

Marvin Inu
Smart Contract
Audit Report





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AUDITED DETAILS

Audited Project

| Project name | Token ticker | Blockchain | |
|--------------|--------------|---------------------|--|
| Marvin Inu | MARVIN | Binance Smart Chain | |

Addresses

| Contract address | 0x71ab195498b6dc1656abb4d9233f83ae5f19495b |
|---------------------------|--|
| Contract deployer address | 0xA0b8ECa5Dc3af66A0dAA478d3006731e32258131 |

Project Website

https://marvin-ecosystem.com/

Codebase

https://bscscan.com/address/0x71ab195498b6dc1656abb4d9233f83ae5f19495b#code



SUMMARY

Marvin is here to stay, not only as a tribute to Elon's dog, but to bring user a full suite of treats, including his Launchpad, Staking, Farming, and more. Marvin INU has recognized a pattern of inadequate and unoriginal meme tokens, and aims to conquer them all!

Contract Summary

Documentation Quality

Marvin Inu provides a very good documentation with standard of solidity base code.

• The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

• Standard solidity basecode and rules are already followed by Marvin Inu 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 481, 513, 536, 537, 572, 608, 674, 678, 690, 697, 706, 965, 965, 968, 969, 969, 970, 970, 975, 975, 980, 980, 1026, 1026, 1027, 1027, 1033, 1033, 1033, 1034, 1034, 1038, 1038, 1038, 1039, 1039, 1055, 1055, 1063, 1063, 1137, 1145, 1171, 1188, 1188, 1188, 1189, 1189, 1189, 1190, 1190, 1190, 1195, 1195, 1195, 1196, 1196, 1196, 1197, 1197, 1204, 1249, 1249, 1254, 1255, 1259, 1259, 1259, 1272, 1272 and 1321.
- 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 1214 and 1215.
- SWC-115 | tx.origin should not be used for authorization, use msg.sender instead on lines 1129 and 1130.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 1129 and 1130.



CONCLUSION

We have audited the Marvin Inu project released on January 2023 to discover issues and identify potential security vulnerabilities in Marvin Inu Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides satisfactory results with low-risk issues.

The Marvin Inu smart contract code issues 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 Use of "tx.origin" as a part of authorization control, Potential use of "block.number" as a source of randomness, and out-of-bounds array access in which the index access expression can cause an exception in case of the use of an invalid array index value. The tx.origin environment variable has been found to influence a control flow decision. Note that using "tx.origin" as a security control might cause a situation where a user inadvertently authorizes a smart contract to act on their behalf. It is recommended to use "msg.sender" instead. The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number, and timestamp are predictable and can be manipulated by a malicious miner. Also, keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness, and be aware that using these variables introduces a certain level of trust into miners.



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. | PASS |
| 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. | 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. | PASS |
|--|-------------------------------|---|----------------|
| Race Conditions | SWC-114 | Race Conditions and Transactions Order Dependency should not be possible. | PASS |
| Authorization through tx.origin | SWC-115 | tx.origin should not be used for authorization. | ISSUE FOUND |
| 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 | State variables should not be shadowed. | PASS |
| Weak Sources of Randomness | SWC-120 | Random values should never be generated from Chain Attributes or be predictable. | ISSUE FOUND |
| 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 character to force RTL text rendering and confuse users as | | PASS |
| Unused variables | SWC-131 SWC-135 | Unused variables are allowed in Solidity and they do not pose a direct security issue. | PASS |
| Unexpected Ether balance | SWC-132 | Contracts can behave erroneously when they strictly assume a specific Ether balance. | |
| Hash Collisions Variable | SWC-133 | Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision. | |
| Hardcoded gas amount | SWC-134 | The transfer() and send() functions forward a fixed amount of 2300 gas. | PASS |
| Unencrypted Private Data | SWC-136 | It is a common misconception that private type variables cannot be read. | PASS |



