Class work: Some-Sort-2

Note: As usual, we denote the size of A by n.

- 1. Write pseudocode for line 2 in the algorithm.
- 2. What can you say about A after one execution of the outer loop?
- 3. What is the case after two executions of the outer loop?
- 4. What should the last value of k be?
- 5. Now argue that that algorithm is correct by arguing that after the outer loop finishes executing, the input is always sorted.
- 6. Show how this works on A = (3, 1, 5, 7, 4, 6, 2) by showing A after each execution of the outer loop.
- 7. Can you think of any ways to improve this code? If so, are they worth it?