

Security Assessment

Ai-Tech

CertiK Assessed on May 30th, 2023





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Ai-Tech

The security assessment was prepared by CertiK, the leader in Web3.0 security.

Executive Summary

TYPES ECOSYSTEM METHODS

DeFi Binance Smart Chain Formal Verification, Manual Review, Static Analysis

(BSC)

LANGUAGE TIMELINE KEY COMPONENTS

Solidity Delivered on 05/30/2023 N/A

CODEBASE COMMITS

https://github.com/Decubate-com/AITECH 8926dfc3c7e9076d4a0ea20f306a1317bfa4b85c

...View All

Vulnerability Summary

0	0	0	0	0	0
Total Findings	Resolved	Mitigated	Partially Resolved	Acknowledged	Declined
■ 0 Critical	Critical risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.				
■ 0 Major	Major risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.				
■ 0 Medium	Medium risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform.				
0 Minor	Minor risks can be any of the above, but on a smaller scale. They generally do not compromise the overall integrity of the project, but they may be less efficient than other solutions.				
0 Informational	Informational errors are often practices. They usually do n		improve the style of the code or c ctioning of the code.	ertain operations to fall within	industry best

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Disclaimer



CODEBASE AI-TECH

Repository

https://github.com/Decubate-com/AITECH

Commit

8926dfc3c7e9076d4a0ea20f306a1317bfa4b85c



AUDIT SCOPE | AI-TECH

1 file audited • 1 file without findings

ID	File	SHA256 Checksum
• AIE	src/AITECH.sol	062779503acbdd98701ff74297676157bbbc0 36fa14aff8a9fdf4066570b0497



APPROACH & METHODS | AI-TECH

This report has been prepared for Ai-Tech to discover issues and vulnerabilities in the source code of the Ai-Tech project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Static Analysis and Manual Review techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- · Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Testing the smart contracts against both common and uncommon attack vectors;
- Enhance general coding practices for better structures of source codes;
- · Add enough unit tests to cover the possible use cases;
- · Provide more comments per each function for readability, especially contracts that are verified in public;
- · Provide more transparency on privileged activities once the protocol is live.



REVIEW NOTES | AI-TECH

Decentralization Efforts - Initial Token Distribution

All **2000000000 * 10 ** 18** AITECH tokens are sent to the contract deployer when deploying the contract. This is a potential centralization risk as the deployer can distribute **2000000000 * 10 ** 18** AITECH tokens without the community's consensus.

Recommendations

Recommend transparency by providing a breakdown of the intended initial token distribution in a public location. We also recommend the team make an effort to restrict the access of the corresponding private key.

Ai-Tech Efforts

[Ai-Tech]: The initial supply will be minted and sent to the deployer wallet. These tokens will then be sent to your treasury wallet and partly sent to the vesting contract.

[Ai-Tech, 20230530]: We minted AlTech's new token on BSC and transferred the minted tokens to the multi-sig wallet.

Token contract: https://bscscan.com/address/0x2d060ef4d6bf7f9e5edde373ab735513c0e4f944

[Certik, 20230530]: The team transferred the 2,000,000,000 tokens to the multi-sig wallet in transaction https://bscscan.com/tx/0xab0a68709baf10c924d7a34ff4143075bb2968caacece922ed1036f8e172ca37.

The multi-sig wallet has below owners:

- bnb:0x6406A958C98620fBFB239F270b22FB9f02D630bE
- bnb:0x6c992baC174eD8aA133B0a53F191D0e630C2ECE9

Any transaction requires the confirmation of 2 out of 2 owners.



FORMAL VERIFICATION AI-TECH

Formal guarantees about the behavior of smart contracts can be obtained by reasoning about properties relating to the entire contract (e.g. contract invariants) or to specific functions of the contract. Once such properties are proven to be valid, they guarantee that the contract behaves as specified by the property. As part of this audit, we applied automated formal verification (symbolic model checking) to prove that well-known functions in the smart contracts adhere to their expected behavior.

Considered Functions And Scope

In the following, we provide a description of the properties that have been used in this audit. They are grouped according to the type of contract they apply to.

