Rajalakshmi Engineering College

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Batch: 2028

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NeoColab_REC_CS23231_DATA STRUCTURES

REC_DS using C_Week 6_MCQ_Updated_1

Attempt : 1 Total Mark : 20 Marks Obtained : 0

Section 1: MCQ

1. Which of the following modifications can help Quicksort perform better on small subarrays?

Answer

Status: Skipped Marks: 0/1

2. Which of the following statements is true about the merge sort algorithm?

Answer

_

Status: - Marks: 0/1

	3. Which of the foll	owing is true about Quic	ksort?	,065		
24	Answer -	24150	24150	24/50		
	Status: -			Marks : 0/1		
	4. What is the best that are more than 1	sorting algorithm to use million in general?	e for the elements in	an array		
	Answer					
	-1065	1065	1065	1065		
24	Status : -	24,150	241501065	Marks : 0/1		
	5. In a quick sort algorithm, what role does the pivot element play?					
	Answer					
	Status: -			Marks : 0/1		
		owing methods is used	for sorting in merge			
2.4.		150100	1150106	sort?		
24	6. Which of the foll	owing methods is used	for sorting in merge			
24	6. Which of the foll Answer - Status: -	150100	24150100	sort?		
24	6. Which of the foll Answer - Status: -	24750700	24150100	sort?		
24	 6. Which of the foll Answer Status: - 7. Which of the foll Answer - 	owing is not true about 0	QuickSort?	sort? Marks: 0/1		
24	 6. Which of the foll Answer Status: - 7. Which of the foll Answer - 	owing is not true about (24150100	sort?		

Λ^	8. Which of the following sorting algorithms is beconquer method?	pased on the divide and					
7,4	Answer	7x					
	Status: -	Marks : 0/1					
	9. The following code snippet is an example of 'low' and 'high' parameters represent in this code	•					
	<pre>void quickSort(int arr[], int low, int high) { if (low < high) {</pre>	501065					
24.	<pre>int pivot = partition(arr, low, high); quickSort(arr, low, pivot - 1); quickSort(arr, pivot + 1, high);</pre>	71,150					
	}						
	Answer						
	- Ctatus :	Marka: 0/1					
	Status: -	Marks : 0/1					
200	10. In a quick sort algorithm, where are smaller pivot during the partition process, assuming we order?						
	Answer						
	-						
	Status: -	Marks : 0/1					
	11. What happens when Merge Sort is applied to a single-element array?						
200	Answer 241501065	501065					
2"	7°	V					

Status: - 12. What is the main advantage of Quicksort over Merge Sort?	Marks: 0/1				
Answer					
- Status : -	Marks : 0/1				
13. Which of the following scenarios is Merge Sort preferred over Quick					
Answer 241501065	24,150,1065				
Status: -	Marks : 0/1				
14. Merge sort is					
Answer					
Status: - 15. Let P be a quick sort program to sort numbers in ascending using the first element as a pivot. Let t1 and t2 be the number of comparisons made by P for the inputs {1, 2, 3, 4, 5} and {4, 1, 5, 3 respectively. Which one of the following holds?					
Answer					
-					
Status: -	Marks : 0/1				

16. Which of the following strategies is used to improve the efficiency of Quicksort in practical implementations?

241	Answer Status: -	247507065	241501065	Marks : 0/1
	order using the firs	st element as a pivoquire the maximum r	n, which sorts elements t. Then which of the follo number of comparisons	owing input
24	Answer - Status : -	24,150,1065	247507065	Marks : 0/1
	18. What happen	s during the merge s	step in Merge Sort?	
	Answer			
	Status: -			Marks : 0/1
	10.00.14		6	
24	Answer	t a stable sorting alg	jorithm?	24,50,100
241	5010	t a stable sorting alg	Jorithm?	7 ^{A150106} Marks : 0/1
24	Answer - Status: -	24,150,10	orting large datasets co	
24	Answer - Status: - 20. Why is Merge	24,150,10	2415010	