// SPDX-License-Identifier: MIT pragma solidity ^0.6.2; /// @title Dividend-Paying Token Interface /// @author Roger Wu (https://github.com/roger-wu) /// @dev An interface for a dividend-paying token contract. interface DividendPayingTokenInterface { /// @notice View the amount of dividend in wei that an address can withdraw. /// @param \_owner The address of a token holder. /// @return The amount of dividend in wei that `\_owner` can withdraw. function dividendOf(address \_owner) external view returns(uint256); /// @notice Withdraws the ether distributed to the sender. /// @dev SHOULD transfer `dividendOf(msg.sender)` wei to `msg.sender`, and `dividendOf(msg.sender)` SHOULD be 0 after the transfer. /// MUST emit a `DividendWithdrawn` event if the amount of ether transferred is greater than 0. function withdrawDividend() external; /// @dev This event MUST emit when ether is distributed to token holders. /// @param from The address which sends ether to this contract. /// @param weiAmount The amount of distributed ether in wei. event DividendsDistributed( address indexed from, uint256 weiAmount ); /// @dev This event MUST emit when an address withdraws their dividend. /// @param to The address which withdraws ether from this contract. /// @param weiAmount The amount of withdrawn ether in wei. event DividendWithdrawn( address indexed to, uint256 weiAmount ); }