## insertion sort

step 1   22, 27, 16, 2, 18, 6

step 2   22, 27, 16, 2, 19, 6

step 3   22, 27, 16, 2, 18, 6   →   16, 22, 27, 2, 18, 6

step 4   16, 22, 27, 2, 18, 6   →   2, 16, 22, 27, 18, 6

step 5   2, 16, 22, 27, 18, 6   →   2, 16, 18, 22, 27, 6

step 6   2, 16, 18, 22, 27, 6   →   2, 6, 16, 18, 22, 27

$O(n)$

average case

## selection sort

step 1   [ 7, 3, 5, 8, 2, 9, 15, 6 ]   →   [2, 3, 5, 8, 7, 9, 15, 6]

step 2   [2, 3, 5, 8, 7, 9, 15, 6]

step 3   [2, 3, 5, 8, 7, 9, 15, 6]

step 4   [2, 3, 5, 8, 7, 9, 15, 6]   →   [2, 3, 5, 6, 7, 9, 15, 8]