2.1.7

2.1.7 Which method runs faster for an array in reverse order, selection sort or insertion sort?

Example array : 5 4 3 2 1

Selection sort. Even though it take N times (for the exmaple it is 5 times) to traverse the array, however, selection sort only need N times to swap the items, while insertion sort requires to exchange items for approximately N square times before the array is sorted, this is because every eachange can only move the item one unit to the left or one unit to the right.