

```
/**
 * Official Minted On October 31 2021, 15:05 GMT
 * Tj*
 */
```

```
//SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
```

```
/**
 * SAFEMATH LIBRARY
 */
```

```
library SafeMath {
```

```
    function tryAdd(uint256 a, uint256 b) internal pure returns (bool, uint256) {
        unchecked {
            uint256 c = a + b;
            if (c < a) return (false, 0);
            return (true, c);
        }
    }
```

```
    function trySub(uint256 a, uint256 b) internal pure returns (bool, uint256) {
        unchecked {
            if (b > a) return (false, 0);
            return (true, a - b);
        }
    }
```

```
    function tryMul(uint256 a, uint256 b) internal pure returns (bool, uint256) {
        unchecked {
            // Gas optimization: this is cheaper than requiring 'a' not being zero, but the
            // benefit is lost if 'b' is also tested.
            // See: https://github.com/OpenZeppelin/openzeppelin-contracts/pull/522
            if (a == 0) return (true, 0);
            uint256 c = a * b;
            if (c / a != b) return (false, 0);
            return (true, c);
        }
    }
```

```
    function tryDiv(uint256 a, uint256 b) internal pure returns (bool, uint256) {
        unchecked {
            if (b == 0) return (false, 0);
            return (true, a / b);
        }
    }
```

```
    function tryMod(uint256 a, uint256 b) internal pure returns (bool, uint256) {
        unchecked {
            if (b == 0) return (false, 0);
            return (true, a % b);
        }
    }
```

```
    function add(uint256 a, uint256 b) internal pure returns (uint256) {
        return a + b;
    }
```

```

function sub(uint256 a, uint256 b) internal pure returns (uint256) {
    return a - b;
}

function mul(uint256 a, uint256 b) internal pure returns (uint256) {
    return a * b;
}

function div(uint256 a, uint256 b) internal pure returns (uint256) {
    return a / b;
}

function mod(uint256 a, uint256 b) internal pure returns (uint256) {
    return a % b;
}

function sub(uint256 a, uint256 b, string memory errorMessage) internal pure returns (uint256) {
    unchecked {
        require(b <= a, errorMessage);
        return a - b;
    }
}

function div(uint256 a, uint256 b, string memory errorMessage) internal pure returns (uint256) {
    unchecked {
        require(b > 0, errorMessage);
        return a / b;
    }
}

function mod(uint256 a, uint256 b, string memory errorMessage) internal pure returns (uint256)
{
    unchecked {
        require(b > 0, errorMessage);
        return a % b;
    }
}

interface IBEP20 {
    function totalSupply() external view returns (uint256);
    function decimals() external view returns (uint8);
    function symbol() external view returns (string memory);
    function name() external view returns (string memory);
    function getOwner() external view returns (address);
    function balanceOf(address account) external view returns (uint256);
    function transfer(address recipient, uint256 amount) external returns (bool);
    function allowance(address _owner, address spender) external view returns (uint256);
    function approve(address spender, uint256 amount) external returns (bool);
    function transferFrom(address sender, address recipient, uint256 amount) external returns
(bool);
    event Transfer(address indexed from, address indexed to, uint256 value);
    event Approval(address indexed owner, address indexed spender, uint256 value);
}

abstract contract Auth {
    address internal owner;
    mapping (address => bool) internal authorizations;

```

```

constructor(address _owner) {
    owner = _owner;
    authorizations[_owner] = true;
}

/**
 * Function modifier to require caller to be contract owner
 */
modifier onlyOwner() {
    require(isOwner(msg.sender), "!OWNER"); _;
}

/**
 * Function modifier to require caller to be authorized
 */
modifier authorized() {
    require(isAuthorized(msg.sender), "!AUTHORIZED"); _;
}

/**
 * Authorize address. Owner only
 */
function authorize(address adr) public onlyOwner {
    authorizations[adr] = true;
}

/**
 * Remove address' authorization. Owner only
 */
function unauthorize(address adr) public onlyOwner {
    authorizations[adr] = false;
}

/**
 * Check if address is owner
 */
function isOwner(address account) public view returns (bool) {
    return account == owner;
}

/**
 * Return address' authorization status
 */
function isAuthorized(address adr) public view returns (bool) {
    return authorizations[adr];
}

/**
 * Transfer ownership to new address. Caller must be owner. Leaves old owner authorized
 */
function transferOwnership(address payable adr) public onlyOwner {
    owner = adr;
    authorizations[adr] = true;
    emit OwnershipTransferred(adr);
}

event OwnershipTransferred(address owner);
}

interface IDEXFactory {

