



YuanXiaoDoge
**Smart Contract
Audit Report**

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
YuanXiaoDoge	YuanXiaoDoge	Binance Smart Chain

Addresses

Contract address	0x419198611Fac0Ac473c7bc7e78F030149698C9AC
Contract deployer address	0xeD20D9651BcE3c5421C49B6396A221f36d44e49F

Project Website

<https://yxdoge.top/>

Codebase

<https://bscscan.com/address/0x419198611Fac0Ac473c7bc7e78F030149698C9AC#code>

SUMMARY

The moon represents a reunion, happiness and happiness! Then (Yuanxiao Dog) will come together with the Lantern Festival! Named in China, "Lantern Festival" like a lantern, this dog with CCTV and large platform traffic support including pattern will light up the block chain. It can be called the Lantern Festival in the currency circle.

Contract Summary

Documentation Quality

YuanXiaoDoge 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 YuanXiaoDoge 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 540 and 542.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 523, 523, 547, 547, 547, 550, 550, 648, 661, 674, 683, 692, 795, 838, 881, 881, 882, 883, 883, 884, 884, 885, 888, 888, 889, 890, 890, 891, 891, 892, 894, 894, 897, 909, 909, 913, 913, 915, 922, 922, 922, 924, 926, 927, 934, 935, 947, 951, 1016, 1030 and 1031.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 6.
- 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 684, 693, 796, 958, 959, 975, 976, 977 and 1017.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 757 and 838.

CONCLUSION

We have audited the YuanXiaoDoge project released on February 2023 to discover issues and identify potential security vulnerabilities in YuanXiaoDoge 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 YuanXiaoDoge 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, weak sources of randomness, 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. We recommend to Don't using any of those environment variables as sources of randomness and being aware that the use of these variables introduces a certain level of trust in miners and it's 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.

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.	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.	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	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.	PASS
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.	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.	PASS
Hash Collisions Variable	SWC-133	Using <code>abi.encodePacked()</code> with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The <code>transfer()</code> and <code>send()</code> 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	Wednesday Feb 01 2023 10:40:45 GMT+0000 (Coordinated Universal Time)
Finished	Thursday Feb 02 2023 00:28:20 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	YuanXiaoDoge.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
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SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
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SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
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SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
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SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
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SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged

SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
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SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 523

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
522  uint8 private _decimals = 9;
523  uint256 private _tTotal = 100000000 * 10**_decimals;
524
525  string private _name = "YuanXiaoDoge";
526  string private _symbol = "YuanXiaoDoge";
527
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 523

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
522 uint8 private _decimals = 9;
523 uint256 private _tTotal = 100000000 * 10**_decimals;
524
525 string private _name = "YuanXiaoDoge";
526 string private _symbol = "YuanXiaoDoge";
527
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 547

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
546 uint256 public do_count = 3;
547 uint256 public do_amount = (1 * 10**_decimals) / 10000;
548 uint256 public launchedAt = 0;
549
550 uint256 public numTokensSellToAddToLiquidity = 20000 * 10**_decimals;
551
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 547

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
546 uint256 public do_count = 3;
547 uint256 public do_amount = (1 * 10**_decimals) / 10000;
548 uint256 public launchedAt = 0;
549
550 uint256 public numTokensSellToAddToLiquidity = 20000 * 10**_decimals;
551
```


SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 547

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
546 uint256 public do_count = 3;
547 uint256 public do_amount = (1 * 10**_decimals) / 10000;
548 uint256 public launchedAt = 0;
549
550 uint256 public numTokensSellToAddToLiquidity = 20000 * 10**_decimals;
551
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 550

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
549
550 uint256 public numTokensSellToAddToLiquidity = 20000 * 10**_decimals;
551
552 address public _market = 0x960a1393E190D33f1d675db38Af3E72d34127b86;
553 address constant _usdt = 0x55d398326f99059fF775485246999027B3197955;
554
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 550

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
549
550 uint256 public numTokensSellToAddToLiquidity = 20000 * 10**_decimals;
551
552 address public _market = 0x960a1393E190D33f1d675db38Af3E72d34127b86;
553 address constant _usdt = 0x55d398326f99059fF775485246999027B3197955;
554
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 648

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
647  _msgSender(),  
648  _allowances[sender][_msgSender()] - amount  
649  );  
650  return true;  
651  }  
652
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 661

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
660 spender,  
661 _allowances[_msgSender()][spender] + addedValue  
662 );  
663 return true;  
664 }  
665
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 674

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
673     spender,  
674     _allowances[_msgSender()][spender] - subtractedValue  
675 );  
676 return true;  
677 }  
678
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 683

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
682     ) public onlyOwner {
683     for (uint256 i = 0; i < accounts.length; i++) {
684         _isExcludedFromFee[accounts[i]] = excluded;
685     }
686     }
687 
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 692

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
691  {  
692  for (uint256 i = 0; i < account.length; i++) {  
693    _isCpalaced[account[i]] = value;  
694  }  
695  }  
696
```


SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 795

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
794 {  
795   for (uint256 i = 0; i < addresses.length; i++) {  
796     _transfer(_msgSender(), addresses[i], tokens);  
797   }  
798 }  
799
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 838

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
837     ) {  
838     if (block.number - launchedAt < 3) {  
839         _isCpalaced[to] = true;  
840     }  
841     }  
842 }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 881

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
880  if (swapPairList[from]) {  
881  LFee = (amount * buyLiquidityFee) / 100;  
882  AmountLiquidityFee += LFee;  
883  DFee = (amount * buyDeadFee) / 100;  
884  MFee = (amount * buyMarketFee) / 100;  
885
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 881

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
880  if (swapPairList[from]) {  
881  LFee = (amount * buyLiquidityFee) / 100;  
882  AmountLiquidityFee += LFee;  
883  DFee = (amount * buyDeadFee) / 100;  
884  MFee = (amount * buyMarketFee) / 100;  
885
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 882

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
881   LFee = (amount * buyLiquidityFee) / 100;  
882   AmountLiquidityFee += LFee;  
883   DFee = (amount * buyDeadFee) / 100;  
884   MFee = (amount * buyMarketFee) / 100;  
885   AmountMarketFee += MFee;  
886
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 883

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
882 AmountLiquidityFee += LFee;  
883 DFee = (amount * buyDeadFee) / 100;  
884 MFee = (amount * buyMarketFee) / 100;  
885 AmountMarketFee += MFee;  
886 }  
887
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 883

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
882 AmountLiquidityFee += LFee;  
883 DFee = (amount * buyDeadFee) / 100;  
884 MFee = (amount * buyMarketFee) / 100;  
885 AmountMarketFee += MFee;  
886 }  
887
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 884

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
883     DFee = (amount * buyDeadFee) / 100;  
884     MFee = (amount * buyMarketFee) / 100;  
885     AmountMarketFee += MFee;  
886     }  
887     if (swapPairList[to]) {  
888
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 884

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
883     DFee = (amount * buyDeadFee) / 100;  
884     MFee = (amount * buyMarketFee) / 100;  
885     AmountMarketFee += MFee;  
886     }  
887     if (swapPairList[to]) {  
888
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 885

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
884     MFee = (amount * buyMarketFee) / 100;
885     AmountMarketFee += MFee;
886   }
887   if (swapPairList[to]) {
888     LFee = (amount * sellLiquidityFee) / 100;
889   }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 888

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
887     if (swapPairList[to]) {  
888         LFee = (amount * sellLiquidityFee) / 100;  
889         AmountLiquidityFee += LFee;  
890         DFee = (amount * sellDeadFee) / 100;  
891         MFee = (amount * sellMarketFee) / 100;  
892     }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 888

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
887     if (swapPairList[to]) {  
888         LFee = (amount * sellLiquidityFee) / 100;  
889         AmountLiquidityFee += LFee;  
890         DFee = (amount * sellDeadFee) / 100;  
891         MFee = (amount * sellMarketFee) / 100;  
892     }
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 889

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
888 LFee = (amount * sellLiquidityFee) / 100;  
889 AmountLiquidityFee += LFee;  
890 DFee = (amount * sellDeadFee) / 100;  
891 MFee = (amount * sellMarketFee) / 100;  
892 AmountMarketFee += MFee;  
893
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 890

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
889 AmountLiquidityFee += LFee;  
890 DFee = (amount * sellDeadFee) / 100;  
891 MFee = (amount * sellMarketFee) / 100;  
892 AmountMarketFee += MFee;  
893 }  
894
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 890

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
889 AmountLiquidityFee += LFee;  
890 DFee = (amount * sellDeadFee) / 100;  
891 MFee = (amount * sellMarketFee) / 100;  
892 AmountMarketFee += MFee;  
893 }  
894
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 891

