

```
function quickSort (array) {  
  return quickSortHelper(array, 0, array.length - 1)  
}
```

```
function quickSortHelper (array, low, high) {  
  // base case  
  if (low < high) {  
    // calculate position of partition  
    const pos = partition (array, low, high)  
  
    quickSortHelper (array, low, pos - 1)  
    quickSortHelper (array, pos + 1, high)  
  }  
  
  return array  
}
```

```
function partition (array, low, high) {  
  var pivot = array[high]  
  var i = low - 1  
  
  for (let j=low; j<high; j++) {  
    if (array[j] < pivot) {  
      i++  
      swap(array, i, j)  
    }  
  }  
  swap(array, i+1, high)  
  return i+1  
}
```

```
function swap (array, i, j) {  
  [array[i], array[j]] = [array[j], array[i]]  
}
```

```
console.log(quickSort([1,2,23,21,5,6]))
```