CS23336-Introduction to Python Programming

Started on Friday, 8 November 2024, 12:38 PM **State** Finished

Completed on Friday, 8 November 2024, 12:45 PM

Time taken 7 mins 10 secs

Question 1

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?

_	-Ougstion 1 Answer
Γ	-Question 1 Answer
l	a.
l	It requires external libraries
l	b.
l	It only works with integer arrays
l	C.
l	It sorts data out of the box efficiently
l	d.
	It is less efficient than custom sorting algorithms
1	

Question 2

Complete Marked out of 1.00 Flag question

Question text

Why is sorting important for selection operations?

-Question 2 Answer
Question 2 Answer
a.
It slows down the process
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 makes the data unsorted
Question 3
Complete Marked out of 1.00 Flag question
Question text
How does Merge Sort achieve its efficiency? Question 3 Answer a. By sorting data in a single pass b. By comparing elements sequentially c. By breaking the input into smaller parts and merging them d. By using the bubble-up method
Question 4
Complete

Complete Marked out of 1.00 Flag question

Question text

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

Question 4 Answer—
a.
order()
b.
sort()
c.
sorted()
d.
arrange()

Question 5

Complete Marked out of 1.00 Flag question

Question text

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

— (blocklop 5 Angwor — —			
Question 5 Answer——	<u> </u>	<u> </u>	
a.			
Binary Search			
b.			
Merge Sort			
c.			
Linear Search			
d.			
Bubble Sort			

Question 6

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Question text

What does the Bubble Sort algorithm primarily focus on during each pass?

	—Question 6 Answer
ı	Question o Answer
	a.
	Sorting the entire list in one pass
	b.
	Bubbling up the smallest element
	C.
	Dividing the list into halves
	d.
	Bubbling up the largest element to its correct position
-	

Question 7

Complete Marked out of 1.00 Flag question

Question text

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

—Question / Answer————————————————————————————————————
a.
Sorting helps in finding duplicates quickly
b.
Sorting decreases the efficiency of selection operations
c.
Sorting makes it harder to search for items
d.
Sorting is rarely used in programming

Question 8

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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?

— Ouestion & Answer

-Question 8 Answer	
a.	
Bubble Sort	
b.	
Merge Sort	
C.	
Insertion Sort	
d.	
Quick Sort	

Question 9

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Question text

What is one advantage of sorting a list before performing a search operation?

— Question 9 Answer
Question / Answer
a.
It allows for faster searching
b.
It makes the search operation slower
c.
It increases the number of comparisons needed
d.
It has no effect on the search operation

Question 10

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Question text

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

ſ	-Question 10 Answer
l	
l	a.
	Merge sort
l	
l	b.
	Quick sort
l	
l	c.
	Heap sort
l	
l	d.
	Selection sort
I	

Question 11

Complete Marked out of 1.00 Flag question

Question text

Algorithm design technique used in merge sort algorithm is Question 11 Answera. Dynamic programming b. Backtracking c. Greedy method d. Divide and conquer **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 Answera. Linear Search b. **Bubble Sort** c. Binary Search d. Merge Sort **Question 13** Complete

Marked out of 1.00 Flag question

Question text Very slow way of sorting is_____ -Question 13 Answera. Quick sort b. Insertion sort c. **Bubble** sort d. Heap sort **Question 14** Complete Marked out of 1.00 Flag question **Question text** explain how an algorithm will perform when the input grows larger. Question 14 Answer a. Sorting b. Merging

c.

Searching

d.			
Complexity			

Question 15

Complete Marked out of 1.00 Flag question

Question text

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

—Question 15 Answer
a.
They are compared element by element
b.
They are combined to form a single sorted list
C.
They are split again into smaller sublists
d.
They are discarded

Finish review