



Ejercicio 02

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Ejercicio 0 - Modificar TokenContract

```
pragma solidity 0.8.18;

contract TokenContract0 {
    address public owner;
    uint256 public rate = 5 ether;

    struct Receivers {
        string name;
        uint256 tokens;
    }

    mapping(address => Receivers) public users;
    mapping(address => uint256) public etherBalance;

    modifier onlyOwner() {
        require(msg.sender == owner);
        _;
    }

    constructor() {
        owner = msg.sender;
        users[owner].tokens = 100;
    }

    function double(uint256 _value) public pure returns (uint256) {
        return _value * 2;
    }

    function register(string memory _name) public {
        users[msg.sender].name = _name;
    }
}
```

```
    }

    function giveToken(address _receiver, uint256 _amount) onlyOwner
public {
    require(users[owner].tokens >= _amount);
    users[owner].tokens -= _amount;
    users[_receiver].tokens += _amount;
}

receive() external payable {
    etherBalance[address(this)] += msg.value;
}
}
```