SMART CONTRACT ANALYSIS

| Started | Thursday Jan 20 2022 08:46:53 GMT+0000 (Coordinated Universal Time) | | |
|------------------|---|--|--|
| Finished | Friday Jan 21 2022 16:59:47 GMT+0000 (Coordinated Universal Time) | | |
| Mode | Standard | | |
| Main Source File | MarvinInu.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-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-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONT | ROL. | low | acknowledged |
| SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONT | ROL. | low | acknowledged |
| SWC-110 | OUT OF BOUNDS ARRAY ACCESS | | low | acknowledged |
| SWC-110 | OUT OF BOUNDS ARRAY ACCESS | | low | acknowledged |
| SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS. | | low | acknowledged |
| SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS. | | low | acknowledged |



LINE 481

low SEVERITY

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

Source File

- MarvinInu.sol

```
function add(uint256 a, uint256 b) internal pure returns (uint256) {
  uint256 c = a + b;
  require(c >= a, "SafeMath: addition overflow");
  return c;
  return c;
}
```



LINE 513

low SEVERITY

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

Source File

- MarvinInu.sol

```
512 require(b <= a, errorMessage);
513  uint256 c = a - b;
514
515 return c;
516 }
517</pre>
```



LINE 536

low SEVERITY

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

Source File

- MarvinInu.sol

```
535
536    uint256    c = a * b;
537    require(c / a == b, "SafeMath: multiplication overflow");
538
539    return c;
540
```



LINE 537

low SEVERITY

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

Source File

- MarvinInu.sol

```
536    uint256    c = a * b;
537    require(c / a == b, "SafeMath: multiplication overflow");
538
539    return c;
540    }
541
```



LINE 572

low SEVERITY

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

Source File

- MarvinInu.sol

```
571    require(b > 0, errorMessage);
572    uint256 c = a / b;
573    // assert(a == b * c + a % b); // There is no case in which this doesn't hold
574
575    return c;
576
```



LINE 608

low SEVERITY

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

Source File

- MarvinInu.sol

```
607  require(b != 0, errorMessage);
608  return a % b;
609  }
610  }
611
612
```



LINE 674

low SEVERITY

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

Source File

- MarvinInu.sol

```
function mul(int256 a, int256 b) internal pure returns (int256) {
int256 c = a * b;

675

676  // Detect overflow when multiplying MIN_INT256 with -1

677  require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));

678
```



LINE 678

low SEVERITY

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

Source File

- MarvinInu.sol

```
677 require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
678 require((b == 0) || (c / b == a));
679 return c;
680 }
681
682
```



LINE 690

low SEVERITY

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

Source File

- MarvinInu.sol

```
689 // Solidity already throws when dividing by 0.
690 return a / b;
691 }
692
693 /**
694
```



LINE 697

low SEVERITY

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

Source File

- MarvinInu.sol

```
696  function sub(int256 a, int256 b) internal pure returns (int256) {
697  int256 c = a - b;
698  require((b >= 0 && c <= a) || (b < 0 && c > a));
699  return c;
700  }
701
```



LINE 706

low SEVERITY

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

Source File

- MarvinInu.sol

```
705 function add(int256 a, int256 b) internal pure returns (int256) {
706 int256 c = a + b;
707 require((b >= 0 && c >= a) || (b < 0 && c < a));
708 return c;
709 }
710
```



LINE 965

low SEVERITY

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

Source File

- MarvinInu.sol

```
964
965 uint256 totalSupply = 1 * 1e12 * 1e18;
966
967 //maxTransactionAmount = totalSupply * 50 / 1000; // 0.50% maxTransactionAmountTxn
968 maxTransactionAmount = 50000000000 * 1e18;
969
```



LINE 965

low SEVERITY

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

Source File

- MarvinInu.sol

```
964
965 uint256 totalSupply = 1 * 1e12 * 1e18;
966
967 //maxTransactionAmount = totalSupply * 50 / 1000; // 0.50% maxTransactionAmountTxn
968 maxTransactionAmount = 50000000000 * 1e18;
969
```



