



S O L I D I T Y . F I N A N C E



Bird.Money Token - Audit Report

S U M M A R Y



Bird.Money (\$BIRD) intends to build an off-chain oracle analytics and lending platform. Their oracle and lending applications are still in development, but they have a live API that analyzes and provides a 0-10 assessment score on provided Ethereum addresses. For this audit, we analyzed the project team's native token contract, deployed at `0x70401dFD142A16dC7031c56E862Fc88Cb9537Ce0`.

Notes of the token contract:

- *No accessible mint functions exist. After deployment, the total*

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- The team has burned tokens since deployment, and the total supply is now 140,000 tokens; about 50% of which are owned by the team. Over 90% of the team's tokens were locked on November 25th for 30, 60, & 90 days; and 5 years (Approximate amount of BIRD tokens, respectively: 4.5k, 27.3k, 4.5k, 13.6k).
- \$250,000 of liquidity (26.7k BIRD + 205 ETH) has been locked in Unicrypt for 6 months. More details on the updated tokenomics are [here](#).
- No owner-restricted functions are present.
- Utilization of SafeMath to prevent overflows.

Audit Findings:

- No security vulnerabilities from external or internal actors were identified.
- Date: December 4th, 2020

AUDIT RESULTS

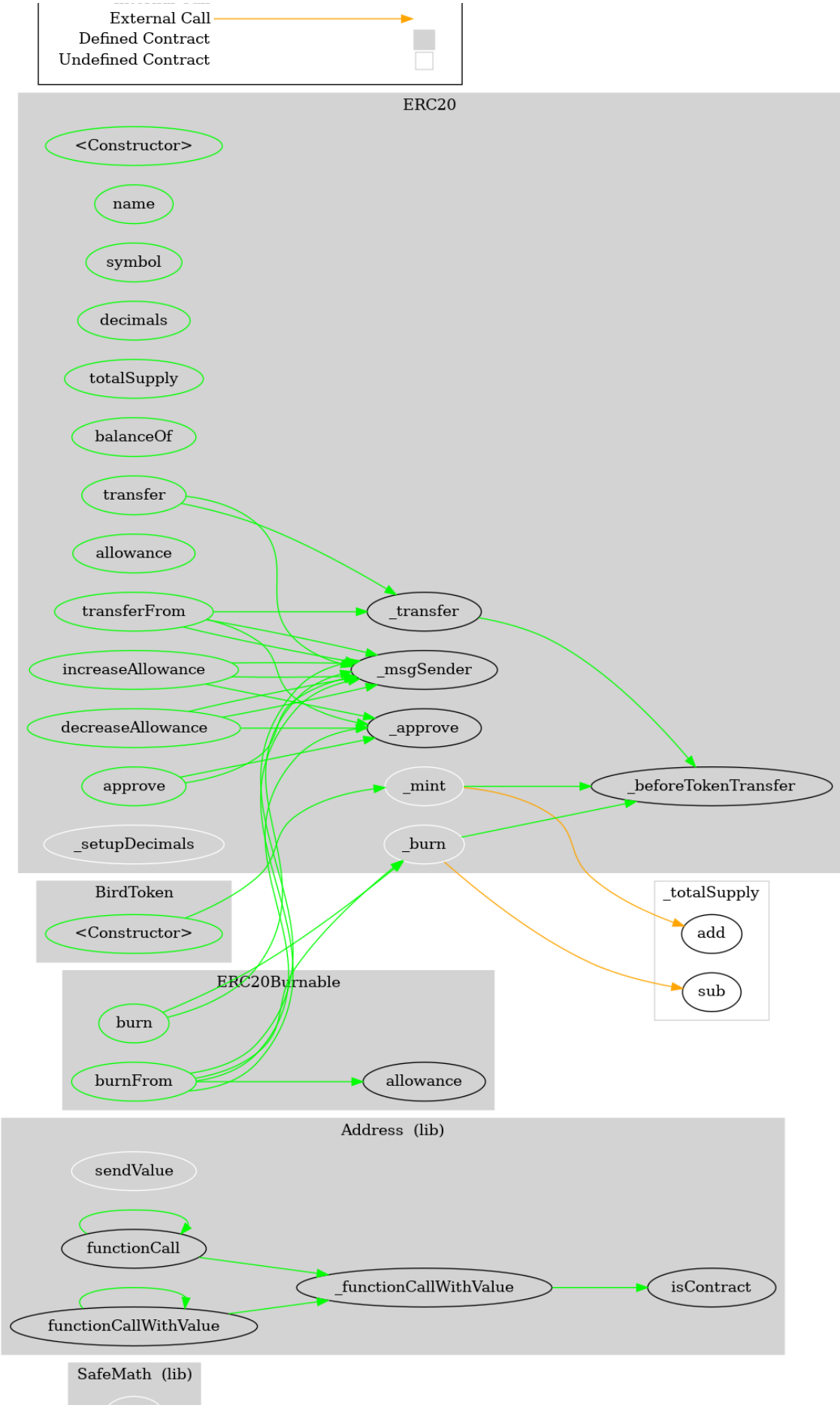
Date: December 4th, 2020

Vulnerability Category	Notes	Result
Arbitrary Storage Write	N/A	PASS
.....	...	PASS

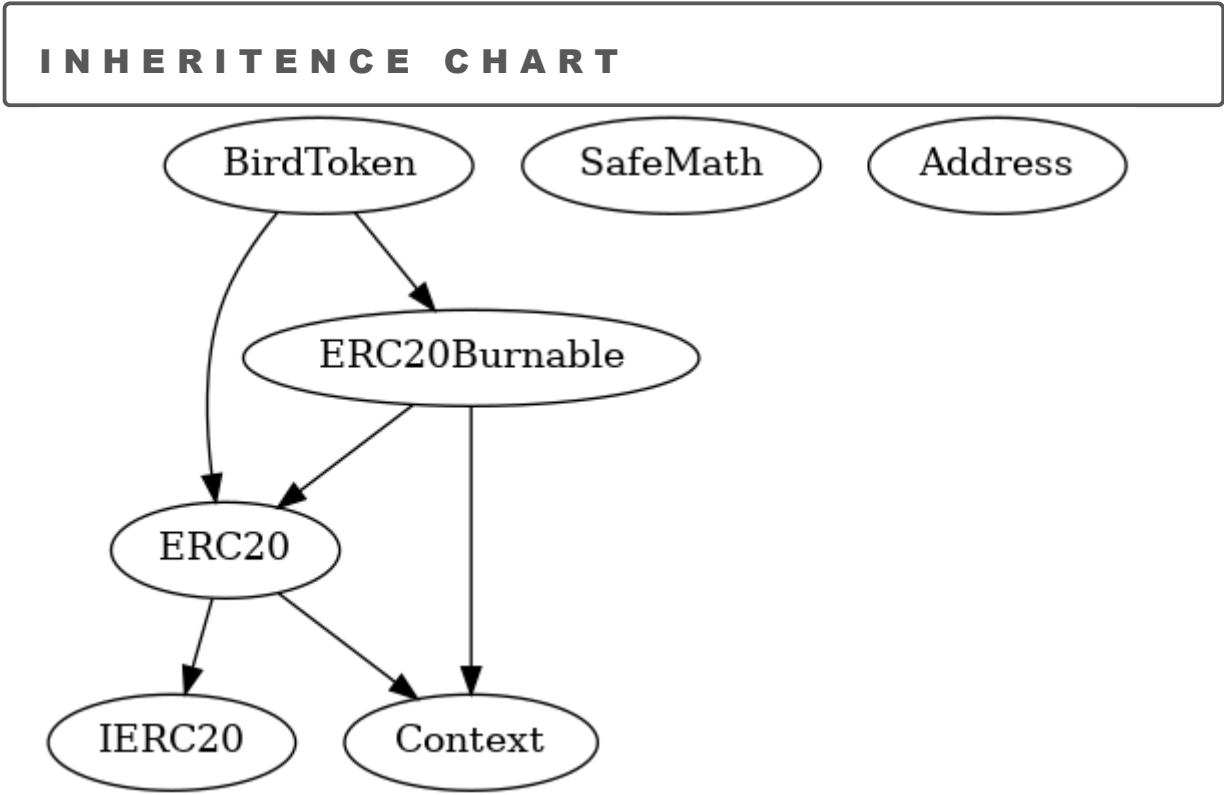
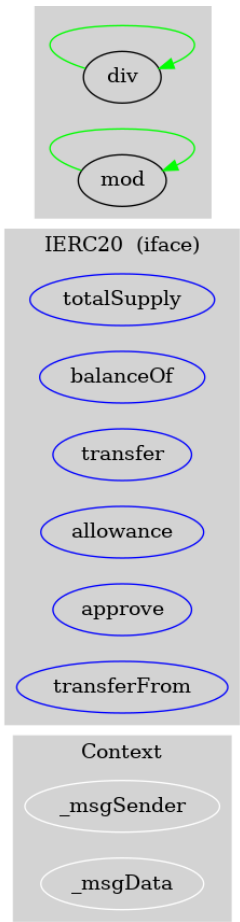
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Vulnerability Category	Notes	Result
Dependence on Predictable Variables	N/A	PASS
Deprecated Opcodes	N/A	PASS
Ether Thief	N/A	PASS
Exceptions	N/A	PASS
External Calls	N/A	PASS
Integer Over/Underflow	N/A	PASS
Multiple Sends	N/A	PASS
Suicide	N/A	PASS
State Change External Calls	N/A	Pass
Unchecked Retval	N/A	PASS
User Supplied Assertion	N/A	PASS
Critical Solidity Compiler	N/A	PASS
Overall Contract Safety		PASS

