



Genios Club

Smart Contract Security Audit

Prepared by BlockHat

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Document Properties

Client	Genios Club Community
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Scope

The Genios Club Contract in the Genios Club Repository

Link	Address
https://mumbai.polygonscan.com/address/0x38357E4F7F4A531599A9c690A009517843658a88#code	0x38357E4F7F4A531599A9c690A009517843658a88

Files	MD5 Hash
GeniosClub2/GeniosClub2.sol	6840c24d72ebf0ab4ebbcc70f529f850
GeniosClub2/IERC20.sol	750eccf504ee8ded7d2bb5982aec276f
GeniosClub2/IGeniosClub.sol	d30b769bf5fade7cf583f2124a8d6cb5
GeniosClub2/IPool.sol	8b47044d609747cdf448f1e871776cc2
GeniosClub2/TransferHelper.sol	70b54ad160e594d1d65853588eb7819c

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Contents

- 1 Introduction 5
 - 1.1 About Genios Club 5
 - 1.2 Approach & Methodology 5
 - 1.2.1 Risk Methodology 6
- 2 Findings Overview 7
 - 2.1 Summary 7
 - 2.2 Key Findings 7
- 3 Finding Details 8
 - A LuckyMe.sol 8
 - A.1 Reentrancy [MEDIUM] 8
 - A.2 Owner Can Renounce Ownership [LOW] 9
 - A.3 Floating Pragma [LOW] 10
 - B RandomNumberGenerator.sol 11
 - B.1 Floating Pragma [LOW] 11
- 4 Static Analysis (Slither) 12
- 5 Conclusion 55

1 Introduction

Genios Club engaged BlockHat to conduct a security assessment on the Genios Club beginning on April 15th, 2023 and ending April 17th, 2023. In this report, we detail our methodical approach to evaluate potential security issues associated with the implementation of smart contracts, by exposing possible semantic discrepancies between the smart contract code and design document, and by recommending additional ideas to optimize the existing code. Our findings indicate that the current version of smart contracts can still be enhanced further due to the presence of many security and performance concerns.

This document summarizes the findings of our audit.

1.1 About Genios Club

Genios Club is an international next-gen crowdfunding platform and the first in the history of matrix marketing based on Binance SmartChain smart contracts. It is a self-executing software algorithm that performs the function of distributing partnership rewards between members of a community while adhering to specific conditions (matrix marketing plan).

Issuer	Genios Club Community
Website	https://www.geniosclub.net/
Type	Solidity Smart Contract
Audit Method	Whitebox

1.2 Approach & Methodology

BlockHat used a combination of manual and automated security testing to achieve a balance between efficiency, timeliness, practicability, and correctness within the audit's scope. While manual testing is advised for identifying problems in logic, procedure, and implementation, automated testing techniques help to expand the coverage of smart contracts and can quickly detect code that does not comply with security best practices.

1.2.1 Risk Methodology

Vulnerabilities or bugs identified by BlockHat are ranked using a risk assessment technique that considers both the LIKELIHOOD and IMPACT of a security incident. This framework is effective at conveying the features and consequences of technological vulnerabilities.

Its quantitative paradigm enables repeatable and precise measurement, while also revealing the underlying susceptibility characteristics that were used to calculate the Risk scores. A risk level will be assigned to each vulnerability on a scale of 5 to 1, with 5 indicating the greatest possibility or impact.

- Likelihood quantifies the probability of a certain vulnerability being discovered and exploited in the untamed.
- Impact quantifies the technical and economic costs of a successful attack.
- Severity indicates the risk's overall criticality.

Probability and impact are classified into three categories: H, M, and L, which correspond to high, medium, and low, respectively. Severity is determined by probability and impact and is categorized into four levels, namely Critical, High, Medium, and Low.

Impact	High	Critical	High	Medium
	Medium	High	Medium	Low
	Low	Medium	Low	Low
		High	Medium	Low
		Likelihood		

2 Findings Overview

2.1 Summary

The following is a synopsis of our conclusions from our analysis of the Genios Club implementation. During the first part of our audit, we examine the smart contract source code and run the codebase via a static code analyzer. The objective here is to find known coding problems statically and then manually check (reject or confirm) issues highlighted by the tool. Additionally, we check business logics, system processes, and DeFi-related components manually to identify potential hazards and/or defects.

2.2 Key Findings

In general, these smart contracts are well-designed and constructed, but their implementation might be improved by addressing the discovered flaws, which include , 1 medium-severity, 3 low-severity vulnerabilities.

Vulnerabilities	Severity	Status
Reentrancy	MEDIUM	Acknowledged
Owner Can Renounce Ownership	LOW	Acknowledged
Floating Pragma	LOW	Acknowledged
Floating Pragma	LOW	Acknowledged

3 Finding Details

A LuckyMe.sol

A.1 Reentrancy [MEDIUM]

Description:

The noReentrant modifier uses a simple lock mechanism to protect against reentrancy attacks. However, it may be insufficient to protect against all types of reentrancy attacks. Furthermore, the lock is set to false at the end of the function, which might expose the contract to potential race conditions. This implementation is simpler and more concise, but may be harder to maintain in larger contracts where the Locked variable may be used in multiple functions.

Code:

Listing 1: LuckyMe.sol

```
471     bool internal Locked;  
472     modifier noReentrant() {  
473         require(!Locked, "No re-entrancy");  
474         Locked = true;  
475         _;  
476         Locked = false;  
477     }
```

Risk Level:

Likelihood - 2

Impact - 3

Recommendation:

Implement a more robust reentrancy guard using the Checks-Effects-Interactions pattern or a more comprehensive reentrancy guard library.