LINE 968

low SEVERITY

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

Source File

- MarvinInu.sol

```
//maxTransactionAmount = totalSupply * 50 / 1000; // 0.50% maxTransactionAmountTxn
maxTransactionAmount = 50000000000 * 1e18;
maxWallet = totalSupply * 15 / 1000; // 1.5% maxWallet
swapTokensAtAmount = totalSupply * 15 / 10000; // 0.15% swap wallet
971
972
```



LINE 969

low SEVERITY

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

Source File

- MarvinInu.sol

```
968 maxTransactionAmount = 5000000000 * 1e18;
969 maxWallet = totalSupply * 15 / 1000; // 1.5% maxWallet
970 swapTokensAtAmount = totalSupply * 15 / 10000; // 0.15% swap wallet
971
972 buyMarketingFee = _buyMarketingFee;
973
```



LINE 969

low SEVERITY

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

Source File

- MarvinInu.sol

```
968 maxTransactionAmount = 5000000000 * 1e18;
969 maxWallet = totalSupply * 15 / 1000; // 1.5% maxWallet
970 swapTokensAtAmount = totalSupply * 15 / 10000; // 0.15% swap wallet
971
972 buyMarketingFee = _buyMarketingFee;
973
```



LINE 970

low SEVERITY

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

Source File

- MarvinInu.sol

```
969 maxWallet = totalSupply * 15 / 1000; // 1.5% maxWallet
970 swapTokensAtAmount = totalSupply * 15 / 10000; // 0.15% swap wallet
971
972 buyMarketingFee = _buyMarketingFee;
973 buyLiquidityFee = _buyLiquidityFee;
974
```



LINE 970

low SEVERITY

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

Source File

- MarvinInu.sol

```
969 maxWallet = totalSupply * 15 / 1000; // 1.5% maxWallet
970 swapTokensAtAmount = totalSupply * 15 / 10000; // 0.15% swap wallet
971
972 buyMarketingFee = _buyMarketingFee;
973 buyLiquidityFee = _buyLiquidityFee;
974
```



LINE 975

low SEVERITY

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

Source File

- MarvinInu.sol

```
974 buyDevFee = _buyDevFee;
975 buyTotalFees = buyMarketingFee + buyLiquidityFee + buyDevFee;
976
977 sellMarketingFee = _sellMarketingFee;
978 sellLiquidityFee = _sellLiquidityFee;
979
```



LINE 975

low SEVERITY

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

Source File

- MarvinInu.sol

```
974 buyDevFee = _buyDevFee;
975 buyTotalFees = buyMarketingFee + buyLiquidityFee + buyDevFee;
976
977 sellMarketingFee = _sellMarketingFee;
978 sellLiquidityFee = _sellLiquidityFee;
979
```



LINE 980

low SEVERITY

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

Source File

- MarvinInu.sol

```
979 sellDevFee = _sellDevFee;
980 sellTotalFees = sellMarketingFee + sellLiquidityFee + sellDevFee;
981
982 marketingWallet = address(owner()); // set as marketing wallet
983 devWallet = address(owner()); // set as dev wallet
984
```



LINE 980

low SEVERITY

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

Source File

- MarvinInu.sol

```
979 sellDevFee = _sellDevFee;
980 sellTotalFees = sellMarketingFee + sellLiquidityFee + sellDevFee;
981
982 marketingWallet = address(owner()); // set as marketing wallet
983 devWallet = address(owner()); // set as dev wallet
984
```



LINE 1026

low SEVERITY

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

Source File

- MarvinInu.sol

```
function updateSwapTokensAtAmount(uint256 newAmount) external onlyOwner returns
(bool){

1026    require(newAmount >= totalSupply() * 1 / 100000, "Swap amount cannot be lower than
0.001% total supply.");

1027    require(newAmount <= totalSupply() * 5 / 1000, "Swap amount cannot be higher than
0.5% total supply.");

1028    swapTokensAtAmount = newAmount;
1029    return true;
1030</pre>
```