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```

($) = payable function
# = non-constant function

```

```

Int = Internal
Ext = External
Pub = Public

```

```

+ Context
  - [Int] _msgSender
  - [Int] _msgData

+ [Int] IERC20
  - [Ext] totalSupply
  - [Ext] balanceOf
  - [Ext] transfer #
  - [Ext] allowance
  - [Ext] approve #
  - [Ext] transferFrom #

+ [Lib] SafeMath
  - [Int] add
  - [Int] sub
  - [Int] sub
  - [Int] mul
  - [Int] div
  - [Int] div
  - [Int] mod
  - [Int] mod

```

```

+ [Lib] Address

```

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```

- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Prv] _functionCallWithValue #

+ ERC20 (Context, IERC20)
- [Pub] #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Int] _transfer #
- [Int] _mint #
- [Int] _burn #
- [Int] _approve #
- [Int] _setupDecimals #
- [Int] _beforeTokenTransfer #

+ ERC20Burnable (Context, ERC20)
- [Pub] burn #
- [Pub] burnFrom #

+ BirdToken (ERC20, ERC20Burnable)
- [Pub] #

```

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SOURCE CODE

Click here to download the source code as a .sol file.

```

/*
    $$$$$$$$ \ $$ \                $$ \    $$ \
    $$  __ $$ \ \__ |                $$ |    $$$ \
    $$ |  $$ | $$$ \ $$$$$$ \    $$$$$$ |    $$$ \  $
    $$$$$$ \ |$$ | $$  __ $$ \ $$  __ $$ |    $$ \ $$ \ $$
    $$  __ $$ \ $$ | $$ |  \__ | $$ /  $$ |    $$ \ $$$
    $$ |  $$ | $$ | $$ |      $$ |  $$ |    $$ | \ $
    $$$$$$  |$$ | $$ |      \$$$$$$$ | $$ \  $$ | \_ /
    \_____/ \__ | \__ |      \_____/ \__ | \__ |

    */

// Bird.Money Token $BIRD
// © 2020 Bird Money
// SPDX-License-Identifier: MIT

pragma solidity 0.6.12;

/*
    * @dev Provides information about the current execu

```

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```

* paying for execution may not be the actual sender
* is concerned).
*
* This contract is only required for intermediate,
*/
abstract contract Context {
    function _msgSender() internal view virtual returns (address)
        return msg.sender;
    }

    function _msgData() internal view virtual returns (bytes calldata)
        this; // silence state mutability warning with pure functions
        return msg.data;
    }
}

/**
 * @dev Interface of the ERC20 standard as defined in the EIP.
 */
interface IERC20 {
    /**
     * @dev Returns the amount of tokens in existence.
     */
    function totalSupply() external view returns (uint256);