```

```

    function createPair(address tokenA, address tokenB) external returns (address pair);
}

interface IDEXRouter {
    function factory() external pure returns (address);
    function WETH() external pure returns (address);

    function addLiquidity(
        address tokenA,
        address tokenB,
        uint amountADesired,
        uint amountBDesired,
        uint amountAMin,
        uint amountBMin,
        address to,
        uint deadline
    ) external returns (uint amountA, uint amountB, uint liquidity);

    function addLiquidityETH(
        address token,
        uint amountTokenDesired,
        uint amountTokenMin,
        uint amountETHMin,
        address to,
        uint deadline
    ) external payable returns (uint amountToken, uint amountETH, uint liquidity);

    function swapExactTokensForTokensSupportingFeeOnTransferTokens(
        uint amountIn,
        uint amountOutMin,
        address[] calldata path,
        address to,
        uint deadline
    ) external;

    function swapExactETHForTokensSupportingFeeOnTransferTokens(
        uint amountOutMin,
        address[] calldata path,
        address to,
        uint deadline
    ) external payable;

    function swapExactTokensForETHSupportingFeeOnTransferTokens(
        uint amountIn,
        uint amountOutMin,
        address[] calldata path,
        address to,
        uint deadline
    ) external;
}

interface IDividendDistributor {
    function setDistributionCriteria(uint256 _minPeriod, uint256 _minDistribution) external;
    function setShare(address shareholder, uint256 amount) external;
    function deposit() external payable;
    function process(uint256 gas) external;
}

contract DividendDistributor is IDividendDistributor {
    using SafeMath for uint256;