LINE 1026

low SEVERITY

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

Source File

- MarvinInu.sol

```
1025  function updateSwapTokensAtAmount(uint256 newAmount) external onlyOwner returns
(bool){
1026  require(newAmount >= totalSupply() * 1 / 100000, "Swap amount cannot be lower than
0.001% total supply.");
1027  require(newAmount <= totalSupply() * 5 / 1000, "Swap amount cannot be higher than
0.5% total supply.");
1028  swapTokensAtAmount = newAmount;
1029  return true;
1030</pre>
```



LINE 1027

low SEVERITY

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

Source File

- MarvinInu.sol

```
1026  require(newAmount >= totalSupply() * 1 / 100000, "Swap amount cannot be lower than
0.001% total supply.");
1027  require(newAmount <= totalSupply() * 5 / 1000, "Swap amount cannot be higher than
0.5% total supply.");
1028  swapTokensAtAmount = newAmount;
1029  return true;
1030  }
1031</pre>
```



LINE 1027

low SEVERITY

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

Source File

- MarvinInu.sol

```
1026  require(newAmount >= totalSupply() * 1 / 100000, "Swap amount cannot be lower than
0.001% total supply.");
1027  require(newAmount <= totalSupply() * 5 / 1000, "Swap amount cannot be higher than
0.5% total supply.");
1028  swapTokensAtAmount = newAmount;
1029  return true;
1030  }
1031</pre>
```



LINE 1033

low SEVERITY

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

Source File

- MarvinInu.sol

```
function updateMaxTxnAmount(uint256 newNum) external onlyOwner {
    require(newNum >= (totalSupply() * 1 / 1000)/le18, "Cannot set
    maxTransactionAmount lower than 0.1%");
    1034    maxTransactionAmount = newNum * (10**18);
    1035    }
    1036
    1037
```



LINE 1033

low SEVERITY

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

Source File

- MarvinInu.sol

```
function updateMaxTxnAmount(uint256 newNum) external onlyOwner {
    require(newNum >= (totalSupply() * 1 / 1000)/le18, "Cannot set
    maxTransactionAmount lower than 0.1%");
    1034    maxTransactionAmount = newNum * (10**18);
    1035    }
    1036
    1037
```



LINE 1033

low SEVERITY

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

Source File

- MarvinInu.sol

```
function updateMaxTxnAmount(uint256 newNum) external onlyOwner {
    require(newNum >= (totalSupply() * 1 / 1000)/le18, "Cannot set
    maxTransactionAmount lower than 0.1%");
    1034    maxTransactionAmount = newNum * (10**18);
    1035    }
    1036
    1037
```



LINE 1034

low SEVERITY

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

Source File

- MarvinInu.sol

```
1033 require(newNum >= (totalSupply() * 1 / 1000)/le18, "Cannot set
maxTransactionAmount lower than 0.1%");
1034 maxTransactionAmount = newNum * (10**18);
1035 }
1036
1037 function updateMaxWalletAmount(uint256 newNum) external onlyOwner {
1038
```



LINE 1034

low SEVERITY

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

Source File

- MarvinInu.sol

```
1033 require(newNum >= (totalSupply() * 1 / 1000)/1e18, "Cannot set
maxTransactionAmount lower than 0.1%");
1034 maxTransactionAmount = newNum * (10**18);
1035 }
1036
1037 function updateMaxWalletAmount(uint256 newNum) external onlyOwner {
1038
```



LINE 1038

low SEVERITY

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

Source File

- MarvinInu.sol

```
function updateMaxWalletAmount(uint256 newNum) external onlyOwner {
  require(newNum >= (totalSupply() * 5 / 1000)/le18, "Cannot set maxWallet lower
  than 0.5%");
  maxWallet = newNum * (10**18);
  1040  }
  1041
  1042
```



LINE 1038

low SEVERITY

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

Source File

- MarvinInu.sol

```
function updateMaxWalletAmount(uint256 newNum) external onlyOwner {
  require(newNum >= (totalSupply() * 5 / 1000)/le18, "Cannot set maxWallet lower
  than 0.5%");
  maxWallet = newNum * (10**18);
  1040  }
  1041
  1042
```



