

# BUY BACK Smart Contract Audit Report



28 Jan 2023



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# AUDITED DETAILS

### Audited Project

Project name	Token ticker	Blockchain	
BUY BACK	\$BB	Ethereum	

### Addresses

Contract address	0x5e8017b3cf82d338703ebb7c8a037dbbd5b2a396
Contract deployer address	0xBd55B07Cc0F8aD4088D3443182b8b00Af2225253

### Project Website

https://buybackwallet.com/

### Codebase

https://etherscan.io/address/0x5e8017b3cf82d338703ebb7c8a037dbbd5b2a396#code



# SUMMARY

BBB is a token to counter all sells . 200 dollar sell will be countered by 201 dollar buy. All info on website.

### Contract Summary

#### **Documentation Quality**

BUY BACK 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 BUY BACK with the discovery of several low issues.

#### Test Coverage

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

### Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 203, 214, 226, 249, 251, 266, 267, 472, 480, 488, 496, 512, 526, 541, 542, 555, 567, 576, 584, 592, 600, 608, 622, 637, 652, 807, 807, 808, 808, 809, 809, 810, 810, 861, 861, 888, 915, 920, 927, 932, 938, 943, 973 and 978.
- 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 1001 and 1002.



# CONCLUSION

We have audited the BUY BACK project released on January 2023 to discover issues and identify potential security vulnerabilities in BUY BACKProject. 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 BUY BACK 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, and out of bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value.



# AUDIT RESULT

Article	Category	Description	Result	
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.		
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	PASS	
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.	it 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			
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	tions 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.	PASS
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.	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	9 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/.	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.	PASS
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	32 Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133		PASS
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	
Unencrypted Private Data	SWC-136	36 It is a common misconception that private type variables cannot be read.	



# **SMART CONTRACT ANALYSIS**

Started	Friday Jan 27 2023 04:45:28 GMT+0000 (Coordinated Universal Time)		
Finished	Saturday Jan 28 2023 07:10:38 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	BB.sol		

### Detected Issues

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



SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	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-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged





**LINE 203** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
202 unchecked {
203 _approve(sender, _msgSender(), currentAllowance - amount);
204 }
205
206 return true;
207
```



**LINE 214** 

### **Iow SEVERITY**

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

#### Source File

- BB.sol

```
213 function increaseAllowance(address spender, uint256 addedValue) public virtual
returns (bool) {
214 __approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
215 return true;
216 }
217
218
```



**LINE 226** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
225 unchecked {
226 _approve(_msgSender(), spender, currentAllowance - subtractedValue);
227 }
228
229 return true;
230
```



**LINE 249** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
248 unchecked {
249 _balances[sender] = senderBalance - amount;
250 }
251 _balances[recipient] += amount;
252
253
```



**LINE 251** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

### Locations

250 }
251 \_balances[recipient] += amount;
252
253 emit Transfer(sender, recipient, amount);
254
255



LINE 266

### **Iow SEVERITY**

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

### Source File

- BB.sol

### Locations

265 266 \_totalSupply += amount; 267 \_balances[account] += amount; 268 emit Transfer(address(0), account, amount); 269 270



LINE 267

### **Iow SEVERITY**

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

#### Source File

- BB.sol

### Locations

266 \_\_totalSupply += amount; 267 \_\_balances[account] += amount; 268 emit Transfer(address(0), account, amount); 269 270 \_\_afterTokenTransfer(address(0), account, amount); 271



LINE 472

### **Iow SEVERITY**

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

#### Source File

- BB.sol

```
471 function mul(int256 a, int256 b) internal pure returns (int256) {
472 return a * b;
473 }
474
475 /**
476
```



**LINE 480** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
479 function div(int256 a, int256 b) internal pure returns (int256) {
480 return a / b;
481 }
482
483 /**
484
```



**LINE 488** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
487 function sub(int256 a, int256 b) internal pure returns (int256) {
488 return a - b;
489 }
490
491 /**
492
```



**LINE 496** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
495 function add(int256 a, int256 b) internal pure returns (int256) {
496 return a + b;
497 }
498 }
499
500
```



LINE 512

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
511 unchecked {
512 uint256 c = a + b;
513 if (c < a) return (false, 0);
514 return (true, c);
515 }
516</pre>
```



**LINE 526** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
525 if (b > a) return (false, 0);
526 return (true, a - b);
527 }
528 }
529
530
```



**LINE 541** 

### **Iow SEVERITY**

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

#### Source File

- BB.sol

```
540 if (a == 0) return (true, 0);
541 uint256 c = a * b;
542 if (c / a != b) return (false, 0);
543 return (true, c);
544 }
545
```



LINE 542

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
541 uint256 c = a * b;
542 if (c / a != b) return (false, 0);
543 return (true, c);
544 }
545 }
546
```



LINE 555

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
554 if (b == 0) return (false, 0);
555 return (true, a / b);
556 }
557 }
558
559
```



LINE 567

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
566 if (b == 0) return (false, 0);
567 return (true, a % b);
568 }
569 }
570
571
```



**LINE 576** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
575 function add(uint256 a, uint256 b) internal pure returns (uint256) {
576 return a + b;
577 }
578
579 /**
580
```



**LINE 584** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
583 function sub(uint256 a, uint256 b) internal pure returns (uint256) {
584 return a - b;
585 }
586
587 /**
588
```



## SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 592

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
591 function mul(uint256 a, uint256 b) internal pure returns (uint256) {
592 return a * b;
593 }
594
595 /**
596
```



**LINE 600** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
599 function div(uint256 a, uint256 b) internal pure returns (uint256) {
600 return a / b;
601 }
602
603 /**
604
```



**LINE 608** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
607 function mod(uint256 a, uint256 b) internal pure returns (uint256) {
608 return a % b;
609 }
610
611 /**
612
```



LINE 622

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
621 require(b <= a, errorMessage);
622 return a - b;
623 }
624 }
625
626</pre>
```



**LINE 637** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
636 require(b > 0, errorMessage);
637 return a / b;
638 }
639 }
640
641
```



**LINE 652** 

### **Iow SEVERITY**

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

### Source File

- BB.sol

```
651 require(b > 0, errorMessage);
652 return a % b;
653 }
654 }
655 }
656
```



**LINE 807** 

# **Iow SEVERITY**

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

#### Source File

- BB.sol

```
806 uint256 public liquidityTransferFee = 8;
807 uint256 public maxBuyTransactionAmount = 220000 * (10**18);
808 uint256 public maxSellTransactionAmount = 220000 * (10**18);
809 uint256 public swapTokensAtAmount = 4000 * (10**18);
810 uint256 public maxWalletToken = 220000 * (10**18);
811
```



**LINE 807** 

# **Iow SEVERITY**

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

#### Source File

- BB.sol

```
806 uint256 public liquidityTransferFee = 8;
807 uint256 public maxBuyTransactionAmount = 220000 * (10**18);
808 uint256 public maxSellTransactionAmount = 220000 * (10**18);
809 uint256 public swapTokensAtAmount = 4000 * (10**18);
810 uint256 public maxWalletToken = 220000 * (10**18);
811
```



**LINE 808** 

### **Iow SEVERITY**

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

#### Source File

- BB.sol

```
807 uint256 public maxBuyTransactionAmount = 220000 * (10**18);
808 uint256 public maxSellTransactionAmount = 220000 * (10**18);
809 uint256 public swapTokensAtAmount = 4000 * (10**18);
810 uint256 public maxWalletToken = 220000 * (10**18);
811
812
```



**LINE 808** 

### **Iow SEVERITY**

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

#### Source File

- BB.sol

```
807 uint256 public maxBuyTransactionAmount = 220000 * (10**18);
808 uint256 public maxSellTransactionAmount = 220000 * (10**18);
809 uint256 public swapTokensAtAmount = 4000 * (10**18);
810 uint256 public maxWalletToken = 220000 * (10**18);
811
812
```



**LINE 809** 

### **Iow SEVERITY**

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

#### Source File

- BB.sol

```
808 uint256 public maxSellTransactionAmount = 220000 * (10**18);
809 uint256 public swapTokensAtAmount = 4000 * (10**18);
810 uint256 public maxWalletToken = 220000 * (10**18);
811
812 address payable public buybackWallet =
payable(0xfebB0033c348ce91C19d7B075134ec7A7e044e1b);
813
```



**LINE 809** 

### **Iow SEVERITY**

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

#### Source File

- BB.sol

```
808 uint256 public maxSellTransactionAmount = 220000 * (10**18);
809 uint256 public swapTokensAtAmount = 4000 * (10**18);
810 uint256 public maxWalletToken = 220000 * (10**18);
811
812 address payable public buybackWallet =
payable(0xfebB0033c348ce91C19d7B075134ec7A7e044e1b);
813
```



LINE 810

### **Iow SEVERITY**

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

#### Source File

- BB.sol

#### Locations



LINE 810

### **Iow SEVERITY**

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

#### Source File

- BB.sol

#### Locations



LINE 861

# **Iow SEVERITY**

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

### Source File

- BB.sol

```
860 */
861 _createTotalSupply(owner(), 22000000 * (10**18));
862 }
863
864 function setLaunchStatus(bool launched_) public onlyOwner {
865
```



LINE 861

# **Iow SEVERITY**

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

#### Source File

- BB.sol

```
860 */
861 _createTotalSupply(owner(), 22000000 * (10**18));
862 }
863
864 function setLaunchStatus(bool launched_) public onlyOwner {
865
```



**LINE 888** 

# **Iow SEVERITY**

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

### Source File

- BB.sol

```
887 uint256 contractBalanceRecepient = balanceOf(to);
888 require(contractBalanceRecepient + amount <= maxWalletToken, "Exceeds maximum
wallet token amount.");
889 }
890
891 if(!_isExcludedFromFees[from] && !_isExcludedFromFees[to] && from==uniswapV2Pair){
892
```



**LINE 915** 

# **Iow SEVERITY**

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

#### Source File

- BB.sol

```
914 buyBackShare = amount.mul(devBuyFee).div(100);
915 buyBackTokens += buyBackShare;
916 super._transfer(from, address(this), buyBackShare);
917 }
918 if(liquidityBuyFee > 0) {
919
```



**LINE 920** 

# **Iow SEVERITY**

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

#### Source File

- BB.sol

```
919 liquidityShare = amount.mul(liquidityBuyFee).div(100);
920 liquidityTokens += liquidityShare;
921 super._transfer(from, address(this), liquidityShare);
922 }
923 }
924
```



**LINE 927** 

# **Iow SEVERITY**

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

#### Source File

- BB.sol

```
926 buyBackShare = amount.mul(devSellFee).div(100);
927 buyBackTokens += buyBackShare;
928 super._transfer(from, address(this), buyBackShare);
929 }
930 if(liquiditySellFee > 0) {
931
```



LINE 932

# **Iow SEVERITY**

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

#### Source File

- BB.sol

```
931 liquidityShare = amount.mul(liquiditySellFee).div(100);
932 liquidityTokens += liquidityShare;
933 super._transfer(from, address(this), liquidityShare);
934 }
935 } else { //Transfer
936
```



**LINE 938** 

# **Iow SEVERITY**

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

#### Source File

- BB.sol

```
937 buyBackShare = amount.mul(devTransferFee).div(100);
938 buyBackTokens += buyBackShare;
939 super._transfer(from, address(this), buyBackShare);
940 }
941 if(liquidityTransferFee > 0) {
942
```



**LINE 943** 

# **Iow SEVERITY**

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

#### Source File

- BB.sol

```
942 liquidityShare = amount.mul(liquidityTransferFee).div(100);
943 liquidityTokens += liquidityShare;
944 super._transfer(from, address(this), liquidityShare);
945 }
946 }
947
```



**LINE 973** 

# **Iow SEVERITY**

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

#### Source File

- BB.sol

```
972 emit SwapAndLiquify(half, newBalance, otherHalf);
973 liquidityTokens -= swapTokensAtAmount;
974 }
975
976 if(buyBackTokens >= swapTokensAtAmount && contractTokenBalance >=
swapTokensAtAmount) {
977
```



**LINE 978** 

# **Iow SEVERITY**

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

### Source File

- BB.sol

### Locations

977 swapTokensForEth(swapTokensAtAmount, buybackWallet); 978 buyBackTokens -= swapTokensAtAmount; 979 } 980 981 } 982



# SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1001

# **Iow SEVERITY**

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

### Source File

- BB.sol

```
1000 address[] memory path = new address[](2);
1001 path[0] = address(this);
1002 path[1] = uniswapV2Router.WETH();
1003
1004 if(allowance(address(this), address(uniswapV2Router)) < tokenAmount) {
1005
```



# SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1002

# **Iow SEVERITY**

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

### Source File

- BB.sol

```
1001 path[0] = address(this);
1002 path[1] = uniswapV2Router.WETH();
1003
1004 if(allowance(address(this), address(uniswapV2Router)) < tokenAmount) {
1005 _approve(address(this), address(uniswapV2Router), ~uint256(0));
1006
```



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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.