Status - Acknowledged

The Lucky Genios team acknowledged this issue

A.2 Owner Can Renounce Ownership [LOW]

Description:

Typically, the account that deploys the contract is also its owner. Consequently, the owner is able to engage in certain privileged activities in his own name. In smart contracts, the `renounceOwnership` function is used to renounce ownership, which means that if the contract's ownership has never been transferred, it will never have an Owner, rendering some owner-exclusive functionality unavailable.

Code:

Listing 2: LuckyMe.sol

```
12 contract LuckyMe is Ownable {
```

Risk Level:

Likelihood - 1

Impact - 3

Recommendation:

We recommend that you prevent the owner from calling `renounceOwnership` without first transferring ownership to a different address. Additionally, if you decide to use a multi-signature wallet, then the execution of the `renounceOwnership` will require for at least two or more users to be confirmed. Alternatively, you can disable Renounce Ownership functionality by overriding it.

Status - Acknowledged

The Lucky Genios team acknowledged this issue

A.3 Floating Pragma [LOW]

Description:

The contract makes use of the floating-point pragma 0.8.18. Contracts should be deployed using the same compiler version and flags that were used during the testing process. Locking the pragma helps ensuring that contracts are not unintentionally deployed using another pragma, such as an obsolete version that may introduce issues in the contract system.

Code:

Listing 3: PropToken.sol

```
2 pragma solidity ^0.8.18;
```

Risk Level:

Likelihood - 1

Impact - 2

Recommendation:

Consider locking the pragma version. It is advised that floating pragma not be used in production. Both truffle-config.js and hardhat.config.js support locking the pragma version.

Status - Acknowledged

The Lucky Genios team acknowledged this issue

B RandomNumberGenerator.sol

B.1 Floating Pragma [LOW]

Description:

The contract makes use of the floating-point pragma 0.8.18. Contracts should be deployed using the same compiler version and flags that were used during the testing process. Locking the pragma helps ensuring that contracts are not unintentionally deployed using another pragma, such as an obsolete version that may introduce issues in the contract system.

Code:

Listing 4: RandomNumberGenerator.sol

```
2 pragma solidity ^0.8.18;
```

Risk Level:

Likelihood - 1

Impact - 2

Recommendation:

Consider locking the pragma version. It is advised that floating pragma not be used in production. Both truffle-config.js and hardhat.config.js support locking the pragma version.

Status - Acknowledged

The Lucky Genios team acknowledged this issue

4 Static Analysis (Slither)

Description:

Block Hat expanded the coverage of the specific contract areas using automated testing methodologies. Slither, a Solidity static analysis framework, was one of the tools used. Slither was run on all-scoped contracts in both text and binary formats. This tool can be used to test mathematical relationships between Solidity instances statically and variables that allow for the detection of errors or inconsistent usage of the contracts' APIs throughout the entire codebase.

Results:

```
Compilation warnings/errors on ./GeniosClub2.sol:
Warning: Contract code size is 46565 bytes and exceeds 24576 bytes (a
↳ limit introduced in Spurious Dragon). This contract may not be
↳ deployable on Mainnet. Consider enabling the optimizer (with a
↳ low "runs" value!), turning off revert strings, or using
↳ libraries.
--> GeniosClub2.sol:8:1:
|
8 | contract GeniosClub2 is IGeniosClub {
  | ^ (Relevant source part starts here and spans across multiple lines)
  ↳ .

INFO:Detectors:
Different versions of Solidity are used:
  - Version used: ['>=0.6.0', '^0.8.0']
  - >=0.6.0 (TransferHelper.sol#2)
  - ^0.8.0 (IERC20.sol#4)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation
↳ #different-pragma-directives-are-used
INFO:Detectors:
```

```

TransferHelper.safeApprove(address,address,uint256) (TransferHelper.sol
  ↳ #43-50) is never used and should be removed
TransferHelper.safeTransfer(address,address,uint256) (TransferHelper.sol
  ↳ #29-36) is never used and should be removed
TransferHelper.safeTransferETH(address,uint256) (TransferHelper.sol
  ↳ #56-59) is never used and should be removed
TransferHelper.safeTransferFrom(address,address,address,uint256) (
  ↳ TransferHelper.sol#13-22) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation
  ↳ #dead-code
INFO:Detectors:
Pragma version<0.8.0 (IERC20.sol#4) allows old versions
Pragma version>=0.6.0 (TransferHelper.sol#2) allows old versions
solc-0.8.19 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation
  ↳ #incorrect-versions-of-solidity
INFO:Detectors:
Low level call in TransferHelper.safeTransferFrom(address,address,
  ↳ address,uint256) (TransferHelper.sol#13-22):
  - (success,data) = token.call(abi.encodeWithSelector(IERC20.
    ↳ transferFrom.selector,from,to,value)) (TransferHelper.sol
    ↳ #19-20)
Low level call in TransferHelper.safeTransfer(address,address,uint256) (
  ↳ TransferHelper.sol#29-36):
  - (success,data) = token.call(abi.encodeWithSelector(IERC20.
    ↳ transfer.selector,to,value)) (TransferHelper.sol#34)
Low level call in TransferHelper.safeApprove(address,address,uint256) (
  ↳ TransferHelper.sol#43-50):
  - (success,data) = token.call(abi.encodeWithSelector(IERC20.
    ↳ approve.selector,to,value)) (TransferHelper.sol#48)
Low level call in TransferHelper.safeTransferETH(address,uint256) (
  ↳ TransferHelper.sol#56-59):
  - (success) = to.call{value: value}(new bytes(0)) (TransferHelper
    ↳ .sol#57)