    /**
     * @dev Returns the amount of tokens owned by `account`.
     */
    function balanceOf(address account) external view returns (uint256);
}

```

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```

*
* Returns a boolean value indicating whether th
*
* Emits a {Transfer} event.
*/
function transfer(address recipient, uint256 amo

/**
* @dev Returns the remaining number of tokens t
* allowed to spend on behalf of `owner` through
* zero by default.
*
* This value changes when {approve} or {transfe
*/
function allowance(address owner, address spende

/**
* @dev Sets `amount` as the allowance of `spend
*
* Returns a boolean value indicating whether th
*
* IMPORTANT: Beware that changing an allowance
* that someone may use both the old and the new
* transaction ordering. One possible solution t
* condition is to first reduce the spender's al
* desired value afterwards:
* https://github.com/ethereum/EIPs/issues/20#is
*
* Emits an {Approval} event.
*/
function approve(address spender, uint256 amount

```

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```

    * allowance mechanism. `amount` is then deducted
    * allowance.
    *
    * Returns a boolean value indicating whether the
    *
    * Emits a {Transfer} event.
    */
function transferFrom(address sender, address recipient,
    uint256 amount) public {
    /**
     * @dev Emitted when `value` tokens are moved from one
     * account to another (`to`).
     *
     * Note that `value` may be zero.
     */
    event Transfer(address indexed from, address indexed to,
        uint256 value);
    /**
     * @dev Emitted when the allowance of a `spender` for
     * this `owner` is set by a call to {approve}. `value` is the new allowance.
     */
    event Approval(address indexed owner, address indexed spender,
        uint256 value);
}

/**
 * @dev Wrappers over Solidity's arithmetic operations
 * with built-in overflow checks.
 *
 * Arithmetic operations in Solidity wrap on overflow. This can
 * easily result in bugs, because programmers usually assume that
 * an overflow errors. Which is the standard behavior in high level

```

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```

* Using this library instead of the unchecked opera
* class of bugs, so it's recommended to use it alwa
*/
library SafeMath {
    /**
     * @dev Returns the addition of two unsigned int
     * overflow.
     *
     * Counterpart to Solidity's `+` operator.
     *
     * Requirements:
     *
     * - Addition cannot overflow.
     */
    function add(uint256 a, uint256 b) internal pure
        uint256 c = a + b;
        require(c >= a, "SafeMath: addition overflow

        return c;
    }

    /**
     * @dev Returns the subtraction of two unsigned
     * overflow (when the result is negative).
     *
     * Counterpart to Solidity's `-` operator.
     *
     * Requirements:
     *
     * - Subtraction cannot overflow.
     */

```

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```
/**
 * @dev Returns the subtraction of two unsigned
 * overflow (when the result is negative).
 *
 * Counterpart to Solidity's `-` operator.
 *
 * Requirements:
 *
 * - Subtraction cannot overflow.
 */
function sub(uint256 a, uint256 b, string memory
    require(b <= a, errorMessage);
    uint256 c = a - b;

    return c;
}

/**
 * @dev Returns the multiplication of two unsigned
 * overflow.
 *
 * Counterpart to Solidity's `*` operator.
 *
 * Requirements:
 *
 * - Multiplication cannot overflow.
 */
function mul(uint256 a, uint256 b) internal pure
    // Gas optimization: this is cheaper than re
    // benefit is lost if 'b' is also tested.
```

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```

    }

    uint256 c = a * b;
    require(c / a == b, "SafeMath: multiplication overflow");

    return c;
}

/**
 * @dev Returns the integer division of two unsigned integers. The result is rounded towards zero.
 *
 * Counterpart to Solidity's `/` operator. Note: this function uses a `revert` opcode (which leaves remaining gas untouched)
 * uses an invalid opcode to revert (consuming no remaining gas).
 *
 * Requirements:
 *
 * - The divisor cannot be zero.
 */
function div(uint256 a, uint256 b) internal pure returns (uint256) {
    return div(a, b, "SafeMath: division by zero");
}

/**
 * @dev Returns the integer division of two unsigned integers. The result is rounded towards zero.
 *
 * Counterpart to Solidity's `/` operator. Note: this function uses a `revert` opcode (which leaves remaining gas untouched)
 * uses an invalid opcode to revert (consuming no remaining gas).
 */

