



**RoyalYieldFarm**



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**Audited project: RoyalYieldFarm**

**Address contract: 0x71D081779408bcb1BF15e476186CB2162274DD9F**

**Compiler Version: v0.8.9+commit.e5eed63a**

**Optimization Enabled: Yes with 200 runs**

**Contract Deployer Address: 0x3740A9085A589eeD7B01d74CaC40d324Aa9A2f68**

**Project website: <https://royalempire.finance/>**

**KYC: no**

**Languages: Solidity (Smart contract)**

**Blockchain: Testnet BSC**

**Audit Team: SECURITY NETWORK**

**<https://securitynetwork.pro/>**

**Audit Date: August 25, 2022**

# SWC Attacks

SWC ID	Title	Status
SWC-100	Function Default Visibility	PASSED
SWC-101	Integer Overflow and Underflow	PASSED
SWC-102	Outdated Compiler Version	PASSED
SWC-103	Floating Pragma	PASSED
SWC-104	Unchecked Call Return Value	PASSED
SWC-105	Unprotected Ether Withdrawal	PASSED
SWC-106	Unprotected SELFDESTRUCT Instruction	PASSED
SWC-107	Reentrancy	PASSED
SWC-108	State Variable Default Visibility	PASSED
SWC-109	Uninitialized Storage Pointer	PASSED
SWC-110	Assert Violation	PASSED
SWC-111	Use of Deprecated Solidity Functions	PASSED
SWC-112	Delegatecall to Untrusted Callee	PASSED
SWC-113	DoS with Failed Call	MEDIUM
SWC-114	Transaction Order Dependence	PASSED
SWC-115	Authorization through tx.origin	PASSED
SWC-116	Block values as a proxy for time	PASSED
SWC-117	Signature Malleability	PASSED
SWC-118	Incorrect Constructor Name	PASSED
SWC-119	Shadowing State Variables	PASSED
SWC-120	Weak Sources of Randomness from Chain Attributes	PASSED
SWC-121	Missing Protection against Signature Replay Attacks	PASSED
SWC-122	Lack of Proper Signature Verification	PASSED
SWC-123	Requirement Violation	PASSED
SWC-124	Write to Arbitrary Storage Location	PASSED
SWC-125	Incorrect Inheritance Order	PASSED
SWC-126	Insufficient Gas Griefing	PASSED
SWC-127	Arbitrary Jump with Function Type Variable	PASSED
SWC-128	DoS With Block Gas Limit	PASSED
SWC-129	Typographical Error	PASSED
SWC-130	Right-To-Left-Override control character (U+202E)	PASSED
SWC-131	Presence of unused variables	PASSED
SWC-132	Unexpected Ether balance	PASSED
SWC-133	Hash Collisions With Multiple Variable Length Arguments	PASSED
SWC-134	Message call with hardcoded gas amount	PASSED
SWC-135	Code With No Effects	PASSED
SWC-136	Unencrypted Private Data On-Chain	PASSED

## Possible additional HIGH risks

No	Issue description.	Status
1	High fees	NO
2	Mint function	NO
3	Max Tx Amount	NO
4	Pause trading without limit	NO
5	Cooldown time for sell without limit	NO
6	Proxy	NO
7	Other risks	NO

**TOTAL**

**HIGH**

**0**

**MEDIUM**

**1**

**LOW**

**0**

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# Conclusion

This smart contract containt medium severity issue:

## 1. SWC-113. Multiple calls are executed in the same transaction.

239 | dev2.transfer(fee);

This call is executed following another call within the same transaction. It is possible that the call never gets executed if a prior call fails permanently. This might be caused intentionally by a malicious callee.

Recomendation:

If possible, refactor the code such that each transaction only executes one external call or make sure that all callees can be trusted (i.e. they're part of your own codebase).

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