

Question 14: Which sorting algorithms is most efficient to sort string consisting of ASCII characters?

- A. Quick sort
- B. Heap sort
- C. Merge sort

Counting sort

Correct Answer: D

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MCQs On Sorting Algorithms



Question 13: Which of the following algorithms has lowest worst case time complexity?

- A. Insertion sort
- **B.** Selection sort
- C. Quick sort
- D. Heap sort

Correct Answer: D

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Question 12: The time complexity of heap sort in worst case is

- A. O(logn)
- B. O(n)
- . O(nlogn)
- D. O(n2)

Correct Answer: C



Question 11: Which of the following is not an in-place sorting algorithm?

- A. Selection sort
- B. Heap sort
- C. Quick sort
- D. Merge sort Cot

Correct Answer: D

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Question 10: Quick Sort can be categorized into which of the following?

- A. Brute Force technique
- 8. Divide and conquer
- C. Greedy algorithm
- D. Dynamic programming

Correct Answer: B

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Question 10: Quick Sort can be categorized into which of the following?

- A. Brute Force technique
- B. Divide and conquer
- C. Greedy algorithm
- D. Dynamic programming



Question 9: Which of the following sorting algorithms in its typical implementation gives best performance when applied on an array which is sorted or almost sorted.

A. Quick Sort 0 (n2)

B. Heap Sort ___ n of n

D. Insertion Sort

Correct Answer: D

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Question 7: The complexity of merge sort algorithm is

- A. O(n)
- B. O(logn)
- C. Ø(n2)
- D. O(n logn)

O(Value) O(Value) O(Value)

Correct Answer: D

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Question 15: A list of natring, each of length n is sorted into lexicographic order using the merge-sort algorithm. The worst case running time of this computation is

A. O (n log n)

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- B. O (n^2 log n)
- C. O $(n^2 + \log n)$
- D. O (n^2)



Question 5: What is the advantage of bubble sort over other sorting techniques?

- A. It is faster
- **B.** Consumes less memory
- C. Detects whether the input is already sorted
- D. All of the mentioned

Correct Answer: C

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Question 2: The given array is arr = {2,3,4,5,6} (bubble sort is implemented with a flag variable) The number of iterations in selection sort and bubble sort respectively are,

A. 5 and 4

B. 1 and 4

C. 0 and 4

. 4 and 1

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Correct Answer: B

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