RAJALAKSHMI ENGINEERING COLLEGE
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

REC-OCATS-1

CS23336-Introduction to Python Programming

Started on	Monday, 11 November 2024, 4:50 PM
State	Finished
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Time taken	8 mins 2 secs

Question 1

Complete
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Question text

What is a significant characteristic of Bubble Sort?

Question 1 Answer

○
a.
It divides the list into sublists
○
b.
It uses the heap data structure
○
c.
It recursively sorts subproblems
◉
d.
It bubbles up the largest element in each pass

Question 2

Complete
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Question text

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

Question 2 Answer

◉
a.

Merge sort

○
b.

Quick sort

○
c.

Selection sort

○
d.

Heap sort

Question 3

Complete
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Question text

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

Question 3 Answer

◉
a.
Provides a basis for other algorithms to work efficiently
○
b.
Makes code execution slower
○
c.
Makes data harder to manage
○
d.
Decreases the efficiency of algorithms

Question 4

Complete
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Question text

Very slow way of sorting is_____

Question 4 Answer

◉
a.

Bubble sort

○
b.

Heap sort

○
c.

Insertion sort

○
d.

Quick sort

Question 5

Complete
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Question text

In Merge Sort, what happens after the two halves of the list are sorted?

Question 5 Answer

○
a.
They are discarded
◉
b.

They are combined to form a single sorted list
○
c.
They are compared element by element
○
d.
They are split again into smaller sublists

Question 6

Complete
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Question text

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

Question 6 Answer

○
a.

Distribution

○
b.

Extraction

○
c.

Selection

◉
d.

Insertion

Question 7

Complete
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Question text

The process of placing or rearranging a collection of elements into a particular order is known as

Question 7 Answer

○
a.

Rearranging

◉
b.

Sorting

○
c.
Merging
○
d.

Searching

Question 8

Complete
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Question text

What is sorting in the context of computer science?

Question 8 Answer

◉
a.
Arranging data in a particular format
○
b.
Deleting data from a list
○
c.
Inserting data into a list
○
d.
Searching for data in a list

Question 9

Complete
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Question text

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

Question 9 Answer

○
a.
It requires external libraries
○
b.
It only works with integer arrays
○
c.
It is less efficient than custom sorting algorithms
◉
d.
It sorts data out of the box efficiently

Question 10

Complete
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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 10 Answer

○
a.
Merge Sort
○
b.
Quick Sort
◉
c.
Bubble Sort
○
d.
Insertion Sort

Question 11

Complete
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Question text

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

Question 11 Answer

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

Question 12

Complete
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Question text

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

Question 12 Answer

○
a.
Rearranging data without sorting
○
b.
Sorting data in a single pass
○
c.
Sorting data sequentially
◉
d.
Dividing the input into parts, solving each part, and combining the solutions

Question 13

Complete
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Question text

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

Question 13 Answer

◉
a.
Merge Sort
○
b.
Binary Search
○
c.
Bubble Sort
○
d.
Linear Search

Question 14

Complete
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Question text

What type of problems can sorting help solve efficiently?

Question 14 Answer

○
a.
Selection

◉
b.
All of the above

○
c.
Duplicates

○
d.
Searching

Question 15

Complete
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Question text

What is a key disadvantage of Bubble Sort compared to more advanced algorithms like Merge Sort?

Question 15 Answer

◉
a.
Bubble Sort is less efficient for large lists

○
b.
Bubble Sort cannot handle duplicate elements

○
c.
Bubble Sort does not guarantee sorted order

○
d.
Bubble Sort is difficult to implement

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