LINE 1038

low SEVERITY

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

Source File

- MarvinInu.sol

```
function updateMaxWalletAmount(uint256 newNum) external onlyOwner {
  require(newNum >= (totalSupply() * 5 / 1000)/le18, "Cannot set maxWallet lower
  than 0.5%");
  maxWallet = newNum * (10**18);
  1040  }
  1041
  1042
```



LINE 1039

low SEVERITY

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

Source File

- MarvinInu.sol

```
1038  require(newNum >= (totalSupply() * 5 / 1000)/1e18, "Cannot set maxWallet lower
than 0.5%");
1039  maxWallet = newNum * (10**18);
1040  }
1041
1042  function excludeFromMaxTransaction(address updAds, bool isEx) public onlyOwner {
1043
```



LINE 1039

low SEVERITY

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

Source File

- MarvinInu.sol

```
1038  require(newNum >= (totalSupply() * 5 / 1000)/1e18, "Cannot set maxWallet lower
than 0.5%");
1039  maxWallet = newNum * (10**18);
1040  }
1041
1042  function excludeFromMaxTransaction(address updAds, bool isEx) public onlyOwner {
1043
```



LINE 1055

low SEVERITY

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

Source File

- MarvinInu.sol

```
buyDevFee = _devFee;
buyTotalFees = buyMarketingFee + buyLiquidityFee + buyDevFee;
require(buyTotalFees <= 20, "Must keep fees at 20% or less");
}
1057 }
1058
1059</pre>
```



LINE 1055

low SEVERITY

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

Source File

- MarvinInu.sol

```
buyDevFee = _devFee;
buyTotalFees = buyMarketingFee + buyLiquidityFee + buyDevFee;
require(buyTotalFees <= 20, "Must keep fees at 20% or less");
}
1057 }
1058
1059</pre>
```



LINE 1063

low SEVERITY

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

Source File

- MarvinInu.sol

```
1062  sellDevFee = _devFee;
1063  sellTotalFees = sellMarketingFee + sellLiquidityFee + sellDevFee;
1064  require(sellTotalFees <= 25, "Must keep fees at 25% or less");
1065  }
1066
1067</pre>
```



LINE 1063

low SEVERITY

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

Source File

- MarvinInu.sol

```
1062  sellDevFee = _devFee;
1063  sellTotalFees = sellMarketingFee + sellLiquidityFee + sellDevFee;
1064  require(sellTotalFees <= 25, "Must keep fees at 25% or less");
1065  }
1066
1067</pre>
```



LINE 1137

low SEVERITY

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

Source File

- MarvinInu.sol

```
1136    require(amount <= maxTransactionAmount, "Buy transfer amount exceeds the
maxTransactionAmount.");
1137    require(amount + balanceOf(to) <= maxWallet, "Max wallet exceeded");
1138    }
1139
1140    //when sell
1141</pre>
```



LINE 1145

low SEVERITY

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

Source File

- MarvinInu.sol

```
1144 else if(!_isExcludedMaxTransactionAmount[to]){
1145    require(amount + balanceOf(to) <= maxWallet, "Max wallet exceeded");
1146    }
1147    }
1148    }
1149</pre>
```



LINE 1171

low SEVERITY

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

Source File

- MarvinInu.sol

```
1170
1171 if(!swapping && automatedMarketMakerPairs[to] && lpBurnEnabled && block.timestamp
>= lastLpBurnTime + lpBurnFrequency && !_isExcludedFromFees[from]){
1172 autoBurnLiquidityPairTokens();
1173 }
1174
1175
```



LINE 1188

low SEVERITY

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

Source File

- MarvinInu.sol

```
fees = amount.mul(sellTotalFees).div(100);
tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees;
tokensForDev += fees * sellDevFee / sellTotalFees;
tokensForMarketing += fees * sellMarketingFee / sellTotalFees;

1190    tokensForMarketing += fees * sellMarketingFee / sellTotalFees;
1191  }
1192
```



