Day2_Poll_Questions - Sorting



1.

in place sorting algorithm which needs the minimum number of swaps?

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

Answer: D

2.

Given Array of 6 elements as below: 23 32 45 56 68 74

To sort this array in ascending order, which of the following will use minimum comparisons?

- A. Selection sort
- **B.** Mergesort
- C. Insertion sort
- D. Quicksort using the last element as pivot

Answer: C

3.

The subproblems in divide and conquer are solved .

- A. Dependently
- **B.** Concurrently
- C. Independently
- **D. Parallely**

Answer: C

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4.

Quick sort algorithm requires a maximum of ____ stack space.

- A. O(n)
- B. O(n2)
- C. O(log n)
- D. None of these

Answer: C

5.

Which of the following is best running time to sort n integers in the range 0 to n2 -1?

- A. O(n2)
- B. O(log n)
- C. O(n log n)
- D. O(n)

Answer: C