

22C:16 (CS:1210) Quiz 11

You have 20 minutes to complete this quiz.

1. Write down the output produced (via the print statement) when the function given below is called as

```
generalQuickSort([5, 6, 1, 4, 9, 10, 2], 0, 6)
```

```
def partition(L, first, last):
    p = first

    for current in range(p+1, last+1):
        if L[current] < L[p]:
            swap(L, current, p+1)
            swap(L, p, p+1)
            p = p + 1

    return p

def generalQuickSort(L, first, last):
    if first < last:
        p = partition(L, first, last)
        print L[first:p], L[p], L[p+1:last+1]
        generalQuickSort(L, first, p-1)
        generalQuickSort(L, p+1, last)
```

2. Delete the second (recursive) call to `generalQuickSort` in the above definition of `generalQuickSort`. Start with a list `L = [1, 9, 3, 2, 6, 1, 4]` and call this function as `generalQuickSort(L, 0, 6)`. What is `L` after this call?