

## Actividad 1 (object)

1.

*// Crea un programa que recorra un arreglo de números y calcule la suma total de todos sus elementos.*

```
let numeros = [23,45.5,346,6,7,1,3,9,99,779,70,4,1,3,5,23,46,25,7,8];
```

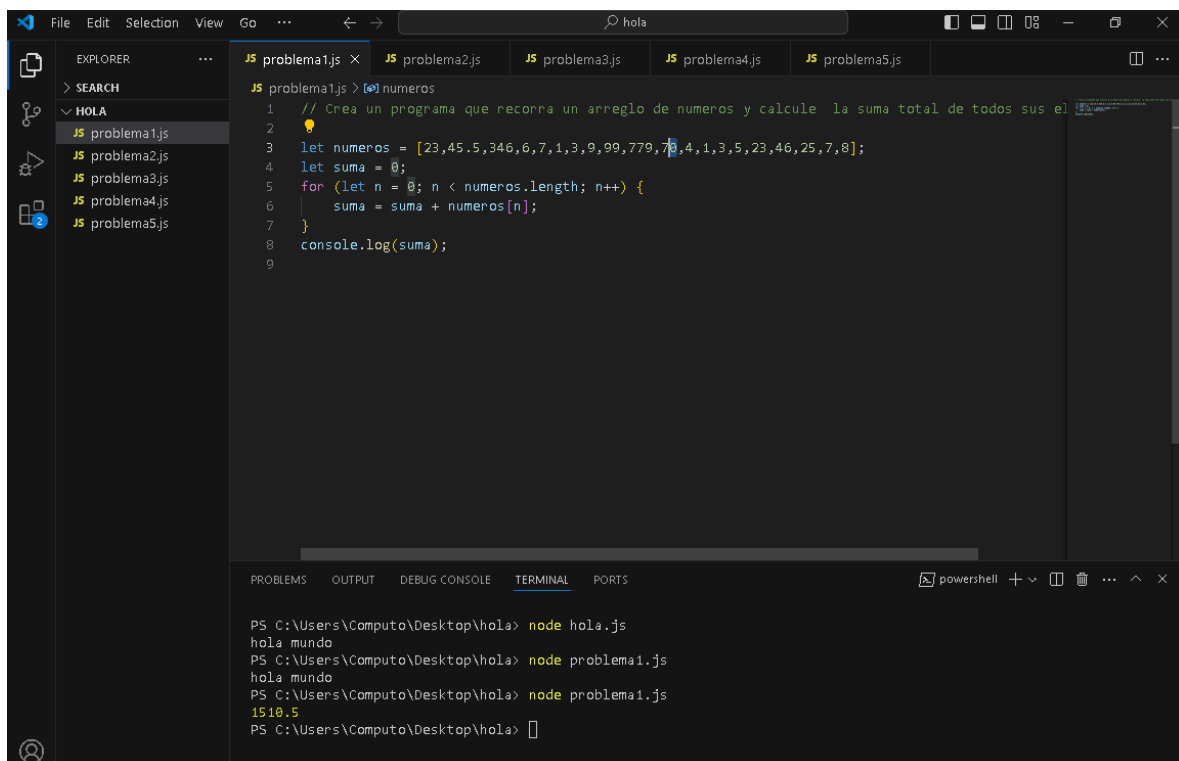
```
let suma = 0;
```

```
for (let n = 0; n < numeros.length; n++) {
```

```
    suma = suma + numeros[n];
```

```
}
```

```
console.log(suma);
```



The screenshot shows the Visual Studio Code editor with a file named `problema1.js` open. The code in the file is as follows:

```
1 // Crea un programa que recorra un arreglo de numeros y calcule la suma total de todos sus el
2
3 let numeros = [23,45.5,346,6,7,1,3,9,99,779,70,4,1,3,5,23,46,25,7,8];
4 let suma = 0;
5 for (let n = 0; n < numeros.length; n++) {
6     suma = suma + numeros[n];
7 }
8 console.log(suma);
9
```

The terminal window at the bottom shows the following commands and output:

```
PS C:\Users\Computo\Desktop\hola> node hola.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
1510.5
PS C:\Users\Computo\Desktop\hola>
```

2.