```

```

address _token;

struct Share {
    uint256 amount;
    uint256 totalExcluded;
    uint256 totalRealised;
}

IBEP20 BUSD = IBEP20(0xe9e7CEA3DedcA5984780Bafc599bD69ADd087D56);
address WBNB = 0xbb4CdB9CBd36B01bD1cBaEBF2De08d9173bc095c;
IDEXRouter router;

address[] shareholders;
mapping (address => uint256) shareholderIndexes;
mapping (address => uint256) shareholderClaims;

mapping (address => Share) public shares;

uint256 public totalShares;
uint256 public totalDividends;
uint256 public totalDistributed;
uint256 public dividendsPerShare;
uint256 public dividendsPerShareAccuracyFactor = 10 ** 36;

uint256 public minPeriod = 1 hours;
uint256 public minDistribution = 1 * (10 ** 18);

uint256 currentIndex;

bool initialized;
modifier initialization() {
    require(!initialized);
    _;
    initialized = true;
}

modifier onlyToken() {
    require(msg.sender == _token); _;
}

constructor (address _router) {
    router = _router != address(0)
        ? IDEXRouter(_router)
        : IDEXRouter(0x10ED43C718714eb63d5aA57B78B54704E256024E);
    _token = msg.sender;
}

function setDistributionCriteria(uint256 _minPeriod, uint256 _minDistribution) external override
onlyToken {
    minPeriod = _minPeriod;
    minDistribution = _minDistribution;
}

function setShare(address shareholder, uint256 amount) external override onlyToken {
    if(shares[shareholder].amount > 0){
        distributeDividend(shareholder);
    }

    if(amount > 0 && shares[shareholder].amount == 0){

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        addShareholder(shareholder);
    }else if(amount == 0 && shares[shareholder].amount > 0){
        removeShareholder(shareholder);
    }

    totalShares = totalShares.sub(shares[shareholder].amount).add(amount);
    shares[shareholder].amount = amount;
    shares[shareholder].totalExcluded = getCumulativeDividends(shares[shareholder].amount);
}

function deposit() external payable override onlyToken {
    uint256 balanceBefore = BUSD.balanceOf(address(this));

    address[] memory path = new address[](2);
    path[0] = WBNB;
    path[1] = address(BUSD);

    router.swapExactETHForTokensSupportingFeeOnTransferTokens{value: msg.value}(
        0,
        path,
        address(this),
        block.timestamp
    );

    uint256 amount = BUSD.balanceOf(address(this)).sub(balanceBefore);

    totalDividends = totalDividends.add(amount);
    dividendsPerShare =
dividendsPerShare.add(dividendsPerShareAccuracyFactor.mul(amount).div(totalShares));
}

function process(uint256 gas) external override onlyToken {
    uint256 shareholderCount = shareholders.length;

    if(shareholderCount == 0) { return; }

    uint256 gasUsed = 0;
    uint256 gasLeft = gasleft();

    uint256 iterations = 0;

    while(gasUsed < gas && iterations < shareholderCount) {
        if(currentIndex >= shareholderCount){
            currentIndex = 0;
        }

        if(shouldDistribute(shareholders[currentIndex])){
            distributeDividend(shareholders[currentIndex]);
        }

        gasUsed = gasUsed.add(gasLeft.sub(gasleft()));
        gasLeft = gasleft();
        currentIndex++;
        iterations++;
    }
}

function shouldDistribute(address shareholder) internal view returns (bool) {
    return shareholderClaims[shareholder] + minPeriod < block.timestamp
    && getUnpaidEarnings(shareholder) > minDistribution;
}

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}

function distributeDividend(address shareholder) internal {
    if(shares[shareholder].amount == 0){ return; }

    uint256 amount = getUnpaidEarnings(shareholder);
    if(amount > 0){
        totalDistributed = totalDistributed.add(amount);
        BUSD.transfer(shareholder, amount);
        shareholderClaims[shareholder] = block.timestamp;
        shares[shareholder].totalRealised = shares[shareholder].totalRealised.add(amount);
        shares[shareholder].totalExcluded = getCumulativeDividends(shares[shareholder].amount);
    }
}

function claimDividend() external {
    distributeDividend(msg.sender);
}

function getUnpaidEarnings(address shareholder) public view returns (uint256) {
    if(shares[shareholder].amount == 0){ return 0; }

    uint256 shareholderTotalDividends = getCumulativeDividends(shares[shareholder].amount);
    uint256 shareholderTotalExcluded = shares[shareholder].totalExcluded;

    if(shareholderTotalDividends <= shareholderTotalExcluded){ return 0; }

    return shareholderTotalDividends.sub(shareholderTotalExcluded);
}

function getCumulativeDividends(uint256 share) internal view returns (uint256) {
    return share.mul(dividendsPerShare).div(dividendsPerShareAccuracyFactor);
}

function addShareholder(address shareholder) internal {
    shareholderIndexes[shareholder] = shareholders.length;
    shareholders.push(shareholder);
}

function removeShareholder(address shareholder) internal {
    shareholders[shareholderIndexes[shareholder]] = shareholders[shareholders.length-1];
    shareholderIndexes[shareholders[shareholders.length-1]] = shareholderIndexes[shareholder];
    shareholders.pop();
}

contract punch is IBEP20, Auth {
    using SafeMath for uint256;

    uint256 public constant MASK = type(uint128).max;
    address BUSD = 0xe9e7CEA3DedcA5984780Bafc599bD69ADd087D56;
    address public WBNB = 0xbb4CdB9CBd36B01bD1cBaEBF2De08d9173bc095c;
    address DEAD = 0x00000000000000000000000000000000dEaD;
    address ZERO = 0x0000000000000000000000000000000000000000;
    address DEAD_NON_CHECKSUM = 0x0000000000000000000000000000000000000000dEaD;

    string constant _name = "COUNTY";
    string constant _symbol = "COUNTY";
    uint8 constant _decimals = 18;

```

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uint256 _totalSupply = 1_000_000_000 * (10 ** _decimals);
uint256 public _maxTxAmount = _totalSupply.div(100); // 0.25%

mapping (address => uint256) _balances;
mapping (address => mapping (address => uint256)) _allowances;

mapping (address => bool) isFeeExempt;
mapping (address => bool) isTxLimitExempt;
mapping (address => bool) isDividendExempt;

uint256 liquidityFee = 100; // 1%
uint256 buybackFee = 200; // 0%
uint256 reflectionFee = 800; // 8%
uint256 marketingFee = 300; // 3%
uint256 totalFee = liquidityFee+reflectionFee+marketingFee; // 1% + 8% + 3%
uint256 feeDenominator = 10000; // Leave this Here.

address public autoLiquidityReceiver;
address public marketingFeeReceiver;

uint256 targetLiquidity = 25;
uint256 targetLiquidityDenominator = 100;