```

```

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation
↳ #low-level-calls
INFO:Detectors:
Pragma version^0.8.0 (IGeniosClub.sol#2) allows old versions
solc-0.8.19 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation
↳ #incorrect-versions-of-solidity
INFO:Detectors:
Pragma version^0.8.0 (IPool.sol#2) allows old versions
solc-0.8.19 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation
↳ #incorrect-versions-of-solidity
INFO:Detectors:
Function IPool.DepositAmount(uint8,uint256) (IPool.sol#9) is not in
↳ mixedCase
Function IPool.AddUser(uint8,address) (IPool.sol#11) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation
↳ #conformance-to-solidity-naming-conventions
INFO:Detectors:
Reentrancy in GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.
↳ sol#499-509):
    External calls:
    - IPool(PoolAddr).AddUser(level,userAddr) (GeniosClub2.sol#506)
    State variables written after the call(s):
    - Users[userAddr].Ranks[level].IsActive = true (GeniosClub2.sol
      ↳ #507)
    GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross
      ↳ function reentrancies:
    - GeniosClub2.Users (GeniosClub2.sol#95)
    - GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
      ↳ #499-509)
    - GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
      ↳ #243-264)

```

- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
 - ↳ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
 - ↳ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
 - ↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
 - ↳ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
 - ↳ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
 - ↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
 - ↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
 - ↳ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
 - ↳ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
 - ↳ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
 - ↳ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
 - ↳ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
 - ↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
 - ↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
 - ↳ #926-931)

```

- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
  ↪ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
  ↪ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
  ↪ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
  ↪ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
  ↪ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
  ↪ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
  ↪ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
Reentrancy in GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
  ↪ GeniosClub2.sol#266-297):
  External calls:
  - _activeUserRank(userAddr,level - 1) (GeniosClub2.sol#292)
    - IPool(PoolAddr).AddUser(level,userAddr) (GeniosClub2.sol
      ↪ #506)
  - updateG3X7Referrer(userAddr,curRefaddr,level) (GeniosClub2.sol
    ↪ #295)
    - TransferHelper.safeTransfer(TOKEN,PoolAddr,commAmount) (
      ↪ GeniosClub2.sol#928)
    - TransferHelper.safeTransfer(TOKEN,
      ↪ AcademyAndMarketingAddr,commAmount) (GeniosClub2.
      ↪ sol#935)
    - (success,data) = token.call(abi.encodeWithSelector(
      ↪ IERC20.transfer.selector,to,value)) (TransferHelper
      ↪ .sol#34)
    - IPool(PoolAddr).DepositAmount(level,commAmount) (
      ↪ GeniosClub2.sol#929)

```



```

- IPool(PoolAddr).AddUser(level,userAddr) (GeniosClub2.sol
  ↪ #506)
- TransferHelper.safeTransfer(TOKEN,receiver,amount2) (
  ↪ GeniosClub2.sol#857)

```

State variables written after the `call(s)`:

```

- updateG3X7Referrer(userAddr,curRefaddr,level) (GeniosClub2.sol
  ↪ #295)
  - Users[curRefaddr].G3X7Matrix[level].FirstLevelRefs.push(
    ↪ userAddr) (GeniosClub2.sol#523)
  - Users[Users[userAddr].Ref].Ranks[level + 1].DirectRefs
    ↪ ++ (GeniosClub2.sol#504)
  - Users[userAddr].G3X7Matrix[level].CurrentRef =
    ↪ curRefaddr (GeniosClub2.sol#524)
  - Users[userAddr].Ranks[level].IsActive = true (
    ↪ GeniosClub2.sol#507)
  - Users[curRefaddr].TotalTeam ++ (GeniosClub2.sol#526)
  - Users[curRefaddr].Ranks[level].TotalTeam ++ (GeniosClub2
    ↪ .sol#533)
  - Users[curRefaddr].G3X7MatrixRecycleAmount[level] +=
    ↪ amount (GeniosClub2.sol#752)
  - Users[curRefaddr].RankTeams[level].G3x7FirstTeam ++ (
    ↪ GeniosClub2.sol#534)
  - Users[curRefaddr].G3X7MatrixRecycleAmount[level] = 0 (
    ↪ GeniosClub2.sol#756)
  - Users[curRefaddr].G3X7Matrix[level].FirstLevelRefs = new
    ↪ address [] (0) (GeniosClub2.sol#760)
  - Users[curRefaddr].G3X7Matrix[level].SecondLevelRefs =
    ↪ new address [] (0) (GeniosClub2.sol#761)
  - Users[curRefaddr].G3X7Matrix[level].ThirdLevelRefs = new
    ↪ address [] (0) (GeniosClub2.sol#762)
  - Users[curRefaddr].G3X7Matrix[level].FourthLevelRefs =
    ↪ new address [] (0) (GeniosClub2.sol#763)
  - Users[curRefaddr].G3X7Matrix[level].FifthLevelRefs = new
    ↪ address [] (0) (GeniosClub2.sol#764)

