

## **Write a JavaScript program to find all the index positions of a given word within a given string.**

```
function findAllIndexes(str, word) { let indexes = [];  
  
let index = -1;  
  
while ((index = str.indexOf(word, index + 1)) !== -1) { indexes.push(index);  
}  
  
return indexes;  
}  
  
let string = "hello world hello"; let word = "world";  
  
let positions = findAllIndexes(string, word);  
  
console.log("The word '" + word + "' appears at positions: " + positions.join(", "));
```

## **Write a JavaScript program to find the first index of a given element in an array using the linear search algorithm.**

```
function linearSearch(arr, element) { for (let i = 0; i < arr.length; i++) {  
  
if (arr[i] === element) {  
  
return i;  
  
}  
  
}  
  
return -1;  
}
```

## **Write a JavaScript program to sort a list of elements using Quick sort.**

```
function quickSort(arr) {  
  
if (arr.length <= 1) { return arr;  
  
}  
  
const pivot = arr[Math.floor(arr.length / 2)]; const left = [];
```