```

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```

    * - The divisor cannot be zero.
    */

function div(uint256 a, uint256 b, string memory errorMessage)
    require(b > 0, errorMessage);
    uint256 c = a / b;
    // assert(a == b * c + a % b); // There is no need for this

    return c;
}

/**
 * @dev Returns the remainder of dividing two unsigned integers: [a] divided by [b] with a remainder of [r] (i.e. [a] == [b] * [q] + [r]). The first argument [a] must be greater than 0. The divisor [b] must be greater than 0. Reverts when dividing by zero.
 *
 * Counterpart to Solidity's `%` operator. This function is not marked as `pure` (as opposed to the Solidity builtin function) as it requires a reverts when the divisor is zero so that the caller does not have to restore the gas of a failed operation.
 *
 * Requirements:
 *
 * - The divisor cannot be zero.
 */
function mod(uint256 a, uint256 b) internal pure returns (uint256)
{
    return mod(a, b, "SafeMath: modulo by zero")
}

/**
 * @dev Returns the remainder of dividing two unsigned integers: [a] divided by [b] with a remainder of [r] (i.e. [a] == [b] * [q] + [r]). The first argument [a] must be greater than 0. The divisor [b] must be greater than 0. Reverts with custom message when dividing by zero.
 *
 * Counterpart to Solidity's `%` operator. This function is not marked as `pure` (as opposed to the Solidity builtin function) as it requires a reverts when the divisor is zero so that the caller does not have to restore the gas of a failed operation.

```

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```

    * Requirements:
    *
    * - The divisor cannot be zero.
    */
function mod(uint256 a, uint256 b, string memory
    require(b != 0, errorMessage);
    return a % b;
}
}

/**
 * @dev Collection of functions related to the address
 */
library Address {
    /**
     * @dev Returns true if `account` is a contract.
     *
     * [IMPORTANT]
     * ====
     * It is unsafe to assume that an address for which
     * false is an externally-owned account (EOA) and
     *
     * Among others, `isContract` will return false
     * types of addresses:
     *
     * - an externally-owned account
     * - a contract in construction
     * - an address where a contract will be created
     * - an address where a contract lived, but was
     *
     * ====
     */
}

```

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```

        // for accounts without code, i.e. `keccak256`
        bytes32 codehash;
        bytes32 accountHash = 0xc5d2460186f7233c927e7db2cc70310e901b78644c7a4e2110c0000000000000000;
        // solhint-disable-next-line no-inline-assembly
        assembly { codehash := extcodehash(account) }
        return (codehash != accountHash && codehash != 0)
    }

    /**
     * @dev Replacement for Solidity's `transfer`: sends `amount` wei to
     * `recipient`, forwarding all available gas and reverting on errors (
     * i.e. `no-throw`. It will only revert on reverted custom contracts when
     * compiled with the `--revert-packages` flag.
     * https://eips.ethereum.org/EIPS/eip-1884[EIP1884]
     * of certain opcodes, possibly making contracts' state不可达.
     * imposed by `transfer`, making them unable to receive ether via
     * `transfer`. {sendValue} removes this limitation.
     * https://diligence.consensys.net/posts/2019/09/consensys-ether-implementation/consensus-eth-implementation/
     * IMPORTANT: because control is transferred to `recipient`, care must
     * be taken to not create reentrancy vulnerabilities. Consider using
     * {ReentrancyGuard} or the
     * https://solidity.readthedocs.io/en/v0.5.11/security-considerations.html#use-the-checks-effects-interactions-pattern
     */
    function sendValue(address payable recipient, uint256 amount) private {
        require(address(this).balance >= amount, "Address: insufficient balance")

        // solhint-disable-next-line avoid-low-level-calls
        (bool success, ) = recipient.call{ value: amount }("");
        require(success, "Address: unable to send value, Ether may be locked")
    }

```

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```

* plain`call` is an unsafe replacement for a fu
* function instead.
*
* If `target` reverts with a revert reason, it
* function (like regular Solidity function call
*
* Returns the raw returned data. To convert to
* use https://solidity.readthedocs.io/en/latest
*
* Requirements:
*
* - `target` must be a contract.
* - calling `target` with `data` must not rever
*
* _Available since v3.1._
*/
function functionCall(address target, bytes memo
    return functionCall(target, data, "Address: lo
}

/**
 * @dev Same as {xref-Address-functionCall-addre
 * `errorMessage` as a fallback revert reason wh
 *
 * _Available since v3.1._
 */
function functionCall(address target, bytes memo
    return _functionCallWithValue(target, data,
}

/**