LINE 1188

low SEVERITY

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

Source File

- MarvinInu.sol



LINE 1188

low SEVERITY

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

Source File

- MarvinInu.sol

```
fees = amount.mul(sellTotalFees).div(100);
tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees;
tokensForDev += fees * sellDevFee / sellTotalFees;
tokensForMarketing += fees * sellMarketingFee / sellTotalFees;

1190    tokensForMarketing += fees * sellMarketingFee / sellTotalFees;
1191  }
1192
```



LINE 1189

low SEVERITY

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

Source File

- MarvinInu.sol

```
1188  tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees;
1189  tokensForDev += fees * sellDevFee / sellTotalFees;
1190  tokensForMarketing += fees * sellMarketingFee / sellTotalFees;
1191  }
1192  // on buy
1193
```



LINE 1189

low SEVERITY

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

Source File

- MarvinInu.sol

```
1188  tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees;
1189  tokensForDev += fees * sellDevFee / sellTotalFees;
1190  tokensForMarketing += fees * sellMarketingFee / sellTotalFees;
1191  }
1192  // on buy
1193
```



LINE 1189

low SEVERITY

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

Source File

- MarvinInu.sol

```
1188  tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees;
1189  tokensForDev += fees * sellDevFee / sellTotalFees;
1190  tokensForMarketing += fees * sellMarketingFee / sellTotalFees;
1191  }
1192  // on buy
1193
```



LINE 1190

low SEVERITY

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

Source File

- MarvinInu.sol

```
tokensForDev += fees * sellDevFee / sellTotalFees;
tokensForMarketing += fees * sellMarketingFee / sellTotalFees;

1191 }
1192 // on buy
1193 else if(automatedMarketMakerPairs[from] && buyTotalFees > 0) {
1194
```



LINE 1190

low SEVERITY

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

Source File

- MarvinInu.sol

```
tokensForDev += fees * sellDevFee / sellTotalFees;
tokensForMarketing += fees * sellMarketingFee / sellTotalFees;

1191 }
1192 // on buy
1193 else if(automatedMarketMakerPairs[from] && buyTotalFees > 0) {
1194
```



LINE 1190

low SEVERITY

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

Source File

- MarvinInu.sol

```
1189  tokensForDev += fees * sellDevFee / sellTotalFees;
1190  tokensForMarketing += fees * sellMarketingFee / sellTotalFees;
1191  }
1192  // on buy
1193  else if(automatedMarketMakerPairs[from] && buyTotalFees > 0) {
1194
```



LINE 1195

low SEVERITY

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

Source File

- MarvinInu.sol

```
fees = amount.mul(buyTotalFees).div(100);

1195    tokensForLiquidity += fees * buyLiquidityFee / buyTotalFees;

1196    tokensForDev += fees * buyDevFee / buyTotalFees;

1197    tokensForMarketing += fees * buyMarketingFee / buyTotalFees;

1198  }

1199
```



LINE 1195

low SEVERITY

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

Source File

- MarvinInu.sol

```
fees = amount.mul(buyTotalFees).div(100);
tokensForLiquidity += fees * buyLiquidityFee / buyTotalFees;
tokensForDev += fees * buyDevFee / buyTotalFees;
tokensForMarketing += fees * buyMarketingFee / buyTotalFees;

1197    tokensForMarketing += fees * buyMarketingFee / buyTotalFees;
1198  }
1199
```



LINE 1195

low SEVERITY

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

Source File

- MarvinInu.sol

```
fees = amount.mul(buyTotalFees).div(100);
tokensForLiquidity += fees * buyLiquidityFee / buyTotalFees;
tokensForDev += fees * buyDevFee / buyTotalFees;
tokensForMarketing += fees * buyMarketingFee / buyTotalFees;

1197    tokensForMarketing += fees * buyMarketingFee / buyTotalFees;
1198  }
1199
```