Verification of ERC-20 Compliance

We verified properties of the public interface of those token contracts that implement the ERC-20 interface. This covers

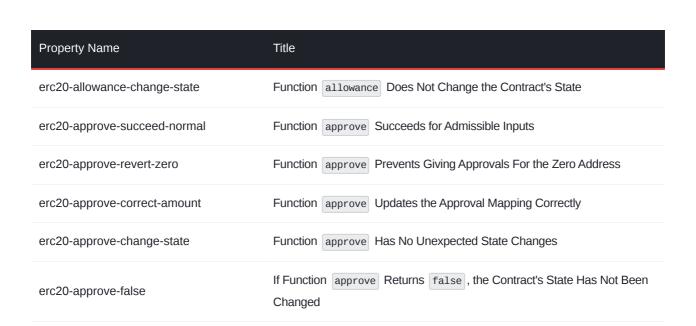
- Functions transfer and transferFrom that are widely used for token transfers,
- functions approve and allowance that enable the owner of an account to delegate a certain subset of her tokens to another account (i.e. to grant an allowance), and
- the functions balanceOf and totalSupply, which are verified to correctly reflect the internal state of the contract.

The properties that were considered within the scope of this audit are as follows:

Property Name	Title
erc20-transfer-revert-zero	Function [transfer] Prevents Transfers to the Zero Address
erc20-transfer-succeed-self	Function [transfer] Succeeds on Admissible Self Transfers
erc20-transfer-succeed-normal	Function [transfer] Succeeds on Admissible Non-self Transfers
erc20-transfer-correct-amount	Function [transfer] Transfers the Correct Amount in Non-self Transfers
erc20-transfer-correct-amount-self	Function [transfer] Transfers the Correct Amount in Self Transfers
erc20-transfer-change-state	Function [transfer] Has No Unexpected State Changes
erc20-transfer-exceed-balance	Function [transfer] Fails if Requested Amount Exceeds Available Balance
erc20-transfer-false	If Function transfer Returns false, the Contract State Has Not Been Changed
erc20-transfer-recipient-overflow	Function [transfer] Prevents Overflows in the Recipient's Balance
erc20-transfer-never-return-false	Function [transfer] Never Returns [false]



Property Name	Title
erc20-transferfrom-revert-from-zero	Function transferFrom Fails for Transfers From the Zero Address
erc20-transferfrom-revert-to-zero	Function [transferFrom] Fails for Transfers To the Zero Address
erc20-transferfrom-succeed-normal	Function transferFrom Succeeds on Admissible Non-self Transfers
erc20-transferfrom-correct-amount	Function transferFrom Transfers the Correct Amount in Non-self Transfers
erc20-transferfrom-succeed-self	Function transferFrom Succeeds on Admissible Self Transfers
erc20-transferfrom-correct-amount-self	Function [transferFrom] Performs Self Transfers Correctly
erc20-transferfrom-fail-exceed-balance	Function transferFrom Fails if the Requested Amount Exceeds the Available Balance
erc20-transferfrom-correct-allowance	Function [transferFrom] Updated the Allowance Correctly
erc20-transferfrom-change-state	Function transferFrom Has No Unexpected State Changes
erc20-transferfrom-fail-exceed-allowance	Function transferFrom Fails if the Requested Amount Exceeds the Available Allowance
erc20-transferfrom-false	If Function transferFrom Returns false, the Contract's State Has Not Been Changed
erc20-totalsupply-succeed-always	Function totalSupply Always Succeeds
erc20-transferfrom-never-return-false	Function [transferFrom] Never Returns [false]
erc20-totalsupply-correct-value	Function totalSupply Returns the Value of the Corresponding State Variable
erc20-totalsupply-change-state	Function totalSupply Does Not Change the Contract's State
erc20-balanceof-succeed-always	Function balance0f Always Succeeds
erc20-transferfrom-fail-recipient-overflow	Function [transferFrom] Prevents Overflows in the Recipient's Balance
erc20-balanceof-correct-value	Function balance0f Returns the Correct Value
erc20-balanceof-change-state	Function balance0f Does Not Change the Contract's State
erc20-allowance-succeed-always	Function allowance Always Succeeds
erc20-allowance-correct-value	Function allowance Returns Correct Value



Verification Results

erc20-approve-never-return-false

For the following contracts, model checking established that each of the properties that were in scope of this audit (see scope) are valid:

