Data Structure & Algorithms - Set 2

This test is intended to test your knowledge on data structure and algorithms.

Q: Insertion sort is preferred over selection sort for which of the following?

◉ Smaller number of records

◯ Larger number of records

Q: On a list of length n, sequential search has running time of _____

◯ O(n)

◯ O(n2)

◯ O(log n)

Q: Retrieval from a contiguous list of length has running time of _____

◯ O(n)

◯ O(n2)

◉ O(1)

◯ O(log n)

Q: Retrieval from a linked list of length n has running time of _____

◯ O(1)

◉ O(n)

◯ O(n2)

◯ O(log n)

Q: Which of the following sort requires moving of multiple entries after key comparisons?

◯ Selection sort

◉ Insertion sort

Score Card

Total no. of questions: **10**

No. of questions attempted: **10**

No. of correct answers: **10**

Overall score: **10/10**

Show Score

Show Answers

Q: Which of the following performs more number of comparisons when sorting?

🔵 Selection sort

⚪ Insertion sort

Q: Shell sort is an optimization over which of the following?

⚪ Insertion sort

⚪ Selection sort

Q: Which of the following can be termed as divide-and-conquer sorting algorithm?

⚪ Insertion sort

⚪ Selection sort

🔵 Quicksort

⚪ Shell Sort

Q: Which of the following has comparison tree of maximum height?

⚪ Binary Search

🔵 Sequential Search

Q: Which of the following sort algorithm does not have time complexity of O(n*n)?

⚪ Insertion Sort

⚪ Selection Sort

🔵 Merge Sort

⚪ Bubble Sort

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