

1. Which of the following algorithm is not in place algorithm?

- A. Bubble sort
- B. Merge sort
- C. Insertion sort
- D. Quick sort

Answer: B

2. Which of the following algorithm follows "Divide and Conquer"?

- A. Insertion sort
- B. Merge sort
- C. Quick sort
- D. Both B and C
- E. None of the above

Answer: D

3. Time complexity of binary search algorithm is

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

Answer: C

4. Which of the following algorithm will work in less amount of space?

- A. Merge sort
- B. Quick sort
- C. Both
- D. Only A

Answer: B

5. If element is found at last position of array in linear search the what will be the time complexity?

- A. $O(1)$
- B. $O(n \log n)$
- C. $O(n)$
- D. $O(n^2)$

Answer: C

6. When worst case situation will occur in quick sort?

- A. Array is not sorted and pivot = left/right
- B. Array is not sorted and pivot = mid
- C. Array is sorted and pivot = left/right
- D. Array is sorted and pivot = mid

Answer: C

7. What will be status of array (55, 44, 22, 66, 11, 33) after three passes in insertion sort?

- A. 44, 55, 22, 66, 11, 33
- B. 22, 44, 55, 66, 11, 33

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- C. 44, 22, 55, 66, 11, 33
- D. None of the above

Answer: B

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