CS23336-Introduction to Python Programming

Started on Sunday, 17 November 2024, 10:23 PM

State Finished

Completed on Sunday, 17 November 2024, 10:27 PM

Time taken 3 mins 56 secs

Question 1

Complete
Marked out of 1.00

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Question text

Which sorting algorithm would be preferred for its divide-and-conquer approach?

—Question 1 Answer—

a.
Merge Sort
b.
Linear Search
C.
Bubble Sort
d.
Binary Search

Question 2

Complete
Marked out of 1.00

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Question text

How does Merge Sort achieve its efficiency?

-Question 2 Answer
a.
By breaking the input into smaller parts and merging them
b.
By sorting data in a single pass
C.
By using the bubble-up method
d.
By comparing elements sequentially

Question 3

Complete
Marked out of 1.00
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Question text

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?

Almostrom : Amorrom	
Question 3 Answer—	
a.	
40,80,90,150,200,300,400,470,70,120	
b.	
00.450.200.470.40.00.200.400.70.420	
80,150,200,470,40,90,300,400,70,120	
c.	
200,470,80,150,40,90,300,400,70,120	
\cap	
$\overset{\smile}{d}$.	
40,70,80,90,120,150,200,300,400,470	

Question 4

Complete Marked out of 1.00

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Question text

Algorithm design technique used in merge sort algorithm is

-Question 4 Answer	
a.	
Divide and conquer	
b.	
D.	
Greedy method	
c.	
C.	
Dynamic programming	
d.	
Backtracking	
Dackii ackiiig	

Question 5

Complete

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Flag question

Question text

What is a significant characteristic of Bubble Sort?

-Question 5 Answer-
a.
It divides the list into sublists
b.
It bubbles up the largest element in each pass
c.
It uses the heap data structure

O d. It recursively sorts subproblems
Question 6
Complete Marked out of 1.00 Flag question
Question text
Why is sorting important for selection operations? —Question 6 Answer————————————————————————————————————
0
a. It makes the data unsorted
b. It complicates the selection of items
c. It makes it easier to select items based on their relationship to the rest of the items
d. It slows down the process
Question 7
Complete Marked out of 1.00 Flag question
Question text
Which built-in Python function is used to sort data? —Question 7 Answer————————————————————————————————————
O a.
order()
b. arrange()
c. sorted()
⊙d.
sort()
Question 8
Complete Market 1 00
Marked out of 1.00 Flag question
Question text
What is the primary benefit of using sorting algorithms in programming?
Question 8 Answer
a. Decreases the efficiency of algorithms
O b.
Makes data harder to manage
O C.
Makes code execution slower

d.Provides a basis for other algorithms to work efficiently
Question 9
Complete Marked out of 1.00 Flag question
Question text
Which sorting algorithm involves comparing elements and swapping adjacent items that are out of order? Question 9 Answer a. Merge Sort b. Bubble Sort c. Binary Search d. Linear Search
Question 10
Complete Marked out of 1.00 Flag question Question text
What does the Bubble Sort algorithm primarily focus on during each pass?
Question 10 Answer a. Sorting the entire list in one pass
b.Bubbling up the largest element to its correct position
C. Dividing the list into halves
d. Bubbling up the smallest element
Question 11
Complete Marked out of 1.00 Flag question
Question text
Which sorting algorithm is based on repeatedly dividing the list into halves? Question 11 Answer
a. Bubble Sort
b. Merge Sort
C. Insertion Sort

Od. Quick Sort
Question 12
Complete Marked out of 1.00 Flag question
Question text
Why is it advantageous to sort data before performing duplicate analysis? —Question 12 Answer — — — — — — — — — — — — — — — — — —
Question 13
Complete Marked out of 1.00 Flag question Question text
What is Bubble Sort known for?
Ouestion 13 Answer a. Sorting data in a non-sequential manner b. Using the divide-and-conquer approach ●
c. Bubbling up the largest element to its correct position with each pass
d. Being the most efficient sorting algorithm
Question 14
Complete Marked out of 1.00 Flag question Question text
In Merge Sort, what happens after dividing the input into smaller parts?
Question 14 Answer
a. Each part is searched for a specific element
○ b.
The parts are merged without sorting
c. The parts are ignored



Question 15

Complete
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Flag question

Question text

What is mean by stable sorting algorithm?

	-Question 15 Answer
	Question 13 Aliswer
ı	
	a.
	A sorting algorithm is stable if it preserves the order of non-duplicate keys
	b.
	A sorting algorithm is stable if it preserves the order of duplicate keys
	\cap
	C.
	··
	A sorting algorithm is stable if it doesn't preserver the order of duplicate keys
	d.
	u.
	A sorting algorithm is stable if it preserves the order of all keys
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