IDEXRouter public router;
address public pair;

uint256 public launchedAt;
uint256 public launchedAtTimestamp;

uint256 buybackMultiplierNumerator = 200;
uint256 buybackMultiplierDenominator = 100;
uint256 buybackMultiplierTriggeredAt;
uint256 buybackMultiplierLength = 30 minutes;

bool public autoBuybackEnabled = false;
mapping (address => bool) buyBacker;
uint256 autoBuybackCap;
uint256 autoBuybackAccumulator;
uint256 autoBuybackAmount;
uint256 autoBuybackBlockPeriod;
uint256 autoBuybackBlockLast;

DividendDistributor distributor;
address public distributorAddress;

uint256 distributorGas = 400000;

bool public swapEnabled = true;
uint256 public swapThreshold = _totalSupply / 2000; // 0.005%
bool inSwap;
modifier swapping() { inSwap = true; _; inSwap = false; }

constructor () Auth(msg.sender) {
    router = IDEXRouter(0x10ED43C718714eb63d5aA57B78B54704E256024E);
    pair = IDEXFactory(router.factory()).createPair(WBNB, address(this));
    _allowances[address(this)][address(router)] = _totalSupply;
    WBNB = router.WETH();
    distributor = new DividendDistributor(0x10ED43C718714eb63d5aA57B78B54704E256024E);
    distributorAddress = address(distributor);
}

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isFeeExempt[msg.sender] = true;
isTxLimitExempt[msg.sender] = true;
isDividendExempt[pair] = true;
isDividendExempt[address(this)] = true;
isDividendExempt[DEAD] = true;
buyBacker[msg.sender] = true;

autoLiquidityReceiver = 0x34231A0361C85E413c4208EcceC7652975C9Bbc6;
marketingFeeReceiver = 0xC16d7bc67062D7f71b085aC8918e83b78E57Bf2A;

approve(0x10ED43C718714eb63d5aA57B78B54704E256024E, _totalSupply);
approve(address(pair), _totalSupply);
_balances[msg.sender] = _totalSupply;
emit Transfer(address(0), msg.sender, _totalSupply);
}

receive() external payable { }

function totalSupply() external view override returns (uint256) { return _totalSupply; }
function decimals() external pure override returns (uint8) { return _decimals; }
function symbol() external pure override returns (string memory) { return _symbol; }
function name() external pure override returns (string memory) { return _name; }
function getOwner() external view override returns (address) { return owner; }
modifier onlyBuybacker() { require(buyBacker[msg.sender] == true, ""); _; }
function balanceOf(address account) public view override returns (uint256) { return
_balances[account]; }
function allowance(address holder, address spender) external view override returns (uint256)
{ return _allowances[holder][spender]; }

function approve(address spender, uint256 amount) public override returns (bool) {
    _allowances[msg.sender][spender] = amount;
    emit Approval(msg.sender, spender, amount);
    return true;
}

function approveMax(address spender) external returns (bool) {
    return approve(spender, _totalSupply);
}

function transfer(address recipient, uint256 amount) external override returns (bool) {
    return _transferFrom(msg.sender, recipient, amount);
}

function transferFrom(address sender, address recipient, uint256 amount) external override
returns (bool) {
    if(_allowances[sender][msg.sender] != _totalSupply){
        _allowances[sender][msg.sender] = _allowances[sender][msg.sender].sub(amount,
        "Insufficient Allowance");
    }

    return _transferFrom(sender, recipient, amount);
}

function _transferFrom(address sender, address recipient, uint256 amount) internal returns
(bool) {
    if(inSwap){ return _basicTransfer(sender, recipient, amount); }

    checkTxLimit(sender, amount);
    //
    if(shouldSwapBack()){ swapBack(); }

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    if(shouldAutoBuyback()){ triggerAutoBuyback(); }

    //    if(!launched() && recipient == pair){ require(_balances[sender] > 0); launch(); }

    _balances[sender] = _balances[sender].sub(amount, "Insufficient Balance");

    uint256 amountReceived = shouldTakeFee(sender) ? takeFee(sender, recipient, amount) :
amount;

