

Bubble sort

[CIT341] Which of the following options is an instance of divide and conquer
Bubble sort

[CIT341] An array contains five the numbers 12,5,7,-1,2 to be sorted. If after the first iteration, the array is now 5,7,-1, 2, 12. Which algorithm is being used?
Bubble sort

[CIT341] Given a directed graph G with the set of edges $E = \{ (1, 2), (2, 4), (4, 2), (4, 1) \}$ what will be the set of edge of it transpose?
 $E = \{ (2, 1), (4,2), (2, 4), (1,4) \}$

[CIT341] An array $A[0..n-1]$ is sorted using the Insertion sort algorithm. The worst case and the best case running time of this computation respectively are
 $O(n^2)$ and $O(n)$

[CIT341] Which of the following algorithms relies on the principle of optimality?
Dynamic Programming

[CIT341] An array $A[0..n-1]$ is sorted using the merge-sort algorithm. The worst case and the best case running time of this computation respectively are
 $O(n \log n)$ and $O(n \log n)$

[CIT341] Consider the problem of searching an element x in an array of size n . which class of algorithm can we use If we want to solve the problem in $O(\log n)$
Divide and Conquer

[CIT341] The sorting technique where array to be sorted is partitioned again and again in such a way that all elements less than or equal to partitioning element appear before it and those which are greater appear after it, is called
Quicksort

[CIT341] Which of the following is true about graph?
A graph may contain no edges and many vertices

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