## 22C:16 Quiz 11

The two problems in this quiz involve writing a little bit of code - at most 4-6 lines each. If you see yourself writing too much, it is time to stop and think. Turn the page for the second problem.

1. You are given a list L of numbers and your task is to write a recursive function to determine if $L$ is sorted in ascending order. Use the following function header:

> def isSorted(L):
and note that the function should return a boolean value, depending on whether L is sorted. For example, if L is $[3,7,7,19,21,21]$ then the function should return True.
Of course this problem can be solved non-recursively, but you will not receive any credit for a non-recursive solution, even if it is correct. And, by the way, do not forget to specify the base cases.
Hint: L is sorted if (i) the first item in $L$ is less than or equal to the second item and (ii) the sublist of L excluding the first element is sorted.
2. You are given a list $L$ of numbers and your task is to write a recursive function to determine the minimum number in $L$. Use the following function header:

## def minimum (L) :

For example, if L is $[21,3,7,67,19,210,21]$ then the function should return 3.
Of course this problem can be solved non-recursively, but you will not receive any credit for a non-recursive solution, even if it is correct. And, by the way, do not forget to specify the base cases.
Hint: To find the minimum number in $L$ first find the minimum number in the sublist of $L$ that excludes the first element. Then you just have to compare this with the first element in L to determine the answer.