```

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```

* Requirements:
*
* - the calling contract must have an ETH balance
* - the called Solidity function must be `payable`
*
* _Available since v3.1._
*/

function functionCallWithValue(address target, bytes memory data, uint value) public {
    return functionCallWithValue(target, data, value, true);
}

/**
 * @dev Same as {xref-Address-functionCallWithValue} but
 * with `errorMessage` as a fallback revert reason when
 * the target is not a contract
 *
 * _Available since v3.1._
 */
function functionCallWithValue(address target, bytes memory data, uint value, bool isContract) public {
    require(address(this).balance >= value, "Address: insufficient balance");
    return _functionCallWithValue(target, data, value, isContract);
}

function _functionCallWithValue(address target, bytes memory data, uint value, bool isContract) private {
    require(isContract(target), "Address: call to non-contract");

    // solhint-disable-next-line avoid-low-level-calls
    (bool success, bytes memory returndata) = target.call{value: value}(data);
    if (success) {
        return returndata;
    } else {
        // Look for revert reason and bubble it up
    }
}

```

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```

* allowances. See {IERC20-approve}.
*/

contract ERC20 is Context, IERC20 {
    using SafeMath for uint256;
    using Address for address;

    mapping (address => uint256) private _balances;

    mapping (address => mapping (address => uint256)

    uint256 private _totalSupply;

    string private _name;
    string private _symbol;
    uint8 private _decimals;

    /**
     * @dev Sets the values for {name} and {symbol},
     * a default value of 18.
     *
     * To select a different value for {decimals}, u
     *
     * All three of these values are immutable: they
     * construction.
     */
    constructor (string memory name, string memory s
        _name = name;
        _symbol = symbol;
        _decimals = 18;
    }

```

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```

    */
function name() public view returns (string memo
    return _name;
}

/**
 * @dev Returns the symbol of the token, usually
 * name.
 */
function symbol() public view returns (string me
    return _symbol;
}

/**
 * @dev Returns the number of decimals used to g
 * For example, if `decimals` equals `2`, a bala
 * be displayed to a user as `5,05` ( $505 / 10 \times$ 
 *
 * Tokens usually opt for a value of 18, imitati
 * Ether and Wei. This is the value {ERC20} uses
 * called.
 *
 * NOTE: This information is only used for _disp
 * no way affects any of the arithmetic of the c
 * {IERC20-balanceOf} and {IERC20-transfer}.
 */
function decimals() public view returns (uint8)
    return _decimals;
}

/**

```

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```
        return _totalSupply;
    }

    /**
     * @dev See {IERC20-balanceOf}.
     */
    function balanceOf(address account) public view
        return _balances[account];
    }

    /**
     * @dev See {IERC20-transfer}.
     *
     * Requirements:
     *
     * - `recipient` cannot be the zero address.
     * - the caller must have a balance of at least
     */
    function transfer(address recipient, uint256 amount)
        _transfer(_msgSender(), recipient, amount);
    return true;
    }

    /**
     * @dev See {IERC20-allowance}.
     */
    function allowance(address owner, address spender)
        return _allowances[owner][spender];
    }

    /**
```

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```

*
* - `spender` cannot be the zero address.
*/
function approve(address spender, uint256 amount
    _approve(_msgSender(), spender, amount);
    return true;
}

/**
 * @dev See {IERC20-transferFrom}.
 *
 * Emits an {Approval} event indicating the update
 * required by the EIP. See the note at the beginning
 *
 * Requirements:
 * - `sender` and `recipient` cannot be the zero address
 * - `sender` must have a balance of at least `amount`
 * - the caller must have allowance for `spender` to spend
 *   `amount` from `sender`.
 */
function transferFrom(address sender, address recipient,
    _transfer(sender, recipient, amount);
    _approve(sender, _msgSender(), _allowances[sender][_msgSender()],
    return true;
}

/**
 * @dev Atomically increases the allowance granted to `spender` by the
 * caller. This is an alternative to {approve} that can be used when
 * problems described in {IERC20-approve} are concerned.

```

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```

* Requirements:
*
* - `spender` cannot be the zero address.
*/
function increaseAllowance(address spender, uint
    _approve(_msgSender(), spender, _allowances[
    return true;
}

/**
 * @dev Atomically decreases the allowance grant
 *
 * This is an alternative to {approve} that can
 * problems described in {IERC20-approve}.
 *
 * Emits an {Approval} event indicating the upda
 *
 * Requirements:
 *
 * - `spender` cannot be the zero address.
 * - `spender` must have allowance for the calle
 * `subtractedValue`.
 */
function decreaseAllowance(address spender, uint
    _approve(_msgSender(), spender, _allowances[
    return true;
}

/**
 * @dev Moves tokens `amount` from `sender` to `
 *
```

