

кікі Smart Contract Audit Report



30 Nov 2021



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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
КІКІ	КІКІ	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.	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.	PASS
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.	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	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
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.	PASS



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.	PASS
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.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	PASS
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.	PASS
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.	



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
000 101			
500-101	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
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
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged

LINE 114

Iow 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>
```


LINE 132

Iow 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
```


LINE 151

Iow 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
```


LINE 152

Iow 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
```


LINE 169

Iow 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
```


LINE 185

Iow 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

Iow 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

Iow 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

Iow 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

Iow 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
```


LINE 258

Iow 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
```


LINE 281

Iow 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</pre>
```


LINE 308

Iow 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
```


LINE 334

Iow 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
```


LINE 689

Iow 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
```


LINE 1070

Iow 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
```


LINE 1070

Iow 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
```


LINE 1071

Iow 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
```


LINE 1071

Iow 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
```


LINE 1096

Iow SEVERITY

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

Source File

- KIKI.sol

Locations

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

LINE 1096

Iow SEVERITY

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

Source File

- KIKI.sol

Locations

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

LINE 1097

Iow SEVERITY

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

Source File

- KIKI.sol

Locations

1096 uint256 public _maxTxAmount = 100_000_000 * 10**18; 1097 uint256 private numTokensSellToAddToLiquidity = 300_000 * 10**18; 1098 1099 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap); 1100 event SwapAndLiquifyEnabledUpdated(bool enabled); 1101

LINE 1097

Iow SEVERITY

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

Source File

- KIKI.sol

Locations

1096 uint256 public _maxTxAmount = 100_000_000 * 10**18; 1097 uint256 private numTokensSellToAddToLiquidity = 300_000 * 10**18; 1098 1099 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap); 1100 event SwapAndLiquifyEnabledUpdated(bool enabled); 1101

LINE 1307

Iow 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
```


LINE 1309

Iow 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 _t0wned[account] = 0;
1311 _isExcluded[account] = false;
1312 _excluded.pop();
1313
```


LINE 1342

Iow SEVERITY

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

Source File

- KIKI.sol

```
1341 function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner {
1342 __maxTxAmount = _tTotal.mul(maxTxPercent).div(10**2);
1343 }
1344
1345 function setMarketingWallet(address payable marketingWallet)
1346
```


LINE 1450

Iow SEVERITY

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

Source File

- KIKI.sol

```
1449 uint256 tSupply = _tTotal;
1450 for (uint256 i = 0; i < _excluded.length; i++) {
1451 if (
1452 _rOwned[_excluded[i]] > rSupply ||
1453 _tOwned[_excluded[i]] > tSupply
1454
```


LINE 1481

Iow SEVERITY

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

Source File

- KIKI.sol

```
1480 function calculateTaxFee(uint256 _amount) private view returns (uint256) {
1481 return _amount.mul(_taxFee).div(10**2);
1482 }
1483
1484 function calculateLiquidityFee(uint256 _amount)
1485
```


LINE 1489

Iow 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

Iow SEVERITY

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

Source File

- KIKI.sol

```
1492 function calculateBurnFee(uint256 _amount) private view returns (uint256) {
1493 return _amount.mul(_burnFee).div(10**2);
1494 }
1495
1496 function removeAllFee() private {
1497
```


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

LINE 1309

Iow 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 _t0wned[account] = 0;
1311 _isExcluded[account] = false;
1312 _excluded.pop();
1313
```


SWC-103 | A FLOATING PRAGMA IS SET.

LINE 1

Iow 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

Locations

0
1 pragma solidity ^0.8.5;
2
3 // SPDX-License-Identifier: Unlicensed
4
5

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 1093

Iow 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

Iow SEVERITY

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

Source File

- KIKI.sol

```
1307 for (uint256 i = 0; i < _excluded.length; i++) {
1308 if (_excluded[i] == account) {
1309 _excluded[i] = _excluded[_excluded.length - 1];
1310 _t0wned[account] = 0;
1311 _isExcluded[account] = false;
1312</pre>
```


LINE 1309

Iow 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 _t0wned[account] = 0;
1311 _isExcluded[account] = false;
1312 _excluded.pop();
1313
```


LINE 1309

Iow 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 _t0wned[account] = 0;
1311 _isExcluded[account] = false;
1312 _excluded.pop();
1313
```


LINE 1452

Iow 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

Iow 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

Iow 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
```


LINE 1456

Iow 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
```


LINE 1614

Iow 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

Iow 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
```


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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.