What is internal sorting?

What is the worst-case time complexity of quicksort? Sort the following data using the quicksort algorithm:

20, 50, 45, 36, 8, 90, 85, 34

Differentiate between external sorting and internal sorting.

What is insertion Sort? Perform the insertion sort in the following data: 14, 33, 27, 10, 35, 19, 42, 44

Briefly describe selection sort. Show different passes required to perform selection sort on the following list of numbers: 76, 32, 43, 10, 87, 21, 65, 54

What is sorting? Sort the following data using insertion sort algorithm:

14, 33, 27, 10, 35, 19, 42, 44 in ascending order.

Why external sorting is slower than internal sorting?

Define sorting. Write a recursive algorithm for quick sort and trace the algorithm for following data.

35, 22, 10, 3, 48, 29, 6, 42, 8, 75

What do you mean by internal and external sorting?

What do you mean by adaptive and non-adaptive sorting?

Differentiate internal and external sorting. Consider the following max heap: 50, 30, 20, 15, 10, 8, 16. Insert a new node with value 60. [2+6]

Why do you need external sorting?

Sort the following elements using max heap and also analyze its computational complexity:

42, 36, 56, 27, 63, 72, 62, 15

Define stability and efficiency of sorting algorithms. Sort given data using radix sort.

Explain selection sort.

Define binary search with an example.

Sort the numbers 92, 73, 22, 49, 46, 98, 21, 9, 70, 63 using selection sort.

Compare sequential search with binary search.

Explain shell sort. Sort the numbers 92, 83, 22, 49, 36, 98, 12, 9, 70, 51 using shell sort.

Explain selection sort. Sort the data sequence 40, 90, 20, -10, 30, 5, 60, 100, 80 using selection sort.

Provide the best case, average case, and worst case for the following algorithms in Big-Oh: bubble sort, insertion sort, merge sort, and selection sort. Construct a heap sort for the following given list with an algorithm:

37, 33, 26, 92, 57, 18, 48, 25, 12, 86, 42, 22

Explain a binary search with an example. Consider a hash table of size 10. Using linear probing, insert the keys 62, 37, 36, 44, 67, 91, 82, and 107.

Define a radix sort with its algorithm. Trace the steps to sort the following set of data using merge sort:

85, 76, 46, 92, 30, 41, 12.

How can you compare either two sorting or two searching algorithms?

Create the heap structure from the following sequence data and sort them using heap sort:

12, 10, 1, 14, 6, 5, 8, 15, 3, 9, 7, 4, 11, 13, 2

Define internal and external sorting. Write an algorithm for quick sort and trace your algorithm for a given sequence of data 5, 43, 99, 20, 45, 7, 6, 63, 92,4.

What is internal and external sorting? Write an algorithm for shell sort.

What are the conflicting efficiency considerations in various sorting methods?

What are the conflicting efficiency considerations in various sorting methods? Compare and contrast the efficiency of Bubble sort, Quick sort, Insertion sort and Selection sort algorithms with an example.

Explain the basic principle of radix sort. Trace the sorting steps in quick sort and radix sort. 25,57,48,37,12,92,86,33

Write the algorithm of the quick sort including the steps of partition. Discuss the complexity of this algorithm.

Define Big 'O' notation. Compare linear logarithmic, linear and quadratic order function. Explain which elementary sorting algorithm (i.e. Bubble, Insertion, Selection) you choose when the input data is in almost sorted form.

What is heap? Explain quick sort algorithm with Big-oh notation in best case, average case and worst case and trace it to sort the data: 8, 10, 5, 12, 14, 5, 7, 13.

What is binary search? Write an algorithm to search an item using binary search.

What is insertion sort? Trace and sort the following data using insertion sort.

90, 57, 80, 10, 22, 21, 45, 9, 78.

What is sorting? Describe the Insertion.

Explain the binary searching.

Trace Binary Search algorithm for the data:

21, 36, 56, 79, 101, 123, 142, 203

And Search for the values 123 and 153.

Write Short notes on (any two):

* External Sorting

What are external and internal sorting? Explain partition strategies of Merge sort and Quick sort.

Trace these sort algorithms for following data: 11 45 61 33 55 9 83 25

Compare and contrast binary search and binary tree search.

Write a program in C for bubble sorting.

Explain binary search. Illustrate it with example.

Discuss merge sort. How you rate this sorting from selection sort?

Compare the partition strategies of Merge sort and Quick sort.

Explain the Bubble sort algorithm. Illustrate it with an example.

Write an algorithm and C function for merge sort.

Differentiate between selection sort and bubble sort.

Write a program to sort an array using selection sort.

Discuss binary search technique along with its efficiency.

Hand test the insertion sort algorithm with following array of numbers: 16 7 31 2 9 41 -10

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