Function approve Never Returns false

Detailed Results For Contract AITECH (src/AITECH.sol) In Commit 8926dfc3c7e9076d4a0ea20f306a1317bfa4b85c



Verification of ERC-20 Compliance

Detailed results for function transfer

Property Name	Final Result Remarks
erc20-transfer-revert-zero	• True
erc20-transfer-succeed-self	• True
erc20-transfer-succeed-normal	• True
erc20-transfer-correct-amount	• True
erc20-transfer-correct-amount-self	• True
erc20-transfer-change-state	• True
erc20-transfer-exceed-balance	• True
erc20-transfer-false	• True
erc20-transfer-recipient-overflow	• False
erc20-transfer-never-return-false	• True



Detailed results for function transferFrom

Property Name	Final Result Remarks
erc20-transferfrom-revert-from-zero	True
erc20-transferfrom-revert-to-zero	• True
erc20-transferfrom-succeed-normal	• True
erc20-transferfrom-correct-amount	• True
erc20-transferfrom-succeed-self	• True
erc20-transferfrom-correct-amount-self	• True
erc20-transferfrom-fail-exceed-balance	• True
erc20-transferfrom-correct-allowance	• True
erc20-transferfrom-change-state	• True
erc20-transferfrom-fail-exceed-allowance	• True
erc20-transferfrom-false	• True
erc20-transferfrom-never-return-false	• True
erc20-transferfrom-fail-recipient-overflow	• False

Detailed results for function totalSupply

Property Name	Final Result	Remarks
erc20-totalsupply-succeed-always	• True	
erc20-totalsupply-correct-value	True	
erc20-totalsupply-change-state	• True	



Detailed results for function balanceOf

Property Name	Final Result	Remarks
erc20-balanceof-succeed-always	True	
erc20-balanceof-correct-value	True	
erc20-balanceof-change-state	True	

Detailed results for function allowance

Property Name	Final Result	Remarks
erc20-allowance-succeed-always	True	
erc20-allowance-correct-value	True	
erc20-allowance-change-state	True	

Detailed results for function approve

Property Name	Final Result Remarks	
erc20-approve-succeed-normal	• True	
erc20-approve-revert-zero	• True	
erc20-approve-correct-amount	• True	
erc20-approve-change-state	True	
erc20-approve-false	True	
erc20-approve-never-return-false	True	



APPENDIX AI-TECH

I Finding Categories

Categories Description

Checksum Calculation Method

The "Checksum" field in the "Audit Scope" section is calculated as the SHA-256 (Secure Hash Algorithm 2 with digest size of 256 bits) digest of the content of each file hosted in the listed source repository under the specified commit.

The result is hexadecimal encoded and is the same as the output of the Linux "sha256sum" command against the target file.

Details on Formal Verification

Some Solidity smart contracts from this project have been formally verified using symbolic model checking. Each such contract was compiled into a mathematical model which reflects all its possible behaviors with respect to the property. The model takes into account the semantics of the Solidity instructions found in the contract. All verification results that we report are based on that model.

Technical Description

The model also formalizes a simplified execution environment of the Ethereum blockchain and a verification harness that performs the initialization of the contract and all possible interactions with the contract. Initially, the contract state is initialized non-deterministically (i.e. by arbitrary values) and over-approximates the reachable state space of the contract throughout any actual deployment on chain. All valid results thus carry over to the contract's behavior in arbitrary states after it has been deployed.

Assumptions and Simplifications

The following assumptions and simplifications apply to our model:

- Gas consumption is not taken into account, i.e. we assume that executions do not terminate prematurely because they run out of gas.
- The contract's state variables are non-deterministically initialized before invocation of any function. That ignores contract invariants and may lead to false positives. It is, however, a safe over-approximation.
- The verification engine reasons about unbounded integers. Machine arithmetic is modeled using modular arithmetic based on the bit-width of the underlying numeric Solidity type. This ensures that over- and underflow characteristics are faithfully represented.
- · Certain low-level calls and inline assembly are not supported and may lead to a contract not being formally verified.



 We model the semantics of the Solidity source code and not the semantics of the EVM bytecode in a compiled contract.

Formalism for Property Specification

All properties are expressed in linear temporal logic (LTL). For that matter, we treat each invocation of and each return from a public or an external function as a discrete time step. Our analysis reasons about the contract's state upon entering and upon leaving public or external functions.

