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Writing Secured Smart Contracts Quiz

Neri must build the ultimate fortress to stop Hackana! Test your knowledge of smart contract security best practices.

- 1. What is the "Checks-Effects-Interactions" pattern used for?
- A) To make contracts run faster
- B) To prevent reentrancy attacks by updating state before external calls
- C) To allow anyone to call any function
- D) To increase gas costs

Answer: B

Explanation: This pattern helps prevent reentrancy attacks by updating contract state before making external calls.

- 2. What does the nonReentrant modifier from OpenZeppelin do?
- A) Allows multiple calls to the same function at once
- B) Prevents a function from being called again before it finishes
- C) Makes the contract upgradable
- D) Disables all events

Answer: B

Explanation: The nonReentrant modifier blocks reentrant calls, protecting against a common vulnerability.

- 3. Why should you avoid using tx.origin for authentication?
- A) It is more secure than msg.sender
- B) It can be exploited by attackers to bypass security
- C) It saves gas
- D) It is required for ERC-721 contracts

Answer: B

Explanation: tx.origin can be exploited in phishing attacks; use msg.sender for authentication instead.

4. What is a good practice for validating user input in Solidity?

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- A) Trust all input
- B) Use require() or revert() to check conditions
- C) Ignore input validation
- D) Only validate input after state changes

Answer: B

Explanation: Always validate user input with require() or revert() before making state changes.

Awesome! Neri's fortress is now secure against Hackana's most devious exploits.