

22C:16 Quiz 11

Date: Apr 24th, 2012

This quiz consists of two questions on the `mergeSort` function that we discussed in class. You will be separately given a printout of the `mergeSort` function to consult during the quiz.

1. [5 points] Insert the statement

```
print L[first:last+1]
```

as the first line of the function `generalMergeSort` (i.e., just before the comment line on “Base case”). Write down the output produced by the function call

```
mergeSort([3, 6, 4, 1, 4])
```

Ans.

[3, 6, 4, 1, 4], [3, 6, 4], [3, 6], [3], [6], [4], [1, 4], [1], [4], None

2. [5 points] Insert the statement

```
print L[first:mid+1]
```

just after the first call to the function `generalMergeSort` (inside the function `generalMergeSort`). Write down the output produced by the function call

```
mergeSort([3, 6, 14, 1, 4])
```

Ans.

[3], [3, 6], [3, 6, 14], [1], None
