Algorithm 1: Partition		
Input: Input		
	Output: Output Procedure Partition(A, low , $high$) $p := ChoosePivot(A, low, high)$ $swap A[p]$ with $A[high]$ $pivot \leftarrow A[high]$ $left \leftarrow low$ $right \leftarrow high - 1$ while $left \le right \land A[left] \le pivot \land A[left]$	Algorithm 2: QuickSort Input: Input Output: Output 1 Procedure QuickSort(A, low, high) 2 if low ≥ high then 3 return A 4 p ← Partition(A, low, high) 5 QuickSort (A, low, p - 1) 6 QuickSort (A, p + 1, high) 7 return A
9 10 11 12 13	$ig egin{array}{ll} left \leftarrow left + 1 \ \mathbf{end} \ \mathbf{while} \ right \geq left \wedge A[right] \geq pivot \ \mathbf{do} \ ig \ right \leftarrow right - 1 \ \mathbf{end} \end{array}$	
14 15 16 17 18	if $left < right$ then $ $ swap A[left] and A[right] end swap A[left] and A[high] return $left$	