// "1. Write a JavaScript program to compute the exponent of a number. Note : The exponent of a number says how many times the base number is used as a factor.

// 82 = 8 x 8 = 64. Here 8 is the base and 2 is the exponent.

function exponent(n,x)

{

    if(x==0)

    return 1;

    return n\*exponent(n,x-1);

}

console.log(exponent(2,10));

// 2. Write a JavaScript program for binary search.

// Sample array: [0,1,2,3,4,5,6];

// console.log(l.br\_search(5)) will return '5'

let array=  [0,1,2,3,4,5,6];

const binary=(array,n)=>

{

let lower=0;

let upper=array.length-1;

while(lower<=upper)

{

    if(n<lower ||n>upper)

    {

        return 'Number not found';

    }

    let middle=Math.floor((lower+upper)/2);

    if(n===array[middle])

    return middle;

    else if(n<array[middle])

    {

        upper=middle-1;

    }

    else if(n>array[middle])

    {

        lower=middle+1;

    }

}

}

console.log(binary(array,5));