*// Crea un programa que recorra un arreglo de numeros y separe los pares e impares en dos nuevos arreglos.*

```
let numeros = [1243,44,5,2,32245,436,23,6,2,53,763,46.3,356.32];
```

```
let pares = [];
```

```
let impares = [];
```

```
for (let z = 0 ; z < numeros.length; z++)
```

```
{
```

```
  if (numeros[z] % 2 === 0)
```

```
  {
```

```
    pares.push(numeros[z]);
```

```
  }
```

```
  else
```

```
  {
```

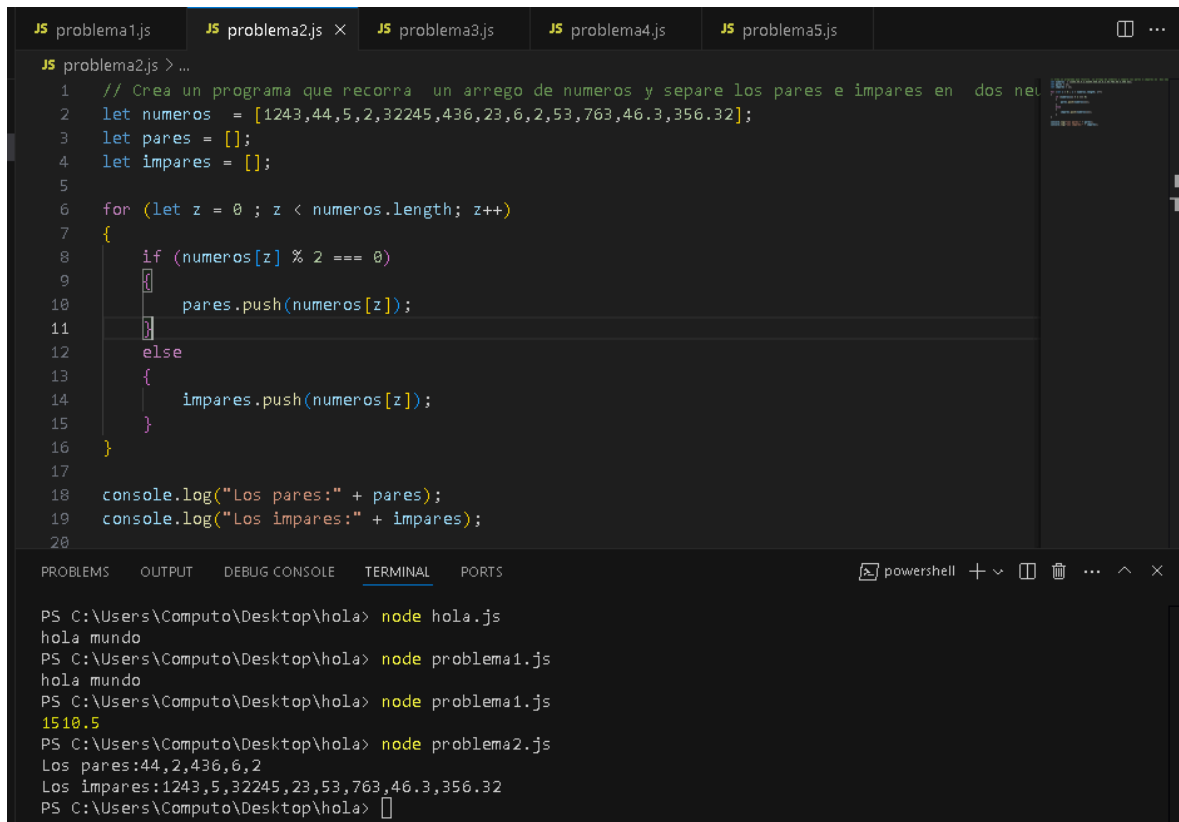
```
    impares.push(numeros[z]);
```

```
  }
```

```
}
```

```
console.log("Los pares:" + pares);
```

```
console.log("Los impares:" + impares);
```



```
JS problema1.js JS problema2.js X JS problema3.js JS problema4.js JS problema5.js
JS problema2.js > ...
1 // Crea un programa que recorra un arreglo de numeros y separe los pares e impares en dos ne
2 let numeros = [1243,44,5,2,32245,436,23,6,2,53,763,46.3,356.32];
3 let pares = [];
4 let impares = [];
5
6 for (let z = 0 ; z < numeros.length; z++)
7 {
8     if (numeros[z] % 2 === 0)
9     {
10         pares.push(numeros[z]);
11     }
12     else
13     {
14         impares.push(numeros[z]);
15     }
16 }
17
18 console.log("Los pares:" + pares);
19 console.log("Los impares:" + impares);
20

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Computo\Desktop\hola> node hola.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
1518.5
PS C:\Users\Computo\Desktop\hola> node problema2.js
Los pares:44,2,436,6,2
Los impares:1243,5,32245,23,53,763,46.3,356.32
PS C:\Users\Computo\Desktop\hola>
```