    _balances[recipient] = _balances[recipient].add(amountReceived);

    if(!isDividendExempt[sender]){ try distributor.setShare(sender, _balances[sender]) {} catch {} }
    if(!isDividendExempt[recipient]){ try distributor.setShare(recipient, _balances[recipient]) {}
catch {} }

    try distributor.process(distributorGas) {} catch {}

    emit Transfer(sender, recipient, amountReceived);
    return true;
}

function _basicTransfer(address sender, address recipient, uint256 amount) internal returns
(bool) {
    _balances[sender] = _balances[sender].sub(amount, "Insufficient Balance");
    _balances[recipient] = _balances[recipient].add(amount);
//    emit Transfer(sender, recipient, amount);
    return true;
}

function checkTxLimit(address sender, uint256 amount) internal view {
    require(amount <= _maxTxAmount || isTxLimitExempt[sender], "TX Limit Exceeded");
}

function shouldTakeFee(address sender) internal view returns (bool) {
    return !isFeeExempt[sender];
}

function getTotalFee(bool selling) public view returns (uint256) {
    if(launchedAt + 1 >= block.number){ return feeDenominator.sub(1); }
    if(selling){ return getMultipliedFee(); }
    return totalFee;
}

function getMultipliedFee() public view returns (uint256) {
    if (launchedAtTimestamp + 1 days > block.timestamp) {
        return totalFee.mul(18000).div(feeDenominator);
    } else if (buybackMultiplierTriggeredAt.add(buybackMultiplierLength) > block.timestamp) {
        uint256 remainingTime =
buybackMultiplierTriggeredAt.add(buybackMultiplierLength).sub(block.timestamp);
        uint256 feeIncrease =
totalFee.mul(buybackMultiplierNumerator).div(buybackMultiplierDenominator).sub(totalFee);
        return totalFee.add(feeIncrease.mul(remainingTime).div(buybackMultiplierLength));
    }
    return totalFee;
}

function takeFee(address sender, address receiver, uint256 amount) internal returns (uint256) {
    uint256 feeAmount = amount.mul(getTotalFee(receiver == pair)).div(feeDenominator);

    _balances[address(this)] = _balances[address(this)].add(feeAmount);

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    emit Transfer(sender, address(this), feeAmount);

    return amount.sub(feeAmount);
}

function shouldSwapBack() internal view returns (bool) {
    return msg.sender != pair
        && !inSwap
        && swapEnabled
        && _balances[address(this)] >= swapThreshold;
}

function swapBack() internal swapping {
    uint256 dynamicLiquidityFee = isOverLiquified(targetLiquidity, targetLiquidityDenominator) ?
0 : liquidityFee;
    uint256 amountToLiquify = swapThreshold.mul(dynamicLiquidityFee).div(totalFee).div(2);
    uint256 amountToSwap = swapThreshold.sub(amountToLiquify);

    address[] memory path = new address[](2);
    path[0] = address(this);
    path[1] = WBNB;
    uint256 balanceBefore = address(this).balance;

    router.swapExactTokensForETHSupportingFeeOnTransferTokens(
        amountToSwap,
        0,
        path,
        address(this),
        block.timestamp
    );

    uint256 amountBNB = address(this).balance.sub(balanceBefore);

    uint256 totalBNBFee = totalFee.sub(dynamicLiquidityFee.div(2));

    uint256 amountBNBLiquidity =
amountBNB.mul(dynamicLiquidityFee).div(totalBNBFee).div(2);
    uint256 amountBNBReflection = amountBNB.mul(reflectionFee).div(totalBNBFee);
    uint256 amountBNBMarketing = amountBNB.mul(marketingFee).div(totalBNBFee);

    try distributor.deposit{value: amountBNBReflection}() {} catch {}
    payable(marketingFeeReceiver).transfer(amountBNBMarketing);

    if(amountToLiquify > 0){
        router.addLiquidityETH{value: amountBNBLiquidity}(
            address(this),
            amountToLiquify,
            0,
            0,
            autoLiquidityReceiver,
            block.timestamp
        );
        emit AutoLiquify(amountBNBLiquidity, amountToLiquify);
    }
}

function shouldAutoBuyback() internal view returns (bool) {
    return msg.sender != pair