LINE 1196

low SEVERITY

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

Source File

- MarvinInu.sol

```
tokensForLiquidity += fees * buyLiquidityFee / buyTotalFees;
tokensForDev += fees * buyDevFee / buyTotalFees;
tokensForMarketing += fees * buyMarketingFee / buyTotalFees;

1198 }
1199
1200
```



LINE 1196

low SEVERITY

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

Source File

- MarvinInu.sol

```
tokensForLiquidity += fees * buyLiquidityFee / buyTotalFees;
tokensForDev += fees * buyDevFee / buyTotalFees;
tokensForMarketing += fees * buyMarketingFee / buyTotalFees;

1198 }
1199
1200
```



LINE 1196

low SEVERITY

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

Source File

- MarvinInu.sol

```
tokensForLiquidity += fees * buyLiquidityFee / buyTotalFees;
tokensForDev += fees * buyDevFee / buyTotalFees;
tokensForMarketing += fees * buyMarketingFee / buyTotalFees;

1198 }
1199
1200
```



LINE 1197

low SEVERITY

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

Source File

- MarvinInu.sol

```
1196  tokensForDev += fees * buyDevFee / buyTotalFees;
1197  tokensForMarketing += fees * buyMarketingFee / buyTotalFees;
1198  }
1199
1200  if(fees > 0){
1201
```



LINE 1197

low SEVERITY

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

Source File

- MarvinInu.sol

```
1196  tokensForDev += fees * buyDevFee / buyTotalFees;
1197  tokensForMarketing += fees * buyMarketingFee / buyTotalFees;
1198  }
1199
1200  if(fees > 0){
1201
```



LINE 1197

low SEVERITY

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

Source File

- MarvinInu.sol

```
1196  tokensForDev += fees * buyDevFee / buyTotalFees;
1197  tokensForMarketing += fees * buyMarketingFee / buyTotalFees;
1198  }
1199
1200  if(fees > 0){
1201
```



LINE 1204

low SEVERITY

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

Source File

- MarvinInu.sol

```
1203
1204    amount -= fees;
1205    }
1206
1207    super._transfer(from, to, amount);
1208
```



LINE 1249

low SEVERITY

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

Source File

- MarvinInu.sol

```
1248  uint256 contractBalance = balanceOf(address(this));
1249  uint256 totalTokensToSwap = tokensForLiquidity + tokensForMarketing +
tokensForDev;
1250  bool success;
1251
1252  if(contractBalance == 0 || totalTokensToSwap == 0) {return;}
1253
```



LINE 1249

low SEVERITY

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

Source File

- MarvinInu.sol

```
1248  uint256 contractBalance = balanceOf(address(this));
1249  uint256 totalTokensToSwap = tokensForLiquidity + tokensForMarketing +
tokensForDev;
1250  bool success;
1251
1252  if(contractBalance == 0 || totalTokensToSwap == 0) {return;}
1253
```



LINE 1254

low SEVERITY

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

Source File

- MarvinInu.sol

```
1253
1254 if(contractBalance > swapTokensAtAmount * 20){
1255   contractBalance = swapTokensAtAmount * 20;
1256  }
1257
1258
```



LINE 1255

low SEVERITY

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

Source File

- MarvinInu.sol

```
1254 if(contractBalance > swapTokensAtAmount * 20){
1255   contractBalance = swapTokensAtAmount * 20;
1256  }
1257
1258  // Halve the amount of liquidity tokens
1259
```



LINE 1259

low SEVERITY

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

Source File

- MarvinInu.sol

```
1258  // Halve the amount of liquidity tokens
1259  uint256 liquidityTokens = contractBalance * tokensForLiquidity / totalTokensToSwap
/ 2;
1260  uint256 amountToSwapForETH = contractBalance.sub(liquidityTokens);
1261
1262  uint256 initialETHBalance = address(this).balance;
1263
```



LINE 1259

low SEVERITY

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

Source File

- MarvinInu.sol

```
1258  // Halve the amount of liquidity tokens
1259  uint256 liquidityTokens = contractBalance * tokensForLiquidity / totalTokensToSwap
/ 2;
1260  uint256 amountToSwapForETH = contractBalance.sub(liquidityTokens);
1261
1262  uint256 initialETHBalance = address(this).balance;
1263
```