Apart from the Boolean connectives and the modal operators "always" (written []) and "eventually" (written), we use the following predicates as atomic propositions. They are evaluated on the contract's state whenever a discrete time step occurs:

- started(f, [cond]) Indicates an invocation of contract function | f | within a state satisfying formula | cond |.
- willsucceed(f, [cond]) Indicates an invocation of contract function f within a state satisfying formula cond and considers only those executions that do not revert.
- finished(f, [cond]) Indicates that execution returns from contract function f in a state satisfying formula cond. Here, formula cond may refer to the contract's state variables and to the value they had upon entering the function (using the old function).
- reverted(f, [cond]) Indicates that execution of contract function [f] was interrupted by an exception in a contract state satisfying formula cond.

The verification performed in this audit operates on a harness that non-deterministically invokes a function of the contract's public or external interface. All formulas are analyzed w.r.t. the trace that corresponds to this function invocation.

Description of the Analyzed ERC-20 Properties

The specifications are designed such that they capture the desired and admissible behaviors of the ERC-20 functions transfer, transferFrom, approve, allowance, balanceOf, and totalSupply. In the following, we list those property specifications.

Properties related to function transfer

erc20-transfer-revert-zero

Function [transfer] Prevents Transfers to the Zero Address. Any call of the form [transfer(recipient, amount)] must fail if the recipient address is the zero address. Specification:

erc20-transfer-succeed-normal

Function transfer Succeeds on Admissible Non-self Transfers. All invocations of the form transfer(recipient, amount) must succeed and return true if



- the recipient address is not the zero address,
- amount does not exceed the balance of address msg.sender,
- transferring amount to the recipient address does not lead to an overflow of the recipient's balance, and
- the supplied gas suffices to complete the call. Specification:

erc20-transfer-succeed-self

Function transfer Succeeds on Admissible Self Transfers. All self-transfers, i.e. invocations of the form transfer(recipient, amount) where the recipient address equals the address in msg.sender must succeed and return true if

- the value in amount does not exceed the balance of msg.sender and
- the supplied gas suffices to complete the call. Specification:

erc20-transfer-correct-amount

Function transfer Transfers the Correct Amount in Non-self Transfers. All non-reverting invocations of transfer(recipient, amount) that return true must subtract the value in amount from the balance of msg.sender and add the same value to the balance of the recipient address. Specification:



Function transfer Transfers the Correct Amount in Self Transfers. All non-reverting invocations of transfer(recipient, amount) that return true and where the recipient address equals msg.sender (i.e. self-transfers) must not change the balance of address msg.sender. Specification:

erc20-transfer-change-state

Function transfer Has No Unexpected State Changes. All non-reverting invocations of transfer(recipient, amount) that return true must only modify the balance entries of the msg.sender and the recipient addresses. Specification:

erc20-transfer-exceed-balance

Function transfer Fails if Requested Amount Exceeds Available Balance. Any transfer of an amount of tokens that exceeds the balance of msg.sender must fail. Specification:

erc20-transfer-recipient-overflow

Function [transfer] Prevents Overflows in the Recipient's Balance. Any invocation of [transfer(recipient, amount)] must fail if it causes the balance of the [recipient] address to overflow. Specification:



erc20-transfer-false

If Function transfer Returns false, the Contract State Has Not Been Changed. If the transfer function in contract contract fails by returning false, it must undo all state changes it incurred before returning to the caller. Specification:

```
[](willSucceed(contract.transfer(to, value)) ==> <>(finished(contract.transfer(to, value), return == false ==> (_balances == old(_balances) && _totalSupply == old(_totalSupply) && _allowances == old(_allowances) && other_state_variables == old(other_state_variables)))))
```

erc20-transfer-never-return-false

Function transfer Never Returns false. The transfer function must never return false to signal a failure. Specification:

```
[](!(finished(contract.transfer, return == false)))
```