3.

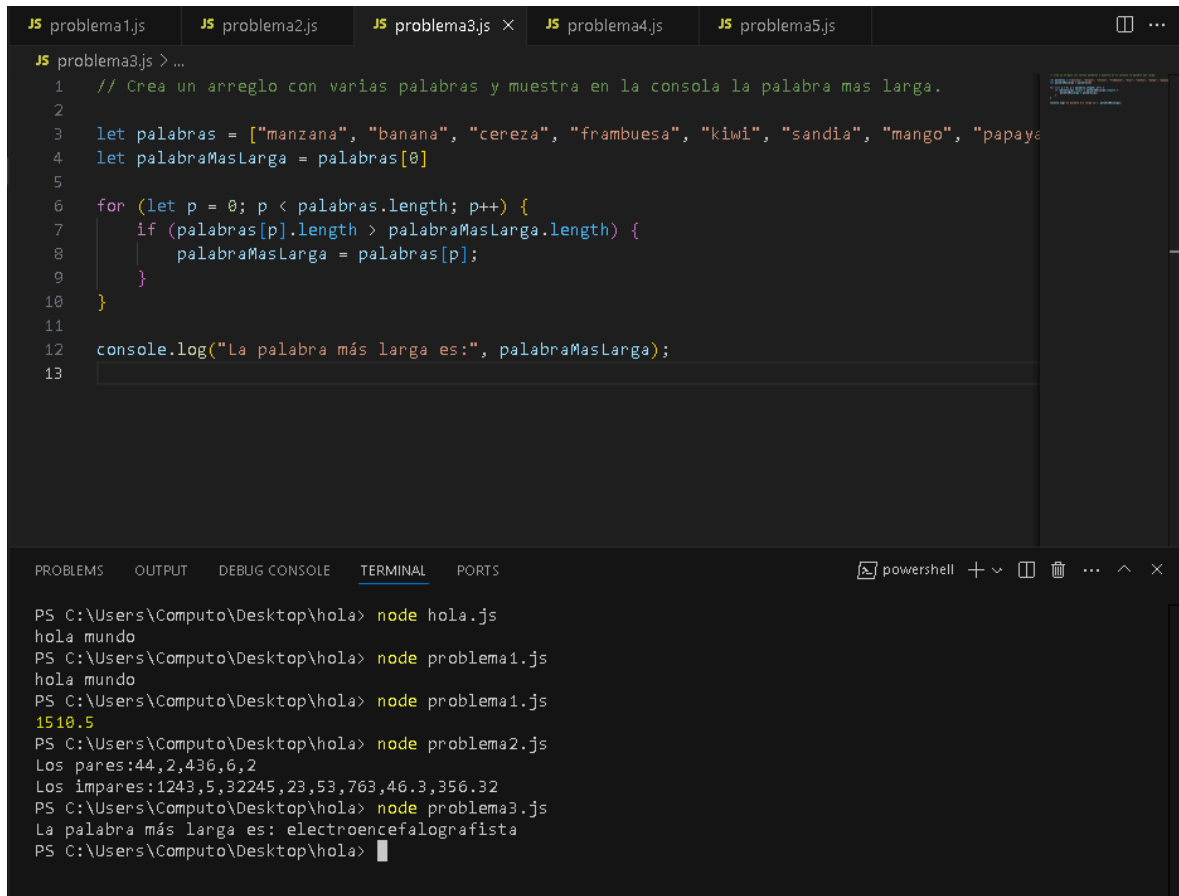
*// Crea un arreglo con varias palabras y muestra en la consola la palabra mas larga.*

```
let palabras = ["manzana", "banana", "cereza", "frambuesa", "kiwi", "sandia", "mango",  
"papaya", "electroencefalografista", "cereza", "Helado"];
```

```
let palabraMasLarga = palabras[0]
```

```
for (let p = 0; p < palabras.length; p++) {  
    if (palabras[p].length > palabraMasLarga.length) {  
        palabraMasLarga = palabras[p];  
    }  
}
```

```
console.log("La palabra más larga es:", palabraMasLarga);
```