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```

* Emits a {Transfer} event.
*
* Requirements:
*
* - `sender` cannot be the zero address.
* - `recipient` cannot be the zero address.
* - `sender` must have a balance of at least `a
*/

function _transfer(address sender, address recip
    require(sender != address(0), "ERC20: transf
    require(recipient != address(0), "ERC20: tra

    _beforeTokenTransfer(sender, recipient, amou

    _balances[sender] = _balances[sender].sub(am
    _balances[recipient] = _balances[recipient].
    emit Transfer(sender, recipient, amount);
}

/** @dev Creates `amount` tokens and assigns the
* the total supply.
*
* Emits a {Transfer} event with `from` set to t
*
* Requirements
*
* - `to` cannot be the zero address.
*/

function _mint(address account, uint256 amount)
    require(account != address(0), "ERC20: mint

```

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```

        _balances[account] = _balances[account].add(
            amount);
        emit Transfer(address(0), account, amount);
    }

    /**
     * @dev Destroys `amount` tokens from `account`,
     *      reducing the
     *      total supply.
     *
     * Emits a {Transfer} event with `to` set to the
     *      zero address.
     *
     * Requirements
     *
     * - `account` cannot be the zero address.
     * - `account` must have at least `amount` tokens.
     */
    function _burn(address account, uint256 amount)
        internal {
        require(account != address(0), "ERC20: burn to the zero address");

        _beforeTokenTransfer(account, address(0), amount);

        _balances[account] = _balances[account].sub(
            amount);
        _totalSupply = _totalSupply.sub(amount);
        emit Transfer(account, address(0), amount);
    }

    /**
     * @dev Sets `amount` as the allowance of `spender` over
     *      `owner`'s tokens,
     *      if `owner` is the zero address, it is
     *      approved for all
     *      tokens.
     *
     * This is internal function is equivalent to `approve`,
     *      but with the following
     *      differences:
     *
     * - `owner` can be the zero address.
     * - `spender` must be
     *      able to transfer
     *      the full
     *      `amount` of
     *      tokens.
     *
     * e.g. set automatic
     *      allowances for
     *      certain
     *      sub-accounts
     */

```

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```

*
* - `owner` cannot be the zero address.
* - `spender` cannot be the zero address.
*/
function _approve(address owner, address spender
    require(owner != address(0), "ERC20: approve
    require(spender != address(0), "ERC20: appro

    _allowances[owner][spender] = amount;
    emit Approval(owner, spender, amount);
}

/**
 * @dev Sets {decimals} to a value other than th
 *
 * WARNING: This function should only be called
 * applications that interact with token contrac
 * {decimals} to ever change, and may work incor
 */
function _setupDecimals(uint8 decimals_) interna
    _decimals = decimals_;
}

/**
 * @dev Hook that is called before any transfer
 * minting and burning.
 *
 * Calling conditions:
 *
 * - when `from` and `to` are both non-zero, `am
 * will be to transferred to `to`.

```

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```

*

* To learn more about hooks, head to xref:ROOT:
*/

function _beforeTokenTransfer(address from, addr
}

/**
 * @dev Extension of {ERC20} that allows token holde
 * tokens and those that they have an allowance for,
 * recognized off-chain (via event analysis).
 */
abstract contract ERC20Burnable is Context, ERC20 {
    /**
     * @dev Destroys `amount` tokens from the caller
     *
     * See {ERC20-_burn}.
     */
    function burn(uint256 amount) public virtual {
        _burn(_msgSender(), amount);
    }

    /**
     * @dev Destroys `amount` tokens from `account`,
     * allowance.
     *
     * See {ERC20-_burn} and {ERC20-allowance}.
     *
     * Requirements:
     *
     * - the caller must have allowance for ``accoun
     * `amount`.

```

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```
_approve(account, _msgSender(), decreasedAll  
             buy(account, amount);
```

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