***Solidity Assignment 22***

***Q- Remove array element by shifting elements from right to left***

***remove(n) in the comments below indicates remove elements from the nth index of the***

***array***

***examples of suggested inputs and outputs-***

***// [1, 2, 3] -- remove(1) --> [1, 3, 3] --> [1, 3]***

***// [1, 2, 3, 4, 5, 6] -- remove(2) --> [1, 2, 4, 5, 6, 6] --> [1, 2, 4,5, 6]***

***// [1, 2, 3, 4, 5, 6] -- remove(0) --> [2, 3, 4, 5, 6, 6] --> [2, 3, 4,5, 6]***

***// [1] -- remove(0) --> [1] --> []***

pragma solidity ^0.8.0;

contract RemoveArrayElement {

    uint[] public myArray = [1,2,3];

    function remove(uint index) public {

        require(index < myArray.length, "Index out of bounds");

        // Shift elements from right to left

        for (uint i = index; i < myArray.length - 1; i++) {

            myArray[i] = myArray[i+1];

        }

        // Remove the last element

        myArray.pop();

    }

}