You have 15 minutes to complete this quiz.

1. What is the output produced by the following function when it is called as partition([8, 1, 7, 6, 3, 4, 2, 5], 0, 7)

```
def partition(L, first, last):
p = first
for current in range(p+1, last+1):
    print(L[first:p], L[p], L[p+1:current])
    if L[current] < L[p]:
        swap(L, current, p+1)
        swap(L, p, p+1)
        p = p + 1
    return p</pre>
```

2. This question is based on understanding the working of the following implementation of the quick sort algorithm.

```
def generalQuickSort(L, first, last):
if first < last:
    p = partition(L, first, last)
    generalQuickSort(L, first, p-1)
    generalQuickSort(L, p+1, last)</pre>
```

Insert the statement

```
print(L[first:p], L[p], L[p+1:last+1])
```

just after the line of code p = partition(L, first, last) in the above function. What output do we get if make the call

generalQuickSort([1, 3, 9, 4], 0, 3)