```

```

- Users[curRefaddr].G3X7Matrix[level].SixthLevelRefs = new
  ↪ address[] (0) (GeniosClub2.sol#765)
- Users[receiver].G3X7Earnings += amount2 (GeniosClub2.sol
  ↪ #860)
- Users[curRefaddr].G3X7Matrix[level].SeventhLevelRefs =
  ↪ new address[] (0) (GeniosClub2.sol#766)
- Users[ref_currentRef].G3X7Matrix[level].SecondLevelRefs.
  ↪ push(userAddr) (GeniosClub2.sol#555)
- Users[receiver].G3X7Matrix[level].Earnings += amount2 (
  ↪ GeniosClub2.sol#861)
- Users[curRefaddr].G3X7Matrix[level].Blocked = true (
  ↪ GeniosClub2.sol#769)
- Users[ref_currentRef].TotalTeam ++ (GeniosClub2.sol#557)
- Users[curRefaddr].G3X7Matrix[level].ReinvestCount ++ (
  ↪ GeniosClub2.sol#772)
- Users[ref_currentRef].Ranks[level].TotalTeam ++ (
  ↪ GeniosClub2.sol#564)
- Users[curRefaddr].G3X7Matrix[level].ReinvestTime = block
  ↪ .timestamp (GeniosClub2.sol#773)
- Users[ref_currentRef].RankTeams[level].G3x7SecondTeam ++
  ↪ (GeniosClub2.sol#565)
- Users[ref_currentRef].G3X7Matrix[level].ThirdLevelRefs.
  ↪ push(userAddr) (GeniosClub2.sol#586)
- Users[ref_currentRef].TotalTeam ++ (GeniosClub2.sol#588)
- Users[ref_currentRef].Ranks[level].TotalTeam ++ (
  ↪ GeniosClub2.sol#595)
- Users[ref_currentRef].RankTeams[level].G3x7SecondTeam ++
  ↪ (GeniosClub2.sol#596)
- Users[ref_currentRef].G3X7Matrix[level].FourthLevelRefs.
  ↪ push(userAddr) (GeniosClub2.sol#617)
- Users[ref_currentRef].TotalTeam ++ (GeniosClub2.sol#619)
- Users[ref_currentRef].Ranks[level].TotalTeam ++ (
  ↪ GeniosClub2.sol#626)

```

```

- Users[ref_currentRef].RankTeams[level].G3x7SecondTeam ++
  ↪ (GeniosClub2.sol#627)
- Users[ref_currentRef].G3X7Matrix[level].FifthLevelRefs.
  ↪ push(userAddr) (GeniosClub2.sol#648)
- Users[ref_currentRef].TotalTeam ++ (GeniosClub2.sol#650)
- Users[ref_currentRef].Ranks[level].TotalTeam ++ (
  ↪ GeniosClub2.sol#657)
- Users[ref_currentRef].RankTeams[level].G3x7SecondTeam ++
  ↪ (GeniosClub2.sol#658)
- Users[ref_currentRef].G3X7Matrix[level].SixthLevelRefs.
  ↪ push(userAddr) (GeniosClub2.sol#679)
- Users[ref_currentRef].TotalTeam ++ (GeniosClub2.sol#681)
- Users[ref_currentRef].Ranks[level].TotalTeam ++ (
  ↪ GeniosClub2.sol#688)
- Users[ref_currentRef].RankTeams[level].G3x7SecondTeam ++
  ↪ (GeniosClub2.sol#689)
- Users[ref_currentRef].G3X7Matrix[level].SeventhLevelRefs
  ↪ .push(userAddr) (GeniosClub2.sol#710)
- Users[ref_currentRef].TotalTeam ++ (GeniosClub2.sol#712)
- Users[ref_currentRef].Ranks[level].TotalTeam ++ (
  ↪ GeniosClub2.sol#719)
- Users[ref_currentRef].RankTeams[level].G3x7SecondTeam ++
  ↪ (GeniosClub2.sol#720)
GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross
  ↪ function reentrancies:
- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
  ↪ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
  ↪ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
  ↪ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
  ↪ .sol#208-241)

```

- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
↳ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
↳ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
↳ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
↳ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
↳ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
↳ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
↳ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
↳ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
↳ GeniosClub2.sol#511-737)

- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol#999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol#1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol#983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)

Reentrancy in GeniosClub2._registration(address,address,address) (GeniosClub2.sol#208-241):

External calls:

- updateG3X2Referrer(userAddr,freeG3X2Ref,level) (GeniosClub2.sol#236)
 - (success,data) = token.call(abi.encodeWithSelector(IERC20.transfer.selector,to,value)) (TransferHelper.sol#34)
 - TransferHelper.safeTransfer(TOKEN,receiver,amount1) (GeniosClub2.sol#818)
- updateG3X7Referrer(userAddr,curRefaddr,level) (GeniosClub2.sol#238)
 - TransferHelper.safeTransfer(TOKEN,PoolAddr,commAmount) (GeniosClub2.sol#928)
 - TransferHelper.safeTransfer(TOKEN,AcademyAndMarketingAddr,commAmount) (GeniosClub2.sol#935)
 - (success,data) = token.call(abi.encodeWithSelector(IERC20.transfer.selector,to,value)) (TransferHelper.sol#34)
 - IPool(PoolAddr).DepositAmount(level,commAmount) (GeniosClub2.sol#929)

```

- IPool(PoolAddr).AddUser(level,userAddr) (GeniosClub2.sol
  ↪ #506)
- TransferHelper.safeTransfer(TOKEN,receiver,amount2) (
  ↪ GeniosClub2.sol#857)
State variables written after the call(s):
- updateG3X7Referrer(userAddr,curRefaddr,level) (GeniosClub2.sol
  ↪ #238)
  - Platform.G3X7TotalEarnings += amount2 (GeniosClub2.sol
    ↪ #859)
GeniosClub2.Platform (GeniosClub2.sol#91) can be used in cross
  ↪ function reentrancies:
- GeniosClub2.Platform (GeniosClub2.sol#91)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
  ↪ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
  ↪ address) (GeniosClub2.sol#834-874)
- updateG3X7Referrer(userAddr,curRefaddr,level) (GeniosClub2.sol
  ↪ #238)
  - Users[curRefaddr].G3X7Matrix[level].FirstLevelRefs.push(
    ↪ userAddr) (GeniosClub2.sol#523)
  - Users[Users[userAddr].Ref].Ranks[level + 1].DirectRefs
    ↪ ++ (GeniosClub2.sol#504)
  - Users[userAddr].G3X7Matrix[level].CurrentRef =
    ↪ curRefaddr (GeniosClub2.sol#524)
  - Users[userAddr].Ranks[level].IsActive = true (
    ↪ GeniosClub2.sol#507)
  - Users[curRefaddr].TotalTeam ++ (GeniosClub2.sol#526)
  - Users[curRefaddr].Ranks[level].TotalTeam ++ (GeniosClub2
    ↪ .sol#533)
  - Users[curRefaddr].G3X7MatrixRecycleAmount[level] +=
    ↪ amount (GeniosClub2.sol#752)
  - Users[curRefaddr].RankTeams[level].G3x7FirstTeam ++ (
    ↪ GeniosClub2.sol#534)

