

COP 5407: Spring 2019: QUIZ 2

Panther ID (No name please):

Mark all that apply. More than one may apply.

1. The worst-case time complexity of MERGESORT is:
 - (a) $O(n)$
 - (b) $O(n \log n)$
 - (c) $O(n^2)$
 - (d) $\Omega(n)$
 - (e) $\Omega(n \log n)$
 - (f) $\Omega(n^2)$
2. What is the fastest sorting algorithm if the input is already in sorted order?
 - (a) MERGESORT
 - (b) SELECTIONSORT
 - (c) QUICKSORT
 - (d) INSERTIONSORT
 - (e) HEAPSORT
3. Which sorting algorithms are **stable**?
 - (a) MERGESORT
 - (b) SELECTIONSORT
 - (c) QUICKSORT
 - (d) INSERTIONSORT
 - (e) HEAPSORT