**Solidity 13 November Assignment**

**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] --> []**

// SPDX-License-Identifier: GPL-3.0

pragma solidity ^0.8.6;

library LibRemoveIndex{

 function remove(uint[] storage arr1, uint index) public{

        require(arr1.length > 0, "can't remove from empty arrar");

        arr1[index] =arr1[arr1.length - 1];

        arr1.pop();

    }

}

contract Remove{

    uint[] public arr;

    //uint public n;

    using LibRemoveIndex for uint[];

    function removal() public returns (uint[] memory){

        for(uint i =0; i < 4; i++){

            arr.push(i);

        }

        arr.remove(1);

        return(arr);

    }

}