```

```

- Users[curRefaddr].G3X7MatrixRecycleAmount[level] = 0 (
  ↪ GeniosClub2.sol#756)
- Users[curRefaddr].G3X7Matrix[level].FirstLevelRefs = new
  ↪ address[] (0) (GeniosClub2.sol#760)
- Users[curRefaddr].G3X7Matrix[level].SecondLevelRefs =
  ↪ new address[] (0) (GeniosClub2.sol#761)
- Users[curRefaddr].G3X7Matrix[level].ThirdLevelRefs = new
  ↪ address[] (0) (GeniosClub2.sol#762)
- Users[curRefaddr].G3X7Matrix[level].FourthLevelRefs =
  ↪ new address[] (0) (GeniosClub2.sol#763)
- Users[curRefaddr].G3X7Matrix[level].FifthLevelRefs = new
  ↪ address[] (0) (GeniosClub2.sol#764)
- Users[curRefaddr].G3X7Matrix[level].SixthLevelRefs = new
  ↪ address[] (0) (GeniosClub2.sol#765)
- Users[receiver].G3X7Earnings += amount2 (GeniosClub2.sol
  ↪ #860)
- Users[curRefaddr].G3X7Matrix[level].SeventhLevelRefs =
  ↪ new address[] (0) (GeniosClub2.sol#766)
- Users[ref_currentRef].G3X7Matrix[level].SecondLevelRefs.
  ↪ push(userAddr) (GeniosClub2.sol#555)
- Users[receiver].G3X7Matrix[level].Earnings += amount2 (
  ↪ GeniosClub2.sol#861)
- Users[curRefaddr].G3X7Matrix[level].Blocked = true (
  ↪ GeniosClub2.sol#769)
- Users[ref_currentRef].TotalTeam ++ (GeniosClub2.sol#557)
- Users[curRefaddr].G3X7Matrix[level].ReinvestCount ++ (
  ↪ GeniosClub2.sol#772)
- Users[ref_currentRef].Ranks[level].TotalTeam ++ (
  ↪ GeniosClub2.sol#564)
- Users[curRefaddr].G3X7Matrix[level].ReinvestTime = block
  ↪ .timestamp (GeniosClub2.sol#773)
- Users[ref_currentRef].RankTeams[level].G3x7SecondTeam ++
  ↪ (GeniosClub2.sol#565)

```

```

- Users[ref_currentRef].G3X7Matrix[level].ThirdLevelRefs.
  ↪ push(userAddr) (GeniosClub2.sol#586)
- Users[ref_currentRef].TotalTeam ++ (GeniosClub2.sol#588)
- Users[ref_currentRef].Ranks[level].TotalTeam ++ (
  ↪ GeniosClub2.sol#595)
- Users[ref_currentRef].RankTeams[level].G3x7SecondTeam ++
  ↪ (GeniosClub2.sol#596)
- Users[ref_currentRef].G3X7Matrix[level].FourthLevelRefs.
  ↪ push(userAddr) (GeniosClub2.sol#617)
- Users[ref_currentRef].TotalTeam ++ (GeniosClub2.sol#619)
- Users[ref_currentRef].Ranks[level].TotalTeam ++ (
  ↪ GeniosClub2.sol#626)
- Users[ref_currentRef].RankTeams[level].G3x7SecondTeam ++
  ↪ (GeniosClub2.sol#627)
- Users[ref_currentRef].G3X7Matrix[level].FifthLevelRefs.
  ↪ push(userAddr) (GeniosClub2.sol#648)
- Users[ref_currentRef].TotalTeam ++ (GeniosClub2.sol#650)
- Users[ref_currentRef].Ranks[level].TotalTeam ++ (
  ↪ GeniosClub2.sol#657)
- Users[ref_currentRef].RankTeams[level].G3x7SecondTeam ++
  ↪ (GeniosClub2.sol#658)
- Users[ref_currentRef].G3X7Matrix[level].SixthLevelRefs.
  ↪ push(userAddr) (GeniosClub2.sol#679)
- Users[ref_currentRef].TotalTeam ++ (GeniosClub2.sol#681)
- Users[ref_currentRef].Ranks[level].TotalTeam ++ (
  ↪ GeniosClub2.sol#688)
- Users[ref_currentRef].RankTeams[level].G3x7SecondTeam ++
  ↪ (GeniosClub2.sol#689)
- Users[ref_currentRef].G3X7Matrix[level].SeventhLevelRefs
  ↪ .push(userAddr) (GeniosClub2.sol#710)
- Users[ref_currentRef].TotalTeam ++ (GeniosClub2.sol#712)
- Users[ref_currentRef].Ranks[level].TotalTeam ++ (
  ↪ GeniosClub2.sol#719)

