

Smart Contract
Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
KIKI	KIKI	Ethereum

Addresses

Contract address	0x369b77bbeeee50e6ea206dcf41ee670c47360055	
Contract deployer address	0xbb616316B47c91240604A1E17Ac20fb677873302	

Project Website

https://www.tabinekokiki.com/

Codebase

https://etherscan.io/address/0x369b77bbeeee50e6ea206dcf41ee670c47360055#code



SUMMARY

Far more than a crypto project, KIKI is a Movement. Combined with NFT, Novel, Charity, and Love, KIKI is one of its kind, a blockchain project with the love of art and charity, an art project with the spirit of blockchain.

Contract Summary

Documentation Quality

KIKI 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 KIKI 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 1093.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 114, 132, 151, 152, 169, 185, 200, 214, 228, 242, 258, 281, 308, 334, 689, 1070, 1070, 1071, 1071, 1096, 1096, 1097, 1097, 1307, 1309, 1342, 1450, 1481, 1489, 1493 and 1309.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 1.
- 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 1308, 1309, 1309, 1452, 1453, 1455, 1456, 1614 and 1615.



CONCLUSION

We have audited the KIKI project released on November 2021 to discover issues and identify potential security vulnerabilities in KIKI 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 KIKI 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 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.	ISSUE FOUND	
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.	of 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	7 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.		



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	Unused variables are allowed in Solidity and they do not pose a direct security issue.	
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	Monday Nov 29 2021 21:55:08 GMT+0000 (Coordinated Universal Time)
Finished	Tuesday Nov 30 2021 08:53:40 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	KIKI.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	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-110	OUT OF BOUNDS ARRAY ACCESS	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-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 114

low SEVERITY

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

Source File

- KIKI.sol

```
113  unchecked {
114  uint256 c = a + b;
115  if (c < a) return (false, 0);
116  return (true, c);
117  }
118</pre>
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 132

low SEVERITY

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

Source File

- KIKI.sol

```
131  if (b > a) return (false, 0);
132  return (true, a - b);
133  }
134  }
135
136
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 151

low SEVERITY

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

Source File

- KIKI.sol

```
150 if (a == 0) return (true, 0);

151 uint256 c = a * b;

152 if (c / a != b) return (false, 0);

153 return (true, c);

154 }

155
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 152

low SEVERITY

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

Source File

- KIKI.sol

```
151  uint256 c = a * b;
152  if (c / a != b) return (false, 0);
153  return (true, c);
154  }
155  }
156
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 169

low SEVERITY

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

Source File

- KIKI.sol

```
168  if (b == 0) return (false, 0);
169  return (true, a / b);
170  }
171  }
172
173
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 185

low SEVERITY

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

Source File

- KIKI.sol

```
184  if (b == 0) return (false, 0);
185   return (true, a % b);
186  }
187  }
188
189
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 200

low SEVERITY

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

Source File

- KIKI.sol

```
199  function add(uint256 a, uint256 b) internal pure returns (uint256) {
200  return a + b;
201  }
202
203  /**
204
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 214

low SEVERITY

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

Source File

- KIKI.sol

```
213 function sub(uint256 a, uint256 b) internal pure returns (uint256) {
214 return a - b;
215 }
216
217 /**
218
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 228

low SEVERITY

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

Source File

- KIKI.sol

```
227 function mul(uint256 a, uint256 b) internal pure returns (uint256) {
228 return a * b;
229 }
230
231 /**
232
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 242

low SEVERITY

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

Source File

- KIKI.sol

```
241 function div(uint256 a, uint256 b) internal pure returns (uint256) {
242 return a / b;
243 }
244
245 /**
246
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 258

low SEVERITY

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

Source File

- KIKI.sol

```
257 function mod(uint256 a, uint256 b) internal pure returns (uint256) {
258 return a % b;
259 }
260
261 /**
262
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 281

low SEVERITY

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

Source File

- KIKI.sol

