# **CS23336-Introduction to Python Programming**

Started on Sunday, 10 November 2024, 6:49 PM

**State** Finished

Completed on Sunday, 10 November 2024, 6:54 PM

Time taken 5 mins 21 secs

## **Question 1**

Complete
Marked out of 1.00

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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 I Answer-			
$\circ$			
a.			
Quick Sort			
b.			
Bubble Sort			
$\circ$			
C.			
Merge Sort			
O			
d.			
Insertion Sort			

#### **Question 2**

Complete
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#### **Question text**

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

-Question 2 Answer	ī
a.	
It allows for efficient parallel processing and sorting of data	
b.	
It only works on small datasets	
C.	
It avoids the need for recursion	
d.	
It simplifies the sorting process by using only one pass	

### **Question 3**

Complete
Marked out of 1.00

Flag question

#### **Question text**

Which sorting algorithm is based on repeatedly dividing the list into halves?

-Question 3 Answer-

a.	
Quick Sort	
Ŏ	
b.	
Bubble Sort	
C.	
Merge Sort	
d.	
Insertion Sort	

# **Question 4**

Complete
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#### **Question text**

Which algorithm typically follows a divide-and-conquer structure?
—Ouestion 4 Answer

Q WOOD 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
a.
Bubble Sort
b.
Linear Search
c.
Binary Search
d.
Merge Sort

# **Question 5**

Complete
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#### **Question text**

What is one advantage of sorting a list before performing a search operation? —Question 5 Answer—

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

# **Question 6**

Complete
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#### **Question text**

What is mean by stable sorting algorithm?

⊢Question 6 Answer

<ul><li>a.</li></ul>
A sorting algorithm is stable if it preserves the order of non-duplicate keys
O b.
A sorting algorithm is stable if it doesn't preserver 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 preserves the order of duplicate keys
Question 7 Complete
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Question toyt

### **Question text**

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

-Question 7 Answer-
a.
Quick sort
b.
Heap sort
<ul><li>●</li><li>C.</li></ul>
c.
c. Merge sort
c.  Merge sort
c. Merge sort
c.  Merge sort
c.  Merge sort  O d.

# **Question 8**

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 8 Answer———		
a.		
Merge Sort		
b.		
Quick Sort		
Ò		
c.		
Bubble Sort		

d. Linear Search
Question 9
Complete Marked out of 1.00  Flag question
Question text
Why is it advantageous to sort data before performing duplicate analysis?  —Question 9 Answer  —  a.  It makes the analysis slower  —  b.
It allows for quicker identification of duplicates  C.  It complicates the analysis process  C.
d. It has no effect on the analysis process
Question 10
Complete Marked out of 1.00  Plag question
Question text
What does the Bubble Sort algorithm primarily focus on during each pass?  —Question 10 Answer  —  a.  Sorting the entire list in one pass  —  b.
Dividing the list into halves  C.
Bubbling up the smallest element  o d.
Bubbling up the largest element to its correct position
Question 11
Complete Marked out of 1.00  Flag question
Question text
Which sorting algorithm would be preferred for its divide-and-conquer approach?  —Question 11 Answer  —  a.  Bubble Sort
b. Binary Search
C. Linear Search

d. Merge Sort
Question 12
Complete Marked out of 1.00  Flag question
Question text
Why is sorting important for selection operations?  Question 12 Answer  a.  It complicates the selection of items  b.  It makes the data unsorted  c.  It slows down the process  d.  It makes it easier to select items based on their relationship to the rest of the items
Question 13  Complete Marked out of 1.00  Flag question  Question text
Which built-in Python function is used to sort data?  Question 13 Answer  a. arrange()  b. sort()  c. order()  d. sorted()
Question 14
Complete Marked out of 1.00  Flag question
Question text
In the context of sorting, what does the divide-and-conquer approach involve?  Question 14 Answer  a.  Sorting data sequentially  b.  Dividing the input into parts, solving each part, and combining the solutions  c.  Sorting data in a single pass

d.		
Rearranging data without sorting		

# **Question 15**

Complete
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#### **Question text**

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

Finish review

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