```



```

- Users[ref_currentRef].RankTeams[level].G3x7SecondTeam ++
  ↪ (GeniosClub2.sol#720)
GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross
  ↪ function reentrancies:
- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
  ↪ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
  ↪ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
  ↪ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
  ↪ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
  ↪ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
  ↪ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
  ↪ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
  ↪ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
  ↪ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
  ↪ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
  ↪ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
  ↪ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
  ↪ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
  ↪ address) (GeniosClub2.sol#834-874)

```

- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
 - ↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
 - ↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
 - ↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
 - ↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
 - ↳ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
 - ↳ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
- updateG3X7Referrer(userAddr,curRefaddr,level) (GeniosClub2.sol
 - ↳ #238)
 - UsersTeams[curRefaddr].G3x7FirstTeam ++ (GeniosClub2.sol
 - ↳ #525)
 - UsersTeams[ref_currentRef].G3x7SecondTeam ++ (
 - ↳ GeniosClub2.sol#556)
 - UsersTeams[ref_currentRef].G3x7ThirdTeam ++ (GeniosClub2
 - ↳ .sol#587)

```

- UsersTeams[ref_currentRef].G3x7FourthTeam ++ (
  ↪ GeniosClub2.sol#618)
- UsersTeams[ref_currentRef].G3x7FifthTeam ++ (GeniosClub2
  ↪ .sol#649)
- UsersTeams[ref_currentRef].G3x7SixthTeam ++ (GeniosClub2
  ↪ .sol#680)
- UsersTeams[ref_currentRef].G3x7SeventhTeam ++ (
  ↪ GeniosClub2.sol#711)
GeniosClub2.UsersTeams (GeniosClub2.sol#96) can be used in cross
  ↪ function reentrancies:
- GeniosClub2.UsersTeams (GeniosClub2.sol#96)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
  ↪ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
  ↪ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
  ↪ GeniosClub2.sol#511-737)
Reentrancy in GeniosClub2.sendG3X2TokenDividends(address,address,uint8)
  ↪ (GeniosClub2.sol#806-832):
  External calls:
- TransferHelper.safeTransfer(TOKEN,receiver,amount1) (
  ↪ GeniosClub2.sol#818)
State variables written after the call(s):
- Users[receiver].G3X2Earnings += amount1 (GeniosClub2.sol#821)
GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross
  ↪ function reentrancies:
- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
  ↪ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
  ↪ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
  ↪ GeniosClub2.sol#266-297)

```

- GeniosClub2._registration(address,address,address) (GeniosClub2
↳ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
↳ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
↳ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
↳ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
↳ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
↳ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
↳ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
↳ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
↳ GeniosClub2.sol#739-792)

- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
 - ↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
 - ↳ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
 - ↳ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
- Users[receiver].G3X2Matrix[level].Earnings += amount1 (
 - ↳ GeniosClub2.sol#822)

GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross

- ↳ function reentrancies:

- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
 - ↳ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
 - ↳ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
 - ↳ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
 - ↳ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
 - ↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
 - ↳ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
 - ↳ GeniosClub2.sol#142-164)

- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
↳ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
↳ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
↳ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
↳ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
↳ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
↳ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
↳ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
↳ #999-1013)

```

- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
  ↪ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
  ↪ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
Reentrancy in GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
  ↪ address) (GeniosClub2.sol#834-874):
  External calls:
- updateG3X7Pool(receiver,level) (GeniosClub2.sol#846)
  - TransferHelper.safeTransfer(TOKEN,PoolAddr,commAmount) (
    ↪ GeniosClub2.sol#928)
  - (success,data) = token.call(abi.encodeWithSelector(
    ↪ IERC20.transfer.selector,to,value)) (TransferHelper
    ↪ .sol#34)
  - IPool(PoolAddr).DepositAmount(level,commAmount) (
    ↪ GeniosClub2.sol#929)
- updateG3X7Academy(receiver,level) (GeniosClub2.sol#847)
  - TransferHelper.safeTransfer(TOKEN,
    ↪ AcademyAndMarketingAddr,commAmount) (GeniosClub2.
    ↪ sol#935)
  - (success,data) = token.call(abi.encodeWithSelector(
    ↪ IERC20.transfer.selector,to,value)) (TransferHelper
    ↪ .sol#34)
- TransferHelper.safeTransfer(TOKEN,receiver,amount2) (
  ↪ GeniosClub2.sol#857)
State variables written after the call(s):
- Platform.G3X7TotalEarnings += amount2 (GeniosClub2.sol#859)
GeniosClub2.Platform (GeniosClub2.sol#91) can be used in cross
  ↪ function reentrancies:
- GeniosClub2.Platform (GeniosClub2.sol#91)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
  ↪ GeniosClub2.sol#806-832)

```

- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
 ↪ address) (GeniosClub2.sol#834-874)
- Users[receiver].G3X7Earnings += amount2 (GeniosClub2.sol#860)

GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross
 ↪ function reentrancies:

- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
 ↪ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
 ↪ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
 ↪ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
 ↪ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
 ↪ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
 ↪ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
 ↪ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
 ↪ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
 ↪ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
 ↪ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
 ↪ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
 ↪ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
 ↪ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
 ↪ address) (GeniosClub2.sol#834-874)

- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
 - ↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
 - ↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
 - ↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
 - ↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
 - ↳ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
 - ↳ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
- Users[receiver].G3X7Matrix[level].Earnings += amount2 (
 - ↳ GeniosClub2.sol#861)

GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross

- ↳ function reentrancies:

- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
 - ↳ #499-509)

- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
↳ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
↳ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
↳ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
↳ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
↳ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
↳ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
↳ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
↳ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
↳ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
↳ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
↳ #933-937)

- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
↳ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
↳ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
↳ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
↳ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
↳ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)

Reentrancy in GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8
↳) (GeniosClub2.sol#433-485):

External calls:

- _buyNewLevelG3X2(refAddr,level + 1) (GeniosClub2.sol#449)
 - (success,data) = token.call(abi.encodeWithSelector(
↳ IERC20.transfer.selector,to,value)) (TransferHelper
↳ .sol#34)
 - TransferHelper.safeTransfer(TOKEN,receiver,amount1) (
↳ GeniosClub2.sol#818)

State variables written after the call(s):

- Users[refAddr].Amount -= LevelPrice[level + 1] (GeniosClub2.sol
↳ #450)

GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross
↳ function reentrancies:

- GeniosClub2.Users (GeniosClub2.sol#95)

- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
↳ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
↳ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
↳ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
↳ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
↳ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
↳ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
↳ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
↳ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
↳ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
↳ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
↳ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
↳ GeniosClub2.sol#299-383)

- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
↳ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
↳ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
↳ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
↳ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
↳ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)

Reentrancy in GeniosClub2.updateG3X7RefLastLevel(address,address,uint8)

↳ (GeniosClub2.sol#739-792):

External calls:

- sendG3X7TokenDividends(curRefaddr,userAddr,level,curRefaddr) (
↳ GeniosClub2.sol#757)
 - TransferHelper.safeTransfer(TOKEN,PoolAddr,commAmount) (
↳ GeniosClub2.sol#928)
 - TransferHelper.safeTransfer(TOKEN,
↳ AcademyAndMarketingAddr,commAmount) (GeniosClub2.
↳ sol#935)
 - (success,data) = token.call(abi.encodeWithSelector(
↳ IERC20.transfer.selector,to,value)) (TransferHelper
↳ .sol#34)

```

- IPool(PoolAddr).DepositAmount(level,commAmount) (
  ↪ GeniosClub2.sol#929)
- TransferHelper.safeTransfer(TOKEN,receiver,amount2) (
  ↪ GeniosClub2.sol#857)
State variables written after the call(s):
- Users[curRefaddr].G3X7Matrix[level].FirstLevelRefs = new
  ↪ address[] (0) (GeniosClub2.sol#760)
GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross
  ↪ function reentrancies:
- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
  ↪ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
  ↪ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
  ↪ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
  ↪ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
  ↪ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
  ↪ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
  ↪ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
  ↪ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
  ↪ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
  ↪ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
  ↪ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
  ↪ #1044-1048)

```

```

- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
  ↪ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
  ↪ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
  ↪ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
  ↪ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
  ↪ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
  ↪ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
  ↪ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
  ↪ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
  ↪ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
  ↪ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
  ↪ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
  ↪ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
  ↪ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
  ↪ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
- Users[curRefaddr].G3X7Matrix[level].SecondLevelRefs = new
  ↪ address[] (0) (GeniosClub2.sol#761)
GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross
  ↪ function reentrancies:

```

- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
↳ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
↳ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
↳ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
↳ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
↳ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
↳ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
↳ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
↳ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
↳ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
↳ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
↳ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
↳ GeniosClub2.sol#433-485)

- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
 - ↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
 - ↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
 - ↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
 - ↳ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
 - ↳ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
- Users[curRefaddr].G3X7Matrix[level].ThirdLevelRefs = new
 - ↳ address[] (0) (GeniosClub2.sol#762)

GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross

- ↳ function reentrancies:

- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
 - ↳ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
 - ↳ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
 - ↳ GeniosClub2.sol#266-297)

- GeniosClub2._registration(address,address,address) (GeniosClub2
↳ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
↳ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
↳ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
↳ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
↳ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
↳ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
↳ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
↳ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
↳ GeniosClub2.sol#739-792)

- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
 - ↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
 - ↳ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
 - ↳ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
- Users[curRefaddr].G3X7Matrix[level].FourthLevelRefs = new
 - ↳ address[] (0) (GeniosClub2.sol#763)

GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross

- ↳ function reentrancies:

- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
 - ↳ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
 - ↳ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
 - ↳ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
 - ↳ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
 - ↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
 - ↳ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
 - ↳ GeniosClub2.sol#142-164)

- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
↳ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
↳ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
↳ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
↳ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
↳ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
↳ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
↳ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
↳ #999-1013)

- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
↳ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
↳ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
- Users[curRefaddr].G3X7Matrix[level].FifthLevelRefs = new
↳ address[] (0) (GeniosClub2.sol#764)

GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross
↳ function reentrancies:

- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
↳ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
↳ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
↳ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
↳ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
↳ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
↳ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
↳ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
↳ GeniosClub2.sol#901-924)

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- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
  ↪ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
  ↪ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
  ↪ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
  ↪ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
  ↪ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
  ↪ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
  ↪ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
  ↪ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
  ↪ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
  ↪ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
  ↪ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
  ↪ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
  ↪ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
  ↪ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
  ↪ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
- Users[curRefaddr].G3X7Matrix[level].SixthLevelRefs = new
  ↪ address[] (0) (GeniosClub2.sol#765)

```