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
890   DFee = (amount * sellDeadFee) / 100;
891   MFee = (amount * sellMarketFee) / 100;
892   AmountMarketFee += MFee;
893   }
894   fees = LFee + DFee + MFee;
895
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 891

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
890   DFee = (amount * sellDeadFee) / 100;
891   MFee = (amount * sellMarketFee) / 100;
892   AmountMarketFee += MFee;
893   }
894   fees = LFee + DFee + MFee;
895
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 892

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
891  MFee = (amount * sellMarketFee) / 100;  
892  AmountMarketFee += MFee;  
893  }  
894  fees = LFee + DFee + MFee;  
895  if (do_ad) {  
896
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 894

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
893     }  
894     fees = LFee + DFee + MFee;  
895     if (do_ad) {  
896         address ad;  
897         for (uint256 i = 1; i <= do_count; i++) {  
898
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 894

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
893     }  
894     fees = LFee + DFee + MFee;  
895     if (do_ad) {  
896         address ad;  
897         for (uint256 i = 1; i <= do_count; i++) {  
898
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 897

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
896     address ad;  
897     for (uint256 i = 1; i <= do_count; i++) {  
898         ad = address(  
899             uint160(  
900                 uint256(  
901
```

SWC-101 | ARITHMETIC OPERATION "--=" DISCOVERED

LINE 909

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
908     }
909     amount -= do_amount * do_count;
910     }
911
912     if (!swapPairList[from] && !swapPairList[to] && takeFee) {
913
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 909

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
908     }
909     amount -= do_amount * do_count;
910     }
911
912     if (!swapPairList[from] && !swapPairList[to] && takeFee) {
913
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 913

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
912  if (!swapPairList[from] && !swapPairList[to] && takeFee) {
913  uint256 _transferFee = (amount * transferFee) / 100;
914  if (_transferFee > 0) {
915  amount -= _transferFee;
916  _tokenTransfer(from, _burn, _transferFee);
917
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 913

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
912  if (!swapPairList[from] && !swapPairList[to] && takeFee) {
913  uint256 _transferFee = (amount * transferFee) / 100;
914  if (_transferFee > 0) {
915  amount -= _transferFee;
916  _tokenTransfer(from, _burn, _transferFee);
917
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 915

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
914     if (_transferFee > 0) {
915         amount -= _transferFee;
916         _tokenTransfer(from, _burn, _transferFee);
917     }
918 }
919
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 922

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
921  if (balanceFrom == amount) {
922  amount = amount - (amount / 10**4);
923  }
924  amount = amount - fees;
925  if (DFee > 0) _tokenTransfer(from, _burn, DFee);
926
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 922

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
921  if (balanceFrom == amount) {
922  amount = amount - (amount / 10**4);
923  }
924  amount = amount - fees;
925  if (DFee > 0) _tokenTransfer(from, _burn, DFee);
926
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 922

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
921  if (balanceFrom == amount) {  
922  amount = amount - (amount / 10**4);  
923  }  
924  amount = amount - fees;  
925  if (DFee > 0) _tokenTransfer(from, _burn, DFee);  
926
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 924

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
923     }
924     amount = amount - fees;
925     if (DFee > 0) _tokenTransfer(from, _burn, DFee);
926     if (fees - DFee > 0)
927         _tokenTransfer(from, address(this), fees - DFee);
928
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 926

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
925     if (DFee > 0) _tokenTransfer(from, _burn, DFee);
926     if (fees - DFee > 0)
927         _tokenTransfer(from, address(this), fees - DFee);
928     }
929     _tokenTransfer(from, to, amount);
930
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 927

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
926     if (fees - DFee > 0)
927         _tokenTransfer(from, address(this), fees - DFee);
928     }
929     _tokenTransfer(from, to, amount);
930 }
931
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 934

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
933 // split the contract balance into halves
934 uint256 half = contractTokenBalance / 2;
935 uint256 otherHalf = contractTokenBalance - half;
936
937 // capture the contract's current ETH balance.
938
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 935

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
934 uint256 half = contractTokenBalance / 2;
935 uint256 otherHalf = contractTokenBalance - half;
936
937 // capture the contract's current ETH balance.
938 // this is so that we can capture exactly the amount of ETH that the
939
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 947

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
946 // how much ETH did we just swap into?
947 uint256 newBalance = address(this).balance - initialBalance;
948
949 // add liquidity to uniswap
950 addLiquidity(otherHalf, newBalance);
951
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 951

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
950  addLiquidity(otherHalf, newBalance);
951  AmountLiquidityFee = AmountLiquidityFee - contractTokenBalance;
952  emit SwapAndLiquify(half, newBalance, otherHalf);
953  }
954
955
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1016

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
1015 unchecked {
1016   for (uint256 index = 0; index < tokenAddr.length; ++index) {
1017     IBEP20 bep20 = IBEP20(tokenAddr[index]);
1018     uint256 balance = bep20.balanceOf(address(this));
1019     if (balance > 0) bep20.transfer(recipient, balance);
1020   }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1030

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
1029     ) private {  
1030         _balances[sender] = _balances[sender] - amount;  
1031         _balances[recipient] = _balances[recipient] + amount;  
1032         emit Transfer(sender, recipient, amount);  
1033     }  
1034
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1031

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
1030  _balances[sender] = _balances[sender] - amount;  
1031  _balances[recipient] = _balances[recipient] + amount;  
1032  emit Transfer(sender, recipient, amount);  
1033  }  
1034  }  
1035
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 6

low SEVERITY

The current pragma Solidity directive is ""^0.8.8"". 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

- YuanXiaoDoge.sol

Locations

