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Week 2

Question set for Searching and sorting algorithms.

1) The worst case occurs in linear search algorithm when .......

A. Item is somewhere in the middle of the array

B. Item is not in the array at all

C. Item is the last element in the array

D. Item is the last element in the array or item is not there at all

Ans: D. Item is the last element in the array or item is not there at all

2) ............ is the method used by card sorter.

A. Radix sort

B. Insertion

C. Heap

D. Quick

Ans: A. Radix sort

3) ............order is the best possible for array sorting algorithm which sorts n item.

A. O(n logn)

B. O(n2)

C. O(n+logn)

D. O(logn)

Ans B. O(n2)

4) If the number of record to be sorted large and the key is long, then ...... sorting can be efficient.  
  
A. Merge   
  
B. Heap  
  
C. Quick  
  
D. Bubble

Ans: C. Quick

5) The time complexity of heap sort is ....  
  
A. O(n)  
  
B. O(logn)  
  
C. O(n2)  
  
D. O(n logn)

Ans. O(n logn)

6) The complexity of selection sort is .......  
  
A. O(n)  
  
B. O(n2)  
  
C. O(n logn)  
  
D. O(logn)

Ans. O(n2)

7) Merging k sorted tables into a single sorted table is called ......  
  
A. k way merging  
  
B. k th merge  
  
C. k+1 merge  
  
D. k-1 merge

Ans: k way merging

8) **Which of the following is not a stable sorting algorithm?**  
  
a) Insertion sort  
b) Selection sort  
c) Bubble sort  
d) Merge sort

Ans b) Selection sort

9) **Which of the following is not an in-place sorting algorithm?**  
  
a) Selection sort  
b) Heap sort  
c) Quick sort  
d) Merge sort

Ans: d) Merge sort

Sources:

<http://www.careerride.com/view.aspx?id=19637>

<http://www.siteforinfotech.com/2014/12/mcq-on-searching-sorting-algorithm-data-structure.html>