Multiple Choice Questions

What is the best case performance of the bubble sort algorithm?
(A) O(n square)
(B) O(2 raised to the power n)
(C) O(n)
(D) O(n log n with base 2)

RIGHT ANSWER: (C)

How many comparisons will be made to sort the array arr={1,5,3,8,2} using counting sort?
a) 5
b) 7
c) 9
d) 0

RIGHT ANSWER: (D)

What is the auxiliary space requirement of counting sort?
a) O(1)
b) O(n)
c) O(log n)
d) O(n+k) k=range of input

RIGHT ANSWER: (D)

Which of the following is not in place sorting algorithm?
a) merge sort
b) quick sort
c) heap sort
d) insertion sort

RIGHT ANSWER: (A)

Which of the following sorting algorithms has the lowest worst-case complexity?
(A) Merge Sort
(B) Bubble Sort
(C) Quick Sort
(D) Selection Sort

RIGHT ANSWER: (B)