CS23336-Introduction to Python Programming

Started on Monday, 11 November 2024, 11:41 PM

Finished State

Completed on Monday, 11 November 2024, 11:48 PM

Time taken 7 mins 34 secs

Question 1

Complete Marked out of 1.00 Flag question

Question text

What is Bubble Sort known for?

Question 1 Answer —

| a. |
|--|
| Bubbling up the largest element to its correct position with each pass |
| |
| b. |
| Using the divide-and-conquer approach |
| |
| C. |
| Being the most efficient sorting algorithm |
| |
| d. |
| Sorting data in a non-sequential manner |

Question 2

Complete Marked out of 1.00 Flag question

Question text

What is the primary advantage of the divide-and-conquer approach in sorting algorithms?

-Question 2 Answer-It avoids the need for recursion It only works on small datasets c. It allows for efficient parallel processing and sorting of data

| d. It simplifies the sorting process by using only one pass | | |
|---|--|--|
| Question 3 | | |
| Complete Marked out of 1.00 Flag question | | |
| Question text | | |
| In the context of sorting, what does the divide-and-conquer approach involve? Question 3 Answer a. Dividing the input into parts, solving each part, and combining the solutions b. Sorting data in a single pass c. Rearranging data without sorting d. Sorting data sequentially | | |
| Question 4 | | |
| Complete Marked out of 1.00 Flag question | | |
| Question text | | |
| Algorithm design technique used in merge sort algorithm is | | |
| Question 4 Answer a. Backtracking b. | | |
| Greedy method | | |
| © C. | | |
| Divide and conquer | | |
| | | |

| Dynamic programming |
|--|
| nestion 5 |
| mplete rked out of 1.00 g question |
| estion text |
| aich sorting algorithm would be preferred for its divide-and-conquer approach? Question 5 Answer Bubble Sort Merge Sort Binary Search di Linear Search |
| nestion 6 |
| mplete rked out of 1.00 g question |
| estion text |
| cuestion 6 Answer Question 6 Answer cort() currange() curred() curred() curred() |
| nestion 7 |

d.

Complete

Marked out of 1.00 Flag question

Question text

What is one of the key advantages of using the built-in sorted() function in Python?

| — Question 7 Answer — |
|---|
| Question / This wer |
| |
| a. |
| It is less efficient than custom sorting algorithms |
| |
| b. |
| It sorts data out of the box efficiently |
| |
| C. |
| It requires external libraries |
| |
| d. |
| It only works with integer arrays |

Question 8

Complete Marked out of 1.00 Flag question

—Question 8 Answer –

Question text

Which of the following is a key reason for the importance of sorting algorithms?

| a. |
|--|
| Sorting makes it harder to search for items |
| |
| b. |
| Sorting is rarely used in programming |
| |
| C. |
| Sorting decreases the efficiency of selection operations |
| |
| d. |
| Sorting helps in finding duplicates quickly |

Question 9

Complete Marked out of 1.00 Flag question

Question text

Which of the following best describes the term "sorting" in computer science?

| -Question 9 Answer- |
|--|
| |
| a. |
| Removing duplicates from a list |
| |
| b. |
| Arranging data in a specific order |
| |
| C. |
| Merging two datasets |
| |
| d. |
| Finding a specific element in a list |
| |
| Question 10 |
| Rucodon 10 |
| Complete |
| Marked out of 1.00 |
| lag question |
| |
| Question text |
| |
| Vhat is a significant characteristic of Bubble Sort? |
| -Question 10 Answer- |
| |
| a. |
| It uses the heap data structure |

a.
It uses the heap data structure

b.
It recursively sorts subproblems

c.
It bubbles up the largest element in each pass

d.
It divides the list into sublists

Question 11

Complete Marked out of 1.00 Flag question

Question text

Which built-in Python function is used to sort data?

| Which built in I y thon function is used to soft data. |
|---|
| —Question 11 Answer———————————————————————————————————— |
| Question 111ms wer |
| |
| a. |
| a. sorted() |
| |
| b. |
| b. order() |
| |

| c. sort() |
|--|
| |
| d |
| arrange() |
| Question 12 |
| Complete Marked out of 1.00 |
| Flag question |
| Question text |
| Which algorithm typically follows a divide-and-conquer structure? — Question 12 Answer |
| |
| a. Linear Search |
| b. |
| Merge Sort |
| c. |
| Binary Search |
| d. |
| Bubble Sort |
| Question 13 |
| 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 13 Answer |
| |
| a. |
| Extraction |
| |
| b. |
| Distribution |
| |
| C. |
| |

| Insertion | | |
|---|--|--|
| | | |
| d. | | |
| Selection | | |
| Question 14 | | |
| Complete | | |
| Marked out of 1.00 | | |
| Flag question | | |
| Question text | | |
| Which algorithm is efficient for analyzing the frequency distribution of items in a list? — Question 14 Answer — | | |
| | | |
| a. | | |
| Bubble Sort | | |
| | | |
| b. Linear Search | | |
| Linear Search | | |
| C. | | |
| Merge Sort | | |
| | | |
| d. | | |
| Quick Sort | | |
| Question 15 | | |
| Complete Marked out of 1.00 Flag question | | |
| Question text | | |
| The process of placing or rearranging a collection of elements into a particular order is known as | | |
| —Question 15 Answer— | | |
| | | |
| a. | | |
| Searching | | |
| | | |
| b. | | |
| Merging | | |
| | | |
| C. | | |
| Rearranging | | |

d.

Sorting

Finish review

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