Properties related to function transferFrom

erc20-transferfrom-revert-from-zero

Function transferFrom Fails for Transfers From the Zero Address. All calls of the form transferFrom(from, dest, amount) where the from address is zero, must fail. Specification:

```
[](started(contract.transferFrom(from, to, value), from == address(0)) ==>
    <>(reverted(contract.transferFrom) || finished(contract.transferFrom, return ==
        false)))
```

erc20-transferfrom-revert-to-zero

Function [transferFrom] Fails for Transfers To the Zero Address. All calls of the form [transferFrom(from, dest, amount)] where the [dest] address is zero, must fail. Specification:



erc20-transferfrom-succeed-normal

Function [transferFrom] Succeeds on Admissible Non-self Transfers. All invocations of [transferFrom(from, dest, amount)] must succeed and return [true] if

- the value of amount does not exceed the balance of address from,
- the value of amount does not exceed the allowance of msg.sender for address from,
- transferring a value of amount to the address in dest does not lead to an overflow of the recipient's balance, and
- the supplied gas suffices to complete the call. Specification:

erc20-transferfrom-succeed-self

Function transferFrom Succeeds on Admissible Self Transfers. All invocations of transferFrom(from, dest, amount) where the dest address equals the from address (i.e. self-transfers) must succeed and return true if:

- The value of amount does not exceed the balance of address from ,
- the value of amount does not exceed the allowance of msg.sender for address from , and
- the supplied gas suffices to complete the call. Specification:



Function transferFrom Transfers the Correct Amount in Non-self Transfers. All invocations of transferFrom(from, dest, amount) that succeed and that return true subtract the value in amount from the balance of address from and add the same value to the balance of address dest. Specification:

erc20-transferfrom-correct-amount-self

Function transferFrom Performs Self Transfers Correctly. All non-reverting invocations of transferFrom(from, dest, amount) that return true and where the address in from equals the address in dest (i.e. self-transfers) do not change the balance entry of the from address (which equals dest). Specification:

erc20-transferfrom-correct-allowance

Function transferFrom Updated the Allowance Correctly. All non-reverting invocations of transferFrom(from, dest, amount) that return true must decrease the allowance for address msg.sender over address from by the value in amount. Specification:



erc20-transferfrom-change-state

Function transferFrom Has No Unexpected State Changes. All non-reverting invocations of transferFrom(from, dest, amount) that return true may only modify the following state variables:

- The balance entry for the address in dest,
- The balance entry for the address in from ,
- The allowance for the address in msg.sender for the address in from . Specification:

erc20-transferfrom-fail-exceed-balance

Function transferFrom Fails if the Requested Amount Exceeds the Available Balance. Any call of the form transferFrom(from, dest, amount) with a value for amount that exceeds the balance of address from must fail. Specification:

erc20-transferfrom-fail-exceed-allowance

Function transferFrom Fails if the Requested Amount Exceeds the Available Allowance. Any call of the form transferFrom(from, dest, amount) with a value for amount that exceeds the allowance of address msg.sender must fail. Specification:



Function transferFrom Prevents Overflows in the Recipient's Balance. Any call of transferFrom(from, dest, amount) with a value in amount whose transfer would cause an overflow of the balance of address dest must fail. Specification:

erc20-transferfrom-false

If Function [transferFrom] Returns [false], the Contract's State Has Not Been Changed. If [transferFrom] returns [false] to signal a failure, it must undo all incurred state changes before returning to the caller. Specification:

```
[](willSucceed(contract.transferFrom(from, to, value)) ==>
    <>(finished(contract.transferFrom(from, to, value), return == false ==>
        (_balances == old(_balances) && _totalSupply == old(_totalSupply) &&
        _allowances == old(_allowances) && other_state_variables ==
        old(other_state_variables)))))
```

erc20-transferfrom-never-return-false

Function transferFrom Never Returns false. The transferFrom function must never return false. Specification:

```
[](!(finished(contract.transferFrom, return == false)))
```

Properties related to function totalSupply

erc20-totalsupply-succeed-always

Function totalSupply Always Succeeds. The function totalSupply must always succeeds, assuming that its execution does not run out of gas. Specification:

```
[](started(contract.totalSupply) ==> <>(finished(contract.totalSupply)))
```

erc20-totalsupply-correct-value

Function totalSupply Returns the Value of the Corresponding State Variable. The totalSupply function must return the value that is held in the corresponding state variable of contract contract. Specification:



erc20-totalsupply-change-state

Function [totalSupply] Does Not Change the Contract's State. The [totalSupply] function in contract contract must not change any state variables. Specification:

