```
function partitionFunc(left, right, pivot)
    leftPointer = left -1
    rightPointer = right

    while True do
        while A[++leftPointer] < pivot do
            //do-nothing
        end while

        while rightPointer > 0 && A[--rightPointer] > pivot do
            //do-nothing
        end while

        if leftPointer >= rightPointer
            break
        else
            swap leftPointer, rightPointer
        end if

    end while

    swap leftPointer, right
    return leftPointer

end function
```