The screenshot shows a VS Code editor with a file named 'problema3.js' open. The code in the file is as follows:

```
1 // Crea un arreglo con varias palabras y muestra en la consola la palabra mas larga.
2
3 let palabras = ["manzana", "banana", "cereza", "frambuesa", "kiwi", "sandia", "mango", "papaya"];
4 let palabraMasLarga = palabras[0];
5
6 for (let p = 0; p < palabras.length; p++) {
7     if (palabras[p].length > palabraMasLarga.length) {
8         palabraMasLarga = palabras[p];
9     }
10 }
11
12 console.log("La palabra más larga es:", palabraMasLarga);
13
```

The terminal at the bottom shows the output of running the code:

```
PS C:\Users\Computo\Desktop\hola> node hola.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
1510.5
PS C:\Users\Computo\Desktop\hola> node problema2.js
Los pares:44,2,436,6,2
Los impares:1243,5,32245,23,53,763,46.3,356.32
PS C:\Users\Computo\Desktop\hola> node problema3.js
La palabra más larga es: electroencefalografista
PS C:\Users\Computo\Desktop\hola>
```

4.

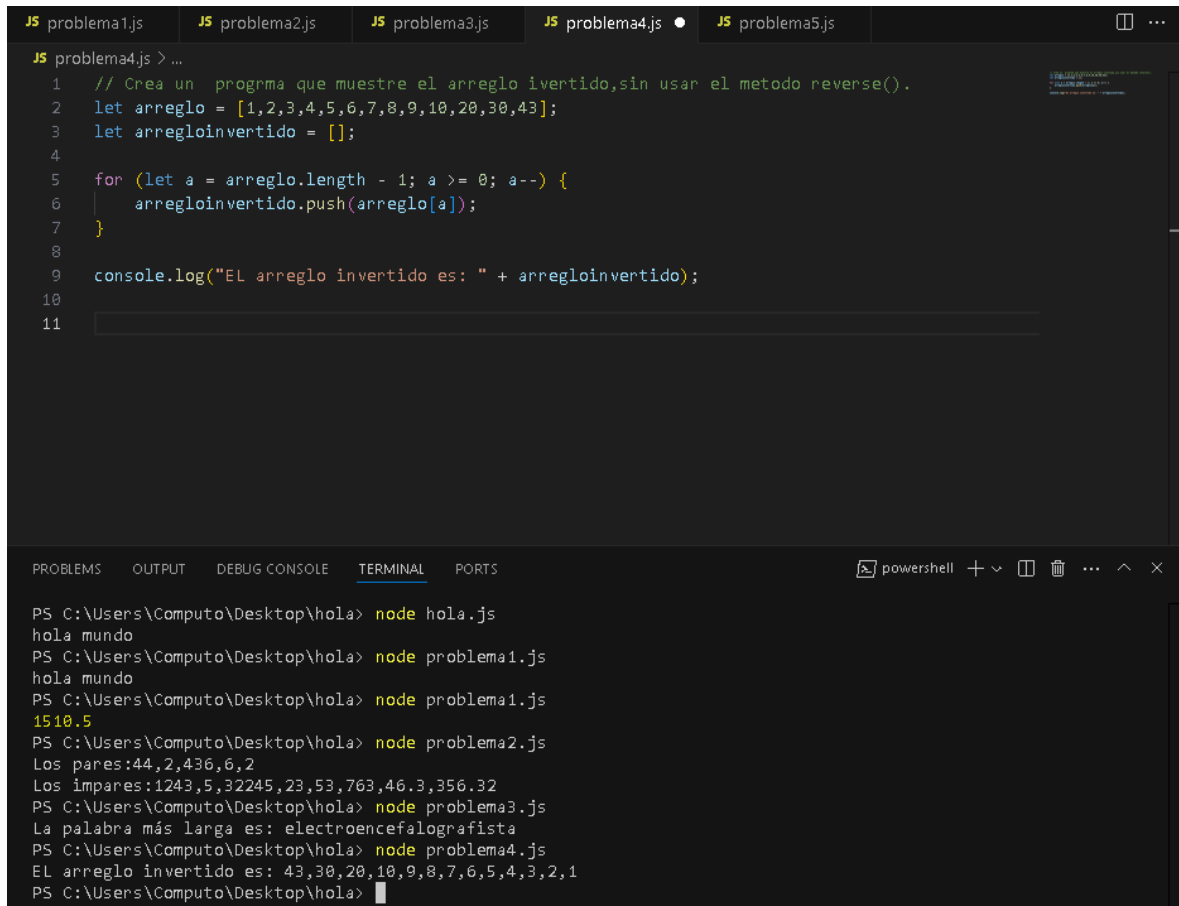
*// Crea un programa que muestre el arreglo invertido, sin usar el metodo reverse().*

```
let arreglo = [1,2,3,4,5,6,7,8,9,10,20,30,43];
```

```
let arregloinvertido = [];
```

```
for (let a = arreglo.length - 1; a >= 0; a--) {
    arregloinvertido.push(arreglo[a]);
}
```

