Challenge: Implement Quicksort

The quickSort function should recursively sort the subarray array[p..r].

- If the subarray has size 0 or 1, then it's already sorted, and so nothing needs to be done.
- Otherwise, quickSort uses divide-and-conquer to sort the subarray.

The divide step should partition the array, the conquer step should recursively quicksort the partitioned subarrays, and the combine step should do nothing.

```
Pvthon
                           C++
                                         JS JS
👙 Java
    # This function partitions give
    def partition(array, p, r):
      e=array
      t=p
       n=r
       def swap(e,t,n):
       r=e[t]
11
       e[t]=e[n]
12
       e[n]=r
13
       i=t
14
       s=t
15
      while s<n:
         if e[s]<=e[n]:</pre>
16
17
         swap(e,s,i)
         i = i + 1
18
       s = s + 1
20
       swap(e,n,i)
21
22
      return i
23
24
    def quickSort(array, p, r):
25
      # Write method here
27
       return
```