```
GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross
  ↪ function reentrancies:
- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
  ↪ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
  ↪ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
  ↪ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
  ↪ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
  ↪ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
  ↪ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
  ↪ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
  ↪ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
  ↪ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
  ↪ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
  ↪ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
  ↪ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
  ↪ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
  ↪ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
  ↪ GeniosClub2.sol#385-431)
```

- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
 - ↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
 - ↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
 - ↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
 - ↳ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
 - ↳ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
- Users[curRefaddr].G3X7Matrix[level].SeventhLevelRefs = new
 - ↳ address[] (0) (GeniosClub2.sol#766)

GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross

- ↳ function reentrancies:

- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
 - ↳ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
 - ↳ #243-264)

- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
 - ↳ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
 - ↳ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
 - ↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
 - ↳ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
 - ↳ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
 - ↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
 - ↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
 - ↳ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
 - ↳ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
 - ↳ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
 - ↳ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
 - ↳ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
 - ↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
 - ↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
 - ↳ #926-931)

- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
 - ↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
 - ↳ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
 - ↳ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
- Users[curRefaddr].G3X7Matrix[level].Blocked = true (GeniosClub2
 - ↳ .sol#769)

GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross

- ↳ function reentrancies:

- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
 - ↳ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
 - ↳ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
 - ↳ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
 - ↳ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
 - ↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
 - ↳ #948-955)

- GeniosClub2.constructor(address,address,address,address) (
 - ↳ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
 - ↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
 - ↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
 - ↳ GeniosClub2.sol#876-899)
- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
 - ↳ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
 - ↳ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
 - ↳ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
 - ↳ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
 - ↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
 - ↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
 - ↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
 - ↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
 - ↳ sol#964-969)

- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
↳ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
↳ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
↳ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)
- Users[curRefaddr].G3X7Matrix[level].ReinvestCount ++ (
↳ GeniosClub2.sol#772)

GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross
↳ function reentrancies:

- GeniosClub2.Users (GeniosClub2.sol#95)
- GeniosClub2._activeUserRank(address,uint8) (GeniosClub2.sol
↳ #499-509)
- GeniosClub2._buyNewLevelG3X2(address,uint8) (GeniosClub2.sol
↳ #243-264)
- GeniosClub2._buyNewLevelG3X7(address,address,uint8) (
↳ GeniosClub2.sol#266-297)
- GeniosClub2._registration(address,address,address) (GeniosClub2
↳ .sol#208-241)
- GeniosClub2.activateAllG3X2Levels(address) (GeniosClub2.sol
↳ #939-946)
- GeniosClub2.activateAllG3X7Levels(address) (GeniosClub2.sol
↳ #948-955)
- GeniosClub2.constructor(address,address,address,address) (
↳ GeniosClub2.sol#142-164)
- GeniosClub2.findFreeG3X2Referrer(address,uint8) (GeniosClub2.
↳ sol#487-497)
- GeniosClub2.findFreeG3X7Referrer(address,uint8) (GeniosClub2.
↳ sol#794-804)
- GeniosClub2.findTokenG3X2Receiver(address,address,uint8) (
↳ GeniosClub2.sol#876-899)

- GeniosClub2.findTokenG3X7Receiver(address,address,uint8) (
 - ↳ GeniosClub2.sol#901-924)
- GeniosClub2.getDirectRefsIds(address) (GeniosClub2.sol
 - ↳ #1044-1048)
- GeniosClub2.sendG3X2TokenDividends(address,address,uint8) (
 - ↳ GeniosClub2.sol#806-832)
- GeniosClub2.sendG3X7TokenDividends(address,address,uint8,
 - ↳ address) (GeniosClub2.sol#834-874)
- GeniosClub2.updateG3X2(address,address,uint8,uint8) (
 - ↳ GeniosClub2.sol#385-431)
- GeniosClub2.updateG3X2RefSecondLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#433-485)
- GeniosClub2.updateG3X2Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#299-383)
- GeniosClub2.updateG3X7Academy(address,uint8) (GeniosClub2.sol
 - ↳ #933-937)
- GeniosClub2.updateG3X7Pool(address,uint8) (GeniosClub2.sol
 - ↳ #926-931)
- GeniosClub2.updateG3X7RefLastLevel(address,address,uint8) (
 - ↳ GeniosClub2.sol#739-792)
- GeniosClub2.updateG3X7Referrer(address,address,uint8) (
 - ↳ GeniosClub2.sol#511-737)
- GeniosClub2.usersActiveG3X2Levels(address,uint8) (GeniosClub2.
 - ↳ sol#957-962)
- GeniosClub2.usersActiveG3X7Levels(address,uint8) (GeniosClub2.
 - ↳ sol#964-969)
- GeniosClub2.usersG3X2Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #999-1013)
- GeniosClub2.usersG3X7Matrix(address,uint8) (GeniosClub2.sol
 - ↳ #1015-1034)
- GeniosClub2.usersRankTeams(address,uint8) (GeniosClub2.sol
 - ↳ #983-997)
- GeniosClub2.usersRanks(address,uint8) (GeniosClub2.sol#971-981)
- GeniosClub2.withdraw() (GeniosClub2.sol#1036-1042)

```
- Users[curRefaddr].G3X7Matrix[level].ReinvestTime = block.  
  ↳ timestamp (GeniosClub2.sol#773)  
GeniosClub2.Users (GeniosClub2.sol#95) can be used in cross  
  ↳ function reentrancies:  
- GeniosClub2.Users (GeniosClub2.sol#95)  
- GeniosClub2._activeUserRank(address,uint8) (Ge  
INFO:Slither:. analyzed (10 contracts with 85 detectors), 121 result(s)  
  ↳ found
```

Conclusion:

Most of the vulnerabilities found by the analysis have already been addressed by the smart contract code review.

5 Conclusion

In this audit, we examined the design and implementation of Genios Club contract and discovered several issues of varying severity. Genios Club Community team addressed all the issues raised in the initial report and implemented the necessary fixes.

The present code base is well-structured and ready for the mainnet.



BLOCKHAT

Security