```
280 require(b <= a, errorMessage);
281 return a - b;
282 }
283 }
284
285
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 308

low SEVERITY

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

Source File

- KIKI.sol

```
307  require(b > 0, errorMessage);
308  return a / b;
309  }
310  }
311
312
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 334

low SEVERITY

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

Source File

- KIKI.sol

```
333    require(b > 0, errorMessage);
334    return a % b;
335    }
336    }
337    }
338
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 689

low SEVERITY

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

Source File

- KIKI.sol

```
688  _owner = address(0);
689  _lockTime = block.timestamp + time;
690  emit OwnershipTransferred(_owner, address(0));
691  }
692
693
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1070

low SEVERITY

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

Source File

- KIKI.sol

```
1069    uint256    private constant MAX = ~uint256(0);
1070    uint256    private _tTotal = 100_000_000 * 10**18;
1071    uint256    private _rTotal = (MAX - (MAX % _tTotal));
1072    uint256    private _tFeeTotal;
1073
1074
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1070

low SEVERITY

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

Source File

- KIKI.sol

```
1069    uint256    private constant MAX = ~uint256(0);
1070    uint256    private _tTotal = 100_000_000 * 10**18;
1071    uint256    private _rTotal = (MAX - (MAX % _tTotal));
1072    uint256    private _tFeeTotal;
1073
1074
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1071

low SEVERITY

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

Source File

- KIKI.sol

```
1070     uint256     private _tTotal = 100_000_000 * 10**18;
1071     uint256     private _rTotal = (MAX - (MAX % _tTotal));
1072     uint256     private _tFeeTotal;
1073
1074     string private _name = "KIKI";
1075
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 1071

low SEVERITY

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

Source File

- KIKI.sol

```
1070     uint256     private _tTotal = 100_000_000 * 10**18;
1071     uint256     private _rTotal = (MAX - (MAX % _tTotal));
1072     uint256     private _tFeeTotal;
1073
1074     string private _name = "KIKI";
1075
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1096

low SEVERITY

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

Source File

- KIKI.sol

```
1095
1096 uint256 public _maxTxAmount = 100_000_000 * 10**18;
1097 uint256 private numTokensSellToAddToLiquidity = 300_000 * 10**18;
1098
1099 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
1100
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1096

low SEVERITY

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

Source File

- KIKI.sol

```
1095
1096 uint256 public _maxTxAmount = 100_000_000 * 10**18;
1097 uint256 private numTokensSellToAddToLiquidity = 300_000 * 10**18;
1098
1099 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
1100
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1097

low SEVERITY

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

Source File

- KIKI.sol

```
uint256 public _maxTxAmount = 100_000_000 * 10**18;
uint256 private numTokensSellToAddToLiquidity = 300_000 * 10**18;

1098
1099    event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
1100    event SwapAndLiquifyEnabledUpdated(bool enabled);

1101
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1097

low SEVERITY

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

Source File

- KIKI.sol

```
uint256 public _maxTxAmount = 100_000_000 * 10**18;
uint256 private numTokensSellToAddToLiquidity = 300_000 * 10**18;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
event SwapAndLiquifyEnabledUpdated(bool enabled);

1101
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1307

low SEVERITY

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

Source File

- KIKI.sol

```
1306  require(_isExcluded[account], "Account is already included");
1307  for (uint256 i = 0; i < _excluded.length; i++) {
1308   if (_excluded[i] == account) {
1309    _excluded[i] = _excluded[_excluded.length - 1];
1310   _tOwned[account] = 0;
1311</pre>
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1309

low SEVERITY

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

Source File

- KIKI.sol

```
1308  if (_excluded[i] == account) {
1309    _excluded[i] = _excluded[_excluded.length - 1];
1310    _tOwned[account] = 0;
1311    _isExcluded[account] = false;
1312    _excluded.pop();
1313
```



