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 REC-OCATS-1

CS23336-Introduction to Python Programming

Started on Monday, 11 November 2024, 10:55 AM

State Finished


Completed on Monday, 11 November 2024, 11:02 AM

Time taken 7 mins 39 secs

Question 1

Complete

Marked out of 1.00

 Flag question

Question text

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

Question 1 Answer

☐

a.
Merging two datasets

☒

b.
Arranging data in a specific order

☐

c.
Removing duplicates from a list


☐

d.
Finding a specific element in a list

Question 2

Complete

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Question text

What is the primary benefit of using sorting algorithms in programming?

Question 2 Answer

☐

a.
Decreases the efficiency of algorithms

☒

b.
Provides a basis for other algorithms to work efficiently

☐

c.
Makes code execution slower


☐

d.
Makes data harder to manage

Question 3

Complete

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 Flag question

Question text


Which Python function would you use to sort a list in-place?

Question 3 Answer

- ☐
- a.
order()
- ☐
- b.
arrange()
- ☐
- c.
sorted()
- ☒
- d.
sort()

Question 4

Complete
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 Flag question

Question text


Which algorithm is efficient for analyzing the frequency distribution of items in a list?

Question 4 Answer

- ☒
- a.
Merge Sort
- ☐
- b.
Linear Search
- ☐
- c.
Bubble Sort
- ☐
- d.
Quick Sort

Question 5

Complete
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 Flag question

Question text


What is sorting in the context of computer science?

Question 5 Answer

- ☐
- a.
Searching for data in a list
- ☐
- b.
Inserting data into a list
- ☐
- c.
Deleting data from a list
- ☒
- d.
Arranging data in a particular format

Question 6

Complete
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 Flag question

Question text

What is one of the first steps in a divide-and-conquer algorithm like Merge Sort?

Question 6 Answer


Question 6 Answer

- ☐
- a.
Comparing each element with the others
- ☒
- b.
Dividing the input into smaller subproblems
- ☐
- c.
Sorting the entire list sequentially
- ☐
- d.
Combining sorted sublists

Question 7

Complete

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 Flag question

Question text

Which sorting algorithm involves comparing elements and swapping adjacent items that are out of order?


Question 7 Answer

- ☐
- a.
Bubble Sort
- ☒
- b.
Linear Search
- ☐
- c.
Merge Sort
- ☐
- d.
Binary Search

Question 8

Complete

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 Flag question

Question text

What is Bubble Sort known for?


Question 8 Answer

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

Question 9

Complete

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 Flag question

Question text

Why is it advantageous to sort data before performing duplicate analysis?

Question 9 Answer



a.

It allows for quicker identification of duplicates



b.

It makes the analysis slower



c.

It has no effect on the analysis process



d.

It complicates the analysis process

Question 10

Complete

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Flag question

Question text

In the context of sorting, what does the divide-and-conquer approach involve?

Question 10 Answer



a.

Sorting data sequentially



b.

Sorting data in a single pass



c.

Rearranging data without sorting



d.

Dividing the input into parts, solving each part, and combining the solutions

Question 11

Complete

Marked out of 1.00



Flag question

Question text

Which algorithm typically follows a divide-and-conquer structure?

Question 11 Answer



a.

Binary Search



b.

Merge Sort



c.

Bubble Sort



d.

Linear Search

Question 12

Complete

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Flag question

Question text


Which of the following best describes the process of Merge Sort?

Question 12 Answer

- ☐ a.
It compares adjacent elements and swaps them if necessary
- ☒ b.
It divides the list into two halves, sorts each half, and then merges them
- ☐ c.
It builds a sorted array one element at a time
- ☐ d.
It repeatedly finds the minimum element and moves it to the sorted part of the list

Question 13

Complete
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 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.
Distribution
- ☒ b.
Insertion
- ☐ c.
Selection
- ☐ d.
Extraction

Question 14

Complete
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 Flag question

Question text

Very slow way of sorting is _____

Question 14 Answer

- ☐ a.
Heap sort
- ☐ b.
Quick sort
- ☐ c.
Insertion sort



d.

Bubble sort

Question 15

Complete

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Flag question

Question text

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

Question 15 Answer



a.

Sorting decreases the efficiency of selection operations



b.

Sorting is rarely used in programming



c.

Sorting helps in finding duplicates quickly



d.

Sorting makes it harder to search for items

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