Properties related to function balanceOf

erc20-balanceof-succeed-always

Function balanceOf Always Succeeds. Function balanceOf must always succeed if it does not run out of gas. Specification:

```
[](started(contract.balanceOf) ==> <>(finished(contract.balanceOf)))
```

erc20-balanceof-correct-value

Function balanceOf Returns the Correct Value. Invocations of balanceOf(owner) must return the value that is held in the contract's balance mapping for address owner. Specification:

```
[](willSucceed(contract.balanceOf) ==> <>(finished(contract.balanceOf(owner), return == _balances[owner])))
```

erc20-balanceof-change-state

Function balanceOf Does Not Change the Contract's State. Function balanceOf must not change any of the contract's state variables. Specification:

Properties related to function allowance

erc20-allowance-succeed-always

Function allowance Always Succeeds. Function allowance must always succeed, assuming that its execution does not run out of gas. Specification:

```
[](started(contract.allowance) ==> <>(finished(contract.allowance)))
```



erc20-allowance-correct-value

Function allowance Returns Correct Value. Invocations of allowance (owner, spender) must return the allowance that address spender has over tokens held by address owner. Specification:

erc20-allowance-change-state

Function allowance Does Not Change the Contract's State. Function allowance must not change any of the contract's state variables. Specification:

```
[](willSucceed(contract.allowance(owner, spender)) ==>
    <>(finished(contract.allowance(owner, spender), _totalSupply == old(_totalSupply)
    && _balances == old(_balances) && _allowances == old(_allowances) &&
    other_state_variables == old(other_state_variables))))
```

Properties related to function approve

erc20-approve-revert-zero

Function approve Prevents Giving Approvals For the Zero Address. All calls of the form approve(spender, amount) must fail if the address in spender is the zero address. Specification:

```
[](started(contract.approve(spender, value), spender == address(0)) ==>
  <>(reverted(contract.approve) || finished(contract.approve(spender, value),
    return == false)))
```

erc20-approve-succeed-normal

Function approve Succeeds for Admissible Inputs. All calls of the form approve(spender, amount) must succeed, if

- the address in spender is not the zero address and
- the execution does not run out of gas. Specification:

```
[](started(contract.approve(spender, value), spender != address(0)) ==>
  <>(finished(contract.approve(spender, value), return == true)))
```

erc20-approve-correct-amount

Function approve Updates the Approval Mapping Correctly. All non-reverting calls of the form approve(spender, amount) that return true must correctly update the allowance mapping according to the address msg.sender and the values of spender and amount. Specification:



erc20-approve-change-state

Function approve Has No Unexpected State Changes. All calls of the form approve(spender, amount) must only update the allowance mapping according to the address msg.sender and the values of spender and amount and incur no other state changes. Specification:

```
[](willSucceed(contract.approve(spender, value), spender != address(0) && (p1 !=
    msg.sender || p2 != spender)) ==> <>(finished(contract.approve(spender,
        value), return == true ==> _totalSupply == old(_totalSupply) && _balances
    == old(_balances) && _allowances[p1][p2] == old(_allowances[p1][p2]) &&
    other_state_variables == old(other_state_variables))))
```

erc20-approve-false

If Function approve Returns false, the Contract's State Has Not Been Changed. If function approve returns false to signal a failure, it must undo all state changes that it incurred before returning to the caller. Specification:

```
[](willSucceed(contract.approve(spender, value)) ==>
     <>(finished(contract.approve(spender, value), return == false ==> (_balances ==
        old(_balances) && _totalSupply == old(_totalSupply) && _allowances ==
        old(_allowances) && other_state_variables == old(other_state_variables)))))
```

erc20-approve-never-return-false

Function approve Never Returns false . The function approve must never returns false . Specification:

```
[](!(finished(contract.approve, return == false)))
```



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This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

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CertiK Securing the Web3 World

Founded in 2017 by leading academics in the field of Computer Science from both Yale and Columbia University, CertiK is a leading blockchain security company that serves to verify the security and correctness of smart contracts and blockchain-based protocols. Through the utilization of our world-class technical expertise, alongside our proprietary, innovative tech, we're able to support the success of our clients with best-in-class security, all whilst realizing our overarching vision; provable trust for all throughout all facets of blockchain.