LINE 1342

low SEVERITY

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

Source File

- KIKI.sol



LINE 1450

low SEVERITY

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

Source File

- KIKI.sol



LINE 1481

low SEVERITY

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

Source File

- KIKI.sol

```
function calculateTaxFee(uint256 _amount) private view returns (uint256) {
  return _amount.mul(_taxFee).div(10**2);
  }
  1482  }
  1483
  function calculateLiquidityFee(uint256 _amount)
  1485
```



LINE 1489

low SEVERITY

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

Source File

- KIKI.sol

```
1488 {
1489 return _amount.mul(_liquidityFee).div(10**2);
1490 }
1491
1492 function calculateBurnFee(uint256 _amount) private view returns (uint256) {
1493
```



LINE 1493

low SEVERITY

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

Source File

- KIKI.sol

```
function calculateBurnFee(uint256 _amount) private view returns (uint256) {
  return _amount.mul(_burnFee).div(10**2);
  }
  1494  }
  1495
  function removeAllFee() private {
  1497
```



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

LINE 1309

low SEVERITY

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

Source File

- KIKI.sol

```
1308  if (_excluded[i] == account) {
1309    _excluded[i] = _excluded[_excluded.length - 1];
1310    _tOwned[account] = 0;
1311    _isExcluded[account] = false;
1312    _excluded.pop();
1313
```



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 1

low SEVERITY

The current pragma Solidity directive is ""^0.8.5"". 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

- KIKI.sol

```
pragma solidity ^0.8.5;

// SPDX-License-Identifier: Unlicensed

Journal of the pragma solidity ^0.8.5;

Pragma soli
```



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 1093

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

- KIKI.sol

```
1092
1093 bool inSwapAndLiquify;
1094 bool public swapAndLiquifyEnabled = true;
1095
1096 uint256 public _maxTxAmount = 100_000_000 * 10**18;
1097
```



LINE 1308

low SEVERITY

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

Source File

- KIKI.sol



LINE 1309

low SEVERITY

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

Source File

- KIKI.sol

```
1308  if (_excluded[i] == account) {
1309    _excluded[i] = _excluded[_excluded.length - 1];
1310    _tOwned[account] = 0;
1311    _isExcluded[account] = false;
1312    _excluded.pop();
1313
```



LINE 1309

low SEVERITY

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

Source File

- KIKI.sol

```
1308  if (_excluded[i] == account) {
1309    _excluded[i] = _excluded[_excluded.length - 1];
1310    _tOwned[account] = 0;
1311    _isExcluded[account] = false;
1312    _excluded.pop();
1313
```



LINE 1452

low SEVERITY

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

Source File

- KIKI.sol

```
1451 if (
1452    _rOwned[_excluded[i]] > rSupply ||
1453    _tOwned[_excluded[i]] > tSupply
1454 ) return (_rTotal, _tTotal);
1455    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1456
```



LINE 1453

low SEVERITY

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

Source File

- KIKI.sol

```
1452 _rOwned[_excluded[i]] > rSupply ||
1453 _tOwned[_excluded[i]] > tSupply
1454 ) return (_rTotal, _tTotal);
1455 rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1456 tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1457
```



LINE 1455

low SEVERITY

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

Source File

- KIKI.sol

```
1454  ) return (_rTotal, _tTotal);
1455  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1456  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1457  }
1458  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1459</pre>
```



LINE 1456

low SEVERITY

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

Source File

- KIKI.sol

```
1455  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1456  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1457  }
1458  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1459  return (rSupply, tSupply);
1460</pre>
```



LINE 1614

low SEVERITY

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

Source File

- KIKI.sol

```
1613  address[] memory path = new address[](2);
1614  path[0] = address(this);
1615  path[1] = uniswapV2Router.WETH();
1616
1617  _approve(address(this), address(uniswapV2Router), tokenAmount);
1618
```



LINE 1615

low SEVERITY

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

Source File

- KIKI.sol

```
1614 path[0] = address(this);
1615 path[1] = uniswapV2Router.WETH();
1616
1617 _approve(address(this), address(uniswapV2Router), tokenAmount);
1618
1619
```



DISCLAIMER

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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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ABOUT US

Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.