Practical 6

1. Mergesort guarantees to sort an array in _____ time, regardless of the input:
A.   Linear time
B.   Quadratic time
C.   Linearithmic time
D.   Logarithmic time

. The main disadvantage of MergeSort is:
A.   It is difficult to implement
B.   It uses extra space in proportion to the size of the input
C.   It is an unstable sort
D.   None of the above

. Merge sort makes use of which common algorithm strategy?
A.   Dynamic Programming
B.   Branch-and-bound
C.   Greedy approach
D.   Divide and conquer

 Which sorting algorithm will take the least time when all elements of the input array are identical?

A.   Insertion Sort
B.   MergeSort
C.   Selection Sort
D.   Bogo Sort

Which sorting algorithm should you use when the order of input is not known?
A.   Mergesort
B.   Insertion sort
C.   Selection sort
D.   Shell sort

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