console.log("EL arreglo invertido es: " + arregloinvertido);



The screenshot shows a VS Code editor with a file named `problema4.js` open. The code in the file is as follows:

```
1 // Crea un programa que muestre el arreglo invertido, sin usar el metodo reverse().
2 let arreglo = [1,2,3,4,5,6,7,8,9,10,20,30,43];
3 let arregloinvertido = [];
4
5 for (let a = arreglo.length - 1; a >= 0; a--) {
6   arregloinvertido.push(arreglo[a]);
7 }
8
9 console.log("EL arreglo invertido es: " + arregloinvertido);
10
11
```

The terminal at the bottom shows the output of running the code:

```
PS C:\Users\Computo\Desktop\hola> node hola.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
1510.5
PS C:\Users\Computo\Desktop\hola> node problema2.js
Los pares:44,2,436,6,2
Los impares:1243,5,32245,23,53,763,46.3,356.32
PS C:\Users\Computo\Desktop\hola> node problema3.js
La palabra más larga es: electroencefalografista
PS C:\Users\Computo\Desktop\hola> node problema4.js
EL arreglo invertido es: 43,30,20,10,9,8,7,6,5,4,3,2,1
PS C:\Users\Computo\Desktop\hola>
```

5.

*// Crea un programa que reciba un arreglo de números y un número límite.*

*// El programa debe mostrar solo los números que sean mayores al límite.*

```
let numeros = [10, 25, 3, 50, 18, 70, 2, 99, 45];
```

```
let limite = 30;
```

