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PROBLEM 6-1 (1/1 point)

Answer the questions below based on the following sorting function. If it helps, you may paste the code in your programming environment. Study the output to make sure you understand the way it sorts.

Does this function sort the list in increasing or decreasing order? (items at lower indices being smaller means it sorts in increasing order, and vice versa)

- Increasing
- Decreasing

PROBLEM 6-2 (1/1 point)

What is the worst case time complexity of [swapSort]? Consider different kinds of lists when the length of the list is large.

- ullet $O(n^2)$ \checkmark
- O O(n)
- $O(\log(n))$
- O(1)

You have used 1 of 1 submissions

PROBLEM 6-3 (1/1 point)

If we make a small change to the line for j in range(i+1, len(L)): such that the code becomes:

What happens to the behavior of <code>swapSort</code> with this new code?

- No change
- modSwapSort now orders the list in descending order for all lists.
- omega now orders the list in descending order for SOME lists but not all
- O modSwapSort enters an infinite loop.

You have used 1 of 1 submissions

PROBLEM 6-4 (1/1 point)

What happens to the time complexity of this <code>modSwapSort</code>?

Best and worst cases stay the same.

- Worst case stays the same but best case changes.
- Best and worst cases change.

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