7.1-4.

How would you modify Quicksort to sort into nonincreasing order?

Answer.

To make Quicksort sort into nonincreasing order, we just change line 4 in Partition to be

if $A[j] \geq x$

Since the rearrangement of subarray $A[p..r]$ is in fact accomplished by the **if** conditional in the procedure Partition.