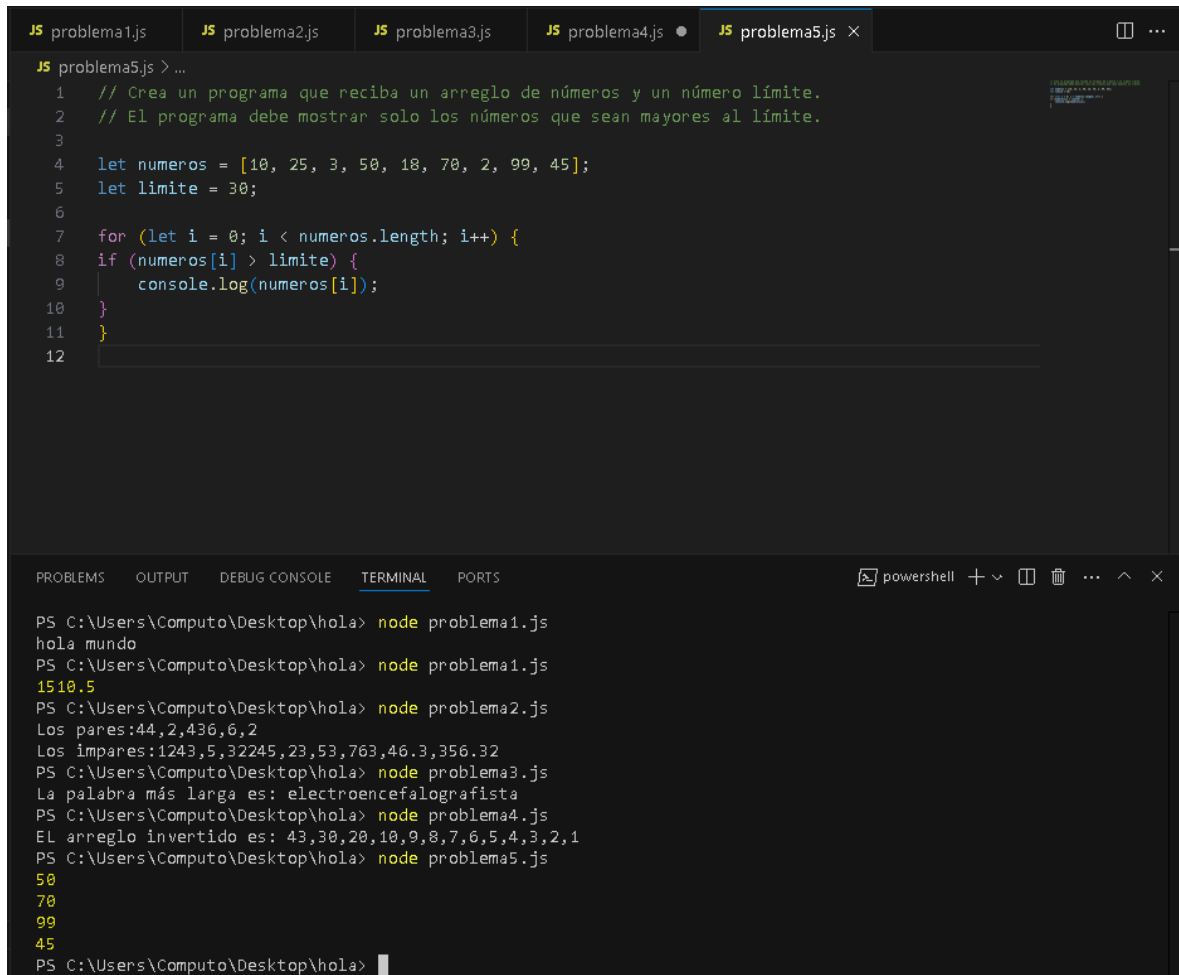
```
for (let i = 0; i < numeros.length; i++) {
```

```
  if (numeros[i] > limite) {
```

```
    console.log(numeros[i]);
```

}

}



The image shows a Visual Studio Code editor window with five tabs: problema1.js, problema2.js, problema3.js, problema4.js, and problema5.js. The active tab is problema5.js, which contains the following JavaScript code:

```
1 // Crea un programa que reciba un arreglo de números y un número límite.
2 // El programa debe mostrar solo los números que sean mayores al límite.
3
4 let numeros = [10, 25, 3, 50, 18, 70, 2, 99, 45];
5 let limite = 30;
6
7 for (let i = 0; i < numeros.length; i++) {
8   if (numeros[i] > limite) {
9     console.log(numeros[i]);
10  }
11 }
12
```

Below the editor is a terminal window with the following output:

```
PS C:\Users\Computo\Desktop\hola> node problema1.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
1510.5
PS C:\Users\Computo\Desktop\hola> node problema2.js
Los pares:44,2,430,6,2
Los impares:1243,5,32245,23,53,763,46.3,356.32
PS C:\Users\Computo\Desktop\hola> node problema3.js
La palabra más larga es: electroencefalografista
PS C:\Users\Computo\Desktop\hola> node problema4.js
El arreglo invertido es: 43,30,20,10,9,8,7,6,5,4,3,2,1
PS C:\Users\Computo\Desktop\hola> node problema5.js
50
70
99
45
PS C:\Users\Computo\Desktop\hola>
```