Data Structures in Python Chapter 5 - 1
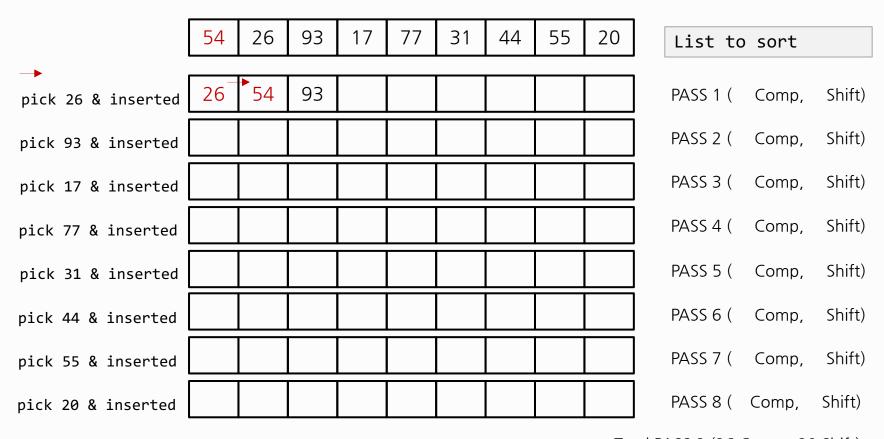
Exercises
- **Selection sort**
- Insertion sort

Selection Sort – Exercise

54	26	93	17	77	31	44	55	20

List to sort

PASS 1 (Comp,   Swap)

PASS 2 (Comp,   Swap)

PASS 3 (Comp,   Swap)

PASS 4 (Comp,   Swap)

PASS 5 (Comp,   Swap)

PASS 6 (Comp,   Swap)

PASS 7 (Comp,   Swap)

17	20	26	31	44	54	55	77	93

PASS 8 (Comp,   Swap)

Total PASS 8 (Comp,   Swap)

Insertion Sort – Exercise

54	26	93	17	77	31	44	55	20

List to sort

pick 26 & inserted

26	54	93						

PASS 1 (Comp,   Shift)

pick 93 & inserted

PASS 2 (Comp,   Shift)

pick 17 & inserted

PASS 3 (Comp,   Shift)

pick 77 & inserted

PASS 4 (Comp,   Shift)

pick 31 & inserted

PASS 5 (Comp,   Shift)

pick 44 & inserted

PASS 6 (Comp,   Shift)

pick 55 & inserted

PASS 7 (Comp,   Shift)

pick 20 & inserted

PASS 8 (Comp,   Shift)

Total PASS 8 (26 Comp, 20 Shift)