***AP Java Sorting Worksheet 1 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

**For parts A - F:** Put lists in ascending order. List the elements in order after *each pass*.

**A. Bubble Sort**

UNSORTED LIST

7 9 8 4 5 1

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after one pass

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after two passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after three passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after four passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after five passes

**C. Selection Sort**

UNSORTED LIST

7 9 8 4 5 1

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after one pass

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after two passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after three passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after four passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after five passes

**E. Insertion Sort**

UNSORTED LIST

7 9 8 4 5 1

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after one pass

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after two passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after three passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after four passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after five passes

**B. Bubble Sort**

UNSORTED LIST

8 6 1 4 3 5 2

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after one pass

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after two passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after three passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after four passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after five passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after six passes

**D. Selection Sort**

UNSORTED LIST

8 6 1 4 3 5 2

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after one pass

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after two passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after three passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after four passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after five passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after six passess

**F. Insertion Sort**

UNSORTED LIST

8 6 1 4 3 5 2

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after one pass

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after two passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after three passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after four passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after five passes

\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ after six passes