So here's a problem- right now I have a functioning integer sort using two stacks and a queue. But I don't think I'm following the algorithm correctly.

For 4 inputs, my program takes one pass (the example in the assignment description takes 2). For 1000 random numbers, it takes 536. For 5000, it takes 3010 (uh-oh). And then at 10,000 random numbers, it has to get killed due to taking way too long.

My interpretation/pseudo-pseudocode of the algorithm goes:

[pseudocode deleted (by jcl) as I would rather students practice their pseudocode development skills]

Any one facing similar issues, struggling to understand the algorithm, or have advice? Does this just happen to be an inefficient algorithm?

Great observations. It *is* a Theta(n^2) algorithm.

Thank goodness, I was concerned that I had somehow created a monster.