Started on	Friday, 7 June 2024, 9:55 PM
State	Finished
Completed on	Friday, 7 June 2024, 10:21 PM
Time taken	25 mins 38 secs
Grade	**9.00** out of 15.00 (**60**%)

Question **1**

Incorrect

Mark 0.00 out of 1.00

What is mean by stable sorting algorithm?

a. A sorting algorithm is stable if it doesn't preserver the order of duplicate keys

b. A sorting algorithm is stable if it preserves the order of non-duplicate keys ✗

c. A sorting algorithm is stable if it preserves the order of duplicate keys

d. A sorting algorithm is stable if it preserves the order of all keys

Your answer is incorrect.

The correct answer is:
A sorting algorithm is stable if it preserves the order of duplicate keys

Question **2**

Correct

Mark 1.00 out of 1.00

Algorithm design technique used in merge sort algorithm is

a. Greedy method

b. Backtracking

c. Dynamic programming

d. Divide and conquer ✓

Your answer is correct.

The correct answer is:
Divide and conquer

Question **3**

Correct

Mark 1.00 out of 1.00

Finding the location of a given item in a collection of items is called

a. Discovering

b. Finding

c. Searching ✓

d. Mining

Your answer is correct.

The correct answer is:
Searching

Question **4**

Correct

Mark 1.00 out of 1.00

Which of the following is not the required condition for a binary search algorithm?

a. The list must be sorted

b. Number values should only be present

Number values should only be present

c. There should be direct access to the middle element in any sublist

d. There must be a mechanism to delete and/or insert elements in the list ✓

Your answer is correct.

The correct answer is:
There must be a mechanism to delete and/or insert elements in the list

Question **5**

Correct

Mark 1.00 out of 1.00

Which of the following is not a limitation of binary search algorithm?

a. There must be a mechanism to access middle element directly

b. Must use a sorted array

c. Binary search algorithm is not efficient when the data elements more than 1500 ✓

d. Requirement of sorted array is expensive when a lot of insertion and deletions are needed

Your answer is correct.

The correct answer is:
Binary search algorithm is not efficient when the data elements more than 1500

Question **6**

Incorrect

Mark 0.00 out of 1.00

Very slow way of sorting is_____

a. Bubble sort

b. Quick sort

c. Insertion sort

d. Heap sort ✗

Your answer is incorrect.

The correct answer is:
Insertion sort

Question **7**

Incorrect

Mark 0.00 out of 1.00

Which of the following is not an in-place sorting algorithm?

a. Selection sort

b. Heap sort ✗

c. Merge sort

d. Quick sort

Your answer is incorrect.

The correct answer is:
Merge sort

Question **8**

Correct

Mark 1.00 out of 1.00

_____sort is the simplest sorting algorithm that works by repeatedly swapping the adjacent elements in case they are unordered in n-1 passes.

a. Bubble ✓

b. Complexity

c. Insertion

d. Selection

Your answer is correct.

The correct answer is: Bubble

Question **9**

Incorrect

Mark 0.00 out of 1.00

_____is putting an element in the appropriate place in a sorted list yields a larger sorted order list.

a. Extraction

b. Insertion

c. Selection ✗

d. Distribution

Your answer is incorrect.

The correct answer is:
Insertion

Question **10**

Correct

Mark 1.00 out of 1.00

Given an array arr = {45,77,89,90,94,99,100} and key = 99; what are the mid values(corresponding array elements) in the first and second levels of recursion?

a. 89 and 99

b. 90 and 94

c. 89 and 94

d. 90 and 99 ✓

Your answer is correct.

The correct answer is:
90 and 99

Question **11**

Incorrect

Mark 0.00 out of 1.00

The average case occurs in the linear search algorithm

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

b. When the item is somewhere in the middle of the array

c. When the item is not the array at all

d. When the item is the last element in the array ✗

Your answer is incorrect.

The correct answer is:
When the item is somewhere in the middle of the array

Question **12**

Correct

Mark 1.00 out of 1.00

_____ search takes a sorted/ordered list and divides it in the middle.

a. Both (1) & (3)

b. Hash

c. Linear

d. Binary ✓

Your answer is correct.

The correct answer is:
Binary

Question **13**

Incorrect

Mark 0.00 out of 1.00

Given an array arr = {45,77,89,90,94,99,100} and key = 100; What are the mid values(corresponding array elements) generated in the first and second iterations?

a. 89 and 94

b. 94 and 99

c. 90 and 99

d. 90 and 100 ✗

Your answer is incorrect.

The correct answer is:
90 and 99

Question **14**

Correct

Mark 1.00 out of 1.00

In _____ checks the elements of a list, one at a time, without skipping any element.

a. Binary search

b. Both (1) & (3)

c. Linear search ✓

d. Hash search

Your answer is correct.

The correct answer is:
Linear search

Question **15**

Correct

Mark 1.00 out of 1.00

Two-way merge sort algorithm is used to sort the following elements in ascending order.
200,470,150,80,90,40,400,300,120,70
What is the order of these elements after second pass of the merge sort algorithm?

- a. 80,150,200,470,40,90,300,400,70,120 ✓
- b. 40,70,80,90,120,150,200,300,400,470
- c. 200,470,80,150,40,90,300,400,70,120
- d. 40,80,90,150,200,300,400,470,70,120

Your answer is correct.

The correct answer is:
80,150,200,470,40,90,300,400,70,120

◄ Searching

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