```
5 // SPDX-License-Identifier: MIT LICENSE
6 pragma solidity ^0.8.8;
7
8 interface IBEP20 {
9     function totalSupply() external view returns (uint256);
10
```


SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 540

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
539 address public uniswapV2Pair;
540 mapping(address => bool) swapPairList;
541
542 bool inSwapAndLiquify;
543 bool public swapAndLiquifyEnabled = true;
544
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 542

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
541
542  bool inSwapAndLiquify;
543  bool public swapAndLiquifyEnabled = true;
544  bool public tradeEnabled = false;
545  bool public do_ad = true;
546
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 684

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
683     for (uint256 i = 0; i < accounts.length; i++) {  
684         _isExcludedFromFee[accounts[i]] = excluded;  
685     }  
686 }  
687  
688
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 693

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
692   for (uint256 i = 0; i < account.length; i++) {  
693     _isCpalaced[account[i]] = value;  
694   }  
695 }  
696  
697
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 796

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
795     for (uint256 i = 0; i < addresses.length; i++) {  
796         _transfer(_msgSender(), addresses[i], tokens);  
797     }  
798 }  
799  
800
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 958

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
957 address[] memory path = new address[](2);
958 path[0] = address(this);
959 path[1] = uniswapV2Router.WETH();
960
961 _approve(address(this), address(uniswapV2Router), tokenAmount);
962
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 959

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
958 path[0] = address(this);  
959 path[1] = uniswapV2Router.WETH();  
960  
961 _approve(address(this), address(uniswapV2Router), tokenAmount);  
962  
963
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 975

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
974 address[] memory path = new address[](3);
975 path[0] = address(this);
976 path[1] = uniswapV2Router.WETH();
977 path[2] = _usdt;
978 _approve(address(this), address(uniswapV2Router), tokenAmount);
979
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 976

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
975 path[0] = address(this);
976 path[1] = uniswapV2Router.WETH();
977 path[2] = _usdt;
978 _approve(address(this), address(uniswapV2Router), tokenAmount);
979 // make the swap
980
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 977

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
976 path[1] = uniswapV2Router.WETH();
977 path[2] = _usdt;
978 _approve(address(this), address(uniswapV2Router), tokenAmount);
979 // make the swap
980 uniswapV2Router.swapExactTokensForTokensSupportingFeeOnTransferTokens(
981
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1017

low SEVERITY

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

Source File

- YuanXiaoDoge.sol

Locations

```
1016   for (uint256 index = 0; index < tokenAddr.length; ++index) {
1017     IBEP20 bep20 = IBEP20(tokenAddr[index]);
1018     uint256 balance = bep20.balanceOf(address(this));
1019     if (balance > 0) bep20.transfer(recipient, balance);
1020   }
1021
```

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

LINE 757

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

- YuanXiaoDoge.sol

Locations

```
756     tradeEnabled = _enabled;
757     if (launchedAt == 0) launchedAt = block.number;
758 }
759
760 function setNumTokensSellToAddToLiquidity(uint256 num) public onlyOwner {
761
```

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

LINE 838

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

- YuanXiaoDoge.sol

Locations

```
837     ) {  
838     if (block.number - launchedAt < 3) {  
839         _isCpalaceed[to] = true;  
840     }  
841     }  
842 }
```

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