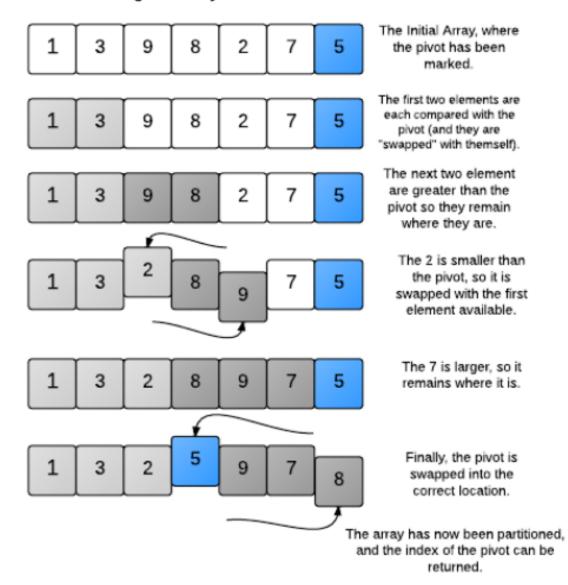
Quick Sort

Labwork 9

Quick Sort

Partitioning an array



Pseudocode

```
Sort(A)
     Quicksort(A,1,n)
Quicksort(A, low, high)
     if (low < high)
            pivot-location = Partition(A,low,high)
            Quicksort(A,low, pivot-location - 1)
            Quicksort(A, pivot-location+1, high)
Partition(A,low,high)
      pivot = A[low]
      leftwall = low
     for i = low+1 to high
           if (A[i] < pivot) then
                 leftwall = leftwall+1
                 swap(A[i],A[leftwall])
     swap(A[low],A[leftwall])
```