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    && !inSwap
    && autoBuybackEnabled
    && autoBuybackBlockLast + autoBuybackBlockPeriod <= block.number // After N blocks
from last buyback
    && address(this).balance >= autoBuybackAmount;
}

function triggerZeusBuyback(uint256 amount, bool triggerBuybackMultiplier) external
authorized {
    buyTokens(amount, DEAD);
    if(triggerBuybackMultiplier){
        buybackMultiplierTriggeredAt = block.timestamp;
        emit BuybackMultiplierActive(buybackMultiplierLength);
    }
}

function clearBuybackMultiplier() external authorized {
    buybackMultiplierTriggeredAt = 0;
}

function triggerAutoBuyback() internal {
    buyTokens(autoBuybackAmount, DEAD);
    autoBuybackBlockLast = block.number;
    autoBuybackAccumulator = autoBuybackAccumulator.add(autoBuybackAmount);
    if(autoBuybackAccumulator > autoBuybackCap){ autoBuybackEnabled = false; }
}

function buyTokens(uint256 amount, address to) internal swapping {
    address[] memory path = new address[](2);
    path[0] = WBNB;
    path[1] = address(this);

    router.swapExactETHForTokensSupportingFeeOnTransferTokens{value: amount}(
        0,
        path,
        to,
        block.timestamp
    );
}

function setAutoBuybackSettings(bool _enabled, uint256 _cap, uint256 _amount, uint256
_period) external authorized {
    autoBuybackEnabled = _enabled;
    autoBuybackCap = _cap;
    autoBuybackAccumulator = 0;
    autoBuybackAmount = _amount;
    autoBuybackBlockPeriod = _period;
    autoBuybackBlockLast = block.number;
}

function setBuybackMultiplierSettings(uint256 numerator, uint256 denominator, uint256 length)
external authorized {
    require(numerator / denominator <= 2 && numerator > denominator);
    buybackMultiplierNumerator = numerator;
    buybackMultiplierDenominator = denominator;
    buybackMultiplierLength = length;
}

function launched() internal view returns (bool) {
    return launchedAt != 0;
}

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}

function launch() public authorized {
    require(launchedAt == 0, "Already launched boi");
    launchedAt = block.number;
    launchedAtTimestamp = block.timestamp;
}

function setTxLimit(uint256 amount) external authorized {
    require(amount >= _totalSupply / 1000);
    _maxTxAmount = amount;
}

function setIsDividendExempt(address holder, bool exempt) external authorized {
    require(holder != address(this) && holder != pair);
    isDividendExempt[holder] = exempt;
    if(exempt){
        distributor.setShare(holder, 0);
    }else{
        distributor.setShare(holder, _balances[holder]);
    }
}

function setIsFeeExempt(address holder, bool exempt) external authorized {
    isFeeExempt[holder] = exempt;
}

function setIsTxLimitExempt(address holder, bool exempt) external authorized {
    isTxLimitExempt[holder] = exempt;
}

function setFees(uint256 _liquidityFee, uint256 _buybackFee, uint256 _reflectionFee, uint256
_marketingFee, uint256 _feeDenominator) external authorized {
    liquidityFee = _liquidityFee;
    buybackFee = _buybackFee;
    reflectionFee = _reflectionFee;
    marketingFee = _marketingFee;
    totalFee = _liquidityFee.add(_buybackFee).add(_reflectionFee).add(_marketingFee);
    feeDenominator = _feeDenominator;
    require(totalFee < feeDenominator/5); //20% max
}

function setFeeReceivers(address _autoLiquidityReceiver, address _marketingFeeReceiver)
external authorized {
    autoLiquidityReceiver = _autoLiquidityReceiver;
    marketingFeeReceiver = _marketingFeeReceiver;
}

function setSwapBackSettings(bool _enabled, uint256 _amount) external authorized {
    swapEnabled = _enabled;
    swapThreshold = _amount;
}

function setTargetLiquidity(uint256 _target, uint256 _denominator) external authorized {
    targetLiquidity = _target;
    targetLiquidityDenominator = _denominator;
}

function setDistributionCriteria(uint256 _minPeriod, uint256 _minDistribution) external
authorized {

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    distributor.setDistributionCriteria(_minPeriod, _minDistribution);
}

function setDistributorSettings(uint256 gas) external authorized {
    require(gas < 750000);
    distributorGas = gas;
}

function getCirculatingSupply() public view returns (uint256) {
    return _totalSupply.sub(balanceOf(DEAD)).sub(balanceOf(ZERO));
}

function getLiquidityBacking(uint256 accuracy) public view returns (uint256) {
    return accuracy.mul(balanceOf(pair).mul(2)).div(getCirculatingSupply());
}

function isOverLiquified(uint256 target, uint256 accuracy) public view returns (bool) {
    return getLiquidityBacking(accuracy) > target;
}

event AutoLiquify(uint256 amountBNB, uint256 amountBOG);
event BuybackMultiplierActive(uint256 duration);
}

```