## CS23336-Introduction to Python Programming

Started on	Sunday, 17 November 2024, 6:55 PM
State	Finished
Completed on	Sunday, 17 November 2024, 7:13 PM
Time taken	17 mins 31 secs
Question 1	
Complete	
Marked out of 1.00	
Flag question	
Which sorting algo	rithm is described as making multiple passes through a list, comparing
elements, and swa	pping adjacent items that are out of order?
a. Merge Sor	
<ul><li>b. Bubble So</li></ul>	
c. Insertion S	
d. Quick Sort	
Question <b>2</b>	
Complete	
Marked out of 1.00	
NA/1	
what is one advant	tage of sorting a list before performing a search operation?
a. It makes tl	he search operation slower
	es the number of comparisons needed
	effect on the search operation
	or faster searching
Question <b>3</b>	
Complete	
Marked out of 1.00	

Flag question
Why is sorting important for selection operations?
a. It makes the data unsorted
<ul> <li>b. It makes it easier to select items based on their relationship to the rest of the items</li> </ul>
<ul> <li>c. It complicates the selection of items</li> </ul>
<ul> <li>d. It slows down the process</li> </ul>
Question 4
Complete
Marked out of 1.00
Which of the following best describes the process of Marris Cort?
Which of the following best describes the process of Merge Sort?
<ul> <li>a. It divides the list into two halves, sorts each half, and then merges them</li> </ul>
b. It builds a sorted array one element at a time
<ul> <li>c. It repeatedly finds the minimum element and moves it to the sorted part of the list</li> </ul>
d. It compares adjacent elements and swaps them if necessary
Question <b>5</b>
Complete  Marked out of 1.00
₩ Flag question
Y Trag question
Which built-in Python function is used to sort data?
oa. order()
b. arrange()
oc. sort()
<pre>     d. sorted()</pre>
Question 6
Complete

explain how an algorithm will perform when the input grows larger.  a. Merging b. Complexity c. Sorting d. Searching  Question 7  Complete Marked out of 1.00 Filag question  In the context of sorting, what does the divide-and-conquer approach involve?  a. Sorting data sequentially b. Sorting data in a single pass c. Dividing the input into parts, solving each part, and combining the solutions d. Rearranging data without sorting  Question 8  Complete Marked out of 1.00 Filag question  Which algorithm is efficient for analyzing the frequency distribution of items in a list?  a. Quick Sort b. Bubble Sort c. Merge Sort d. Linear Search	Marked out of 1.00			
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<ul><li>b. Bubble Sort</li><li>c. Merge Sort</li></ul>				
○ c. Merge Sort	a. Quick Sort			
	b. Bubble Sort			
○ d. Linear Search	o. Merge Sort			
	od. Linear Search			

Question <b>9</b>
Complete
Marked out of 1.00
▼ Flag question
Which sorting algorithm involves comparing elements and swapping adjacent items that are out of order?
a. Bubble Sort
○ b. Merge Sort
○ c. Binary Search
○ d. Linear Search
Question 10
Complete
Marked out of 1.00
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
© a. Corting helps in imaning duplicated quiettiy
Question 11
Complete
Marked out of 1.00
▼ Flag question
Two-way merge sort algorithm is used to sort the following elements in ascending order. 200,470,150,80,90,40,400,300,120,70
What is the order of these elements after second pass of the merge sort algorithm?
○ a. 40,80,90,150,200,300,400,470,70,120

b. 200,470,80,150,40,90,300,400,70,120				
c. 40,70,80,90,120,150,200,300,400,470				
<ul><li>d. 80,150,200,470,40,90,300,400,70,120</li></ul>				
Question 12				
Complete				
Marked out of 1.00				
In Merge Sort, what happens after the two halves of the list are sorted?				
a. They are compared element by element				
b. They are discarded				
c. They are combined to form a single sorted list				
<ul> <li>d. They are split again into smaller sublists</li> </ul>				
Question 13				
Complete				
Marked out of 1.00				
Very slow way of sorting is				
<ul><li>a. Bubble sort</li></ul>				
<ul><li>b. Insertion sort</li></ul>				
○ c. Heap sort				
od. Quick sort				
Question 14				
Complete  Marked out of 1.00				
Warked out of 1.00				
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Which Python function would you use to sort a list in-place?				
a. sorted()				
<ul><li>b. order()</li></ul>				
<pre>© c. sort()</pre>				
od. arrange()				
Question 15				
Complete				
Marked out of 1.00				
⟨ Flag question				
Algorithm design technique used in merge sort algorithm is				
/ ugonum design teemingde doed in merge sort digonum is				
a. Dynamic programming				
<ul><li>b. Divide and conquer</li></ul>				
oc. Backtracking				
od. Greedy method				
	Finish review			