LINE 1259

low SEVERITY

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

Source File

- MarvinInu.sol

```
1258  // Halve the amount of liquidity tokens
1259  uint256 liquidityTokens = contractBalance * tokensForLiquidity / totalTokensToSwap
/ 2;
1260  uint256 amountToSwapForETH = contractBalance.sub(liquidityTokens);
1261
1262  uint256 initialETHBalance = address(this).balance;
1263
```



LINE 1272

low SEVERITY

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

Source File

- MarvinInu.sol

```
1271
1272 uint256 ethForLiquidity = ethBalance - ethForMarketing - ethForDev;
1273
1274
1275 tokensForLiquidity = 0;
1276
```



LINE 1272

low SEVERITY

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

Source File

- MarvinInu.sol

```
1271
1272 uint256 ethForLiquidity = ethBalance - ethForMarketing - ethForDev;
1273
1274
1275 tokensForLiquidity = 0;
1276
```



LINE 1321

low SEVERITY

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

Source File

- MarvinInu.sol

```
1320 function manualBurnLiquidityPairTokens(uint256 percent) external onlyOwner returns
(bool){
1321 require(block.timestamp > lastManualLpBurnTime + manualBurnFrequency , "Must wait
for cooldown to finish");
1322 require(percent <= 1000, "May not nuke more than 10% of tokens in LP");
1323 lastManualLpBurnTime = block.timestamp;
1324
1325</pre>
```



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

LINE 1129

low SEVERITY

The tx.origin environment variable has been found to influence a control flow decision. Note that using "tx.origin" as a security control might cause a situation where a user inadvertently authorizes a smart contract to perform an action on their behalf. It is recommended to use "msg.sender" instead.

Source File

- MarvinInu.sol

```
1128  if (to != owner() && to != address(uniswapV2Router) && to !=
address(uniswapV2Pair)){
1129   require(_holderLastTransferTimestamp[tx.origin] < block.number, "_transfer::
Transfer Delay enabled. Only one purchase per block allowed.");
1130   _holderLastTransferTimestamp[tx.origin] = block.number;
1131  }
1132 }
1133</pre>
```



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

LINE 1130

low SEVERITY

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

Source File

- MarvinInu.sol

```
1129  require(_holderLastTransferTimestamp[tx.origin] < block.number, "_transfer::
Transfer Delay enabled. Only one purchase per block allowed.");
1130  _holderLastTransferTimestamp[tx.origin] = block.number;
1131  }
1132  }
1133
1134</pre>
```



SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1214

low SEVERITY

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

Source File

- MarvinInu.sol

```
1213  address[] memory path = new address[](2);
1214  path[0] = address(this);
1215  path[1] = uniswapV2Router.WETH();
1216
1217  _approve(address(this), address(uniswapV2Router), tokenAmount);
1218
```



SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1215

low SEVERITY

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

Source File

- MarvinInu.sol

```
1214 path[0] = address(this);
1215 path[1] = uniswapV2Router.WETH();
1216
1217 _approve(address(this), address(uniswapV2Router), tokenAmount);
1218
1219
```



SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 1129

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- MarvinInu.sol

```
1128  if (to != owner() && to != address(uniswapV2Router) && to !=
address(uniswapV2Pair)){
1129   require(_holderLastTransferTimestamp[tx.origin] < block.number, "_transfer::
Transfer Delay enabled. Only one purchase per block allowed.");
1130   _holderLastTransferTimestamp[tx.origin] = block.number;
1131  }
1132 }
1133</pre>
```



SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 1130

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- MarvinInu.sol

```
1129  require(_holderLastTransferTimestamp[tx.origin] < block.number, "_transfer::
    Transfer Delay enabled. Only one purchase per block allowed.");
1130    _holderLastTransferTimestamp[tx.origin] = block.number;
1131  }
1132  }
1133
1134</pre>
```



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