CS23336-Introduction to Python Programming

Started on Thursday, 7 November 2024, 10:11 PM

State Finished

Completed on Thursday, 7 November 2024, 10:26 PM

Time taken 14 mins 53 secs

Question 1

Complete
Marked out of 1.00

Flag question

Question text

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

-Question 1 Answer-	
-Question i Aliswei	
\circ	
a.	
Linear Search	
\bigcirc	
b.	
Bubble Sort	
\circ	
C.	
Binary Search	
d.	
Merge Sort	

Question 2

Complete
Marked out of 1.00

Flag question

Question text

What is sorting in the context of computer science?

Question 3

Complete
Marked out of 1.00

Flag question

Question text

What is a significant characteristic of Bubble Sort?

-Question 3 Answer-
Question 5 Answer
a.
It uses the heap data structure
b.
It divides the list into sublists
C.
It bubbles up the largest element in each pass
d.
It recursively sorts subproblems

Question 4

Complete
Marked out of 1.00

Flag question

Question text

Which sorting algorithm is described as making multiple passes through a list, comparing elements, and swapping adjacent items that are out of order?

—Question 4 Answer—

ick Sort	
bble Sort	
ertion Sort	
erge Sort	

Question 5

Complete
Marked out of 1.00
Flag question

Question text

Why is it advantageous to sort data before performing duplicate analysis? —Question 5 Answer

a.	
It has no effect on the analysis process	
b.	
It allows for quicker identification of duplicates	
c.	
It makes the analysis slower	
d.	
It complicates the analysis process	

Question 6

Complete
Marked out of 1.00

Flag question

Question text

Which of the following best describes the term "sorting" in computer science? —Question 6 Answer—
a. Arranging data in a specific order O b.
Merging two datasets C.
Finding a specific element in a list O d.
Removing duplicates from a list
Question 7
Complete Marked out of 1.00 Flag question
Question text
is putting an element in the appropriate place in a sorted list yields a larger sorted order list.
-Question 7 Answer
○ a.
Selection
● b.
Insertion
O c.
Distribution
○ d.
Extraction
Question 8
Complete Marked out of 1.00
Flag question
Question text
What is a key disadvantage of Bubble Sort compared to more advanced algorithms like Merge Sort? —Question 8 Answer—
O a.
Bubble Sort is difficult to implement O b.
Bubble Sort does not guarantee sorted order ●
c. Bubble Sort is less efficient for large lists
d. Bubble Sort cannot handle duplicate elements

Complete Marked out of 1.00
Interest out of 1.00 If lag question
Question text
Which algorithm is efficient for analyzing the frequency distribution of items in a list? Question 9 Answer a. Bubble Sort b. Linear Search c. Merge Sort
d. Quick Sort
Question 10
Complete Marked out of 1.00 Flag question
Question text
Which sorting algorithm is based on repeatedly dividing the list into halves? Question 10 Answer a. Quick Sort b. Merge Sort c. Bubble Sort d. Insertion Sort
Question 11
Complete Marked out of 1.00 Flag question
Question text
What is mean by stable sorting algorithm?
Question 11 Answer 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 C.
A sorting algorithm is stable if it preserves the order of all keys

d. A sorting algorithm is stable if it doesn't preserver the order of duplicate keys **Question 12** 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 12 Answer \bigcirc Binary Search \bigcirc b. Linear Search C. **Bubble Sort** \bigcirc d. Merge Sort **Question 13** Complete Marked out of 1.00 Flag question **Question text** What is Bubble Sort known for? Question 13 Answer a. Using the divide-and-conquer approach b. Bubbling up the largest element to its correct position with each pass

 \bigcirc c. Being the most efficient sorting algorithm \bigcirc Sorting data in a non-sequential manner

Question 14

Complete

Marked out of 1.00

Flag question

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 aft

vnat is the order of these elements after second pass of the merge sort algorithm? -Ouestion 14 Answer-
Question 14 Answer
a.
200,470,80,150,40,90,300,400,70,120
b.

80,150,200,470,40,90,300,400,70,120	
○ c.	
40,70,80,90,120,150,200,300,400,470	
○ d.	
40,80,90,150,200,300,400,470,70,120	

Question 15

Complete
Marked out of 1.00

Flag question

Question text

What is one advantage of sorting a list before performing a search operation?
—Question 15 Answer—

a.
It has no effect on the search operation
b.
It allows for faster searching
C.
It makes the search operation slower
d.
It increases the number of comparisons needed

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Question 6 This page Question 7 This page Question 8 This page Question 9 This page Question 10 This page Question 11 This page Question 12 This page Question 13 This page Question 14 This page Question 15 This page

Show one page at a time Finish review