

Grand Quiz Spring 2021

Subject Code CS502 lecture 1 to 22

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RIZ MUGHAL (SQA ENGINEER)

Question # 1 of 30 (Start time: 09:17:38 AM, 27 June 2021) In Heap Sort algorithm, the total running time for Heapify procedure is ______. Select the correct option Big-oh(log n) O (1) i.e. Constant time

Theta (log n)

Omega (log n)

0

CS502:Grand Quiz Question # 2 of 30 (Start time: 09:18:08 AM, 27 June 2021) Quick sort Algorithm is required a lot of comparisons in the _____ condition. Select the correct option Worse case Best and Average case Average case Best case

CS502:0	Grand Quiz	Quiz Start Ti	
Question # 3 of 30 (Start time: 09:18:30 AM, 27 June 2021)			
In Hea	In Heap Sort algorithm (using max heap), when every time maximum element is removed from top		
Select th	ne correct option		
	Divide and Conquer strategy helps us		
0			
	We are left with a hole		
•			
	We call merge Sort algorithm		
0			
	It becomes Order n2 Algorithm		
	II		

CS502:Grand Quiz Question # 4 of 30 (Start time: 09:19:12 AM, 27 June 2021) In average-case time analysis of quick sort algorithm, the most balanced case for partition is when we divide the list of elements into _____. Select the correct option Three nearly equal pieces 0 Single piece exactly Two nearly equal pieces Equal no. of pieces as of input elements

Quiz Start Time: 09 CS502:Grand Quiz Question # 5 of 30 (Start time: 09:20:28 AM, 27 June 2021) Consider three matrices X, Y, Z of dimensions 1 x 2, 2 x 3, 3 x 4 respectively. The number of multiplications of (XY)Z is: Select the correct option 32 0 30 24 0

CS502:Grand Quiz Question # 6 of 30 (Start time: 09:21:09 AM, 27 June 2021) Quicksort is a/an _____ and ____ sorting algorithm. Select the correct option In-place, not stable one Not in-place, stable one In-place, stable one Not in-place, not stable one

CS502:Grand Quiz Question # 7 of 30 (Start time: 09:21:47 AM, 27 June 2021) items are not allowed in the 0/1 knapsack. Select the correct option Lighter 0 Whole 0 Weighty 0 Fractional

CS502:	Grand Quiz	Quiz S	
Question # 8 of 30 (Start time: 09:22:12 AM, 27 June 2021)			
The m	ain purpose of mathematical analysis is measuring therequired by the algorithm.		
Select th	ne correct option		
0	Space		
•	Execution time and memory		
0	Inputs & outputs		
0	Execution time		

CS502:Grand Quiz Question # 9 of 30 (Start time: 09:22:27 AM, 27 June 2021) Execution time of an algorithm can be measured by ______. Select the correct option Divide and conquer approach both brute force and divide and conqure approach Mathematical analysis Brute force approach

CS502:Grand Quiz Question # 10 of 30 (Start time: 09:22:42 AM, 27 June 2021) Quick sort is based on _____ strategy. Select the correct option Graph Theory 0 Divide-and-Conquer Dynamic programming Greedy approach

US502:	Grand Quiz	Quiz Start
Questio	n # 11 of 30 (Start time: 09	:23:00 AM, 27 June 2021)
A sorti	ing algorithm is called as	if duplicate elements remain in the same relative position after sorting.
Select t	he correct option	
0	O(n) algorithm	
•	Stable	
0	Parallel	
0	Complex	

CS502:Grand Quiz Question # 12 of 30 (Start time: 09:23:15 AM, 27 June 2021) Which one sorting algorithm is best suited to sort an array of 2 million elements? Select the correct option Insert sort Quick sort Merge sort Bubble sort

CS502:Grand Quiz Quiz Start Question # 13 of 30 (Start time: 09:23:31 AM, 27 June 2021) We can use the _____ property to devise a recursive formulation of the edit distance problem. Select the correct option algorithmic small substructure optimal substructure real

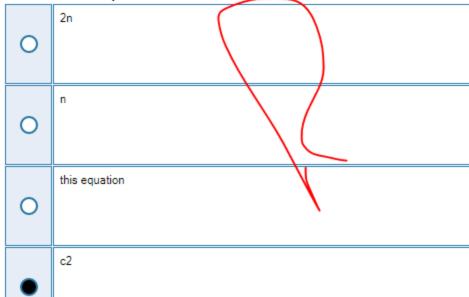
CS502:	Grand Quiz	Quiz
Questio	n # 14 of 30 (Start time: 09:23:56 AM, 27 June 2021)	
While	Sorting, the ordered domain means for any two input elements x and y satisfies only.	
Select tl	he correct option	
•	All of the above	
0	х>у	
0	x < y	
0	x = y	

CS502:Grand Quiz

Question # 15 of 30 (Start time: 09:24:15 AM, 27 June 2021)

8n2 + 2n - 3 will eventually exceed c2*(n) no matter how large we make ______.

Select the correct option



CS502:	:Grand Quiz	Quiz Start Time: 09:17 AM
Question	on # 16 of 30 (Start time: 09:24:30 AM, 27 June 2021)	
	is a method of solving a problem in which we check all possible solu	utions to the problem to find the solution we need.
Select ti	the correct option	
0	Sorting Algorithm	
0	Greedy approach	
0	Plane-Sweep Algorithm	
•	Brute-Force Algorithm	

CS502:Grand Quiz Question # 17 of 30 (Start time: 09:24:48 AM, 27 June 2021) In quick sort algorithm, pivots form _____. Select the correct option Graph Stack 0 Binary Search Tree Queue 0

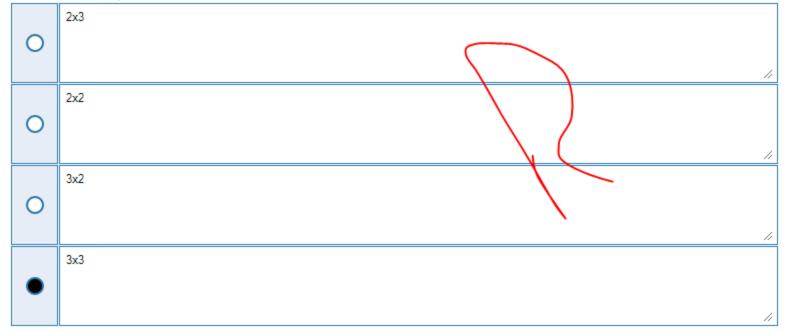
CS502:Grand Quiz Quiz Start Time: 09:17 A Question # 18 of 30 (Start time: 09:25:04 AM, 27 June 2021) In asymptotical analysis of n(n - 3) and 4n*n, as n becomes large, the dominant (fastest growing) term is some constant times_ Select the correct option n+1 0 n*n n-1

Question # 19 of 30 (Start time: 09:25:24 AM, 27 June 2021)

Total Marks: 1

If Matrix-A has dimensions "3x2" and Matrix-B has dimensions "2x3", then multiplication of Matrix-A and Matrix-B will result a new