul(_liquidityFee).div(
  1060    10**2
  1061   );
  1062  }
  1063
```



LINE 1198

low SEVERITY

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

Source File

- Lobby.sol

```
1197 address(this),
1198 tokenAmount,
1199 0, // slippage is unavoidable
1200 0, // slippage is unavoidable
1201 owner(),
1202
```



LINE 1199

low SEVERITY

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

Source File

- Lobby.sol

```
1198 tokenAmount,
1199 0, // slippage is unavoidable
1200 0, // slippage is unavoidable
1201 owner(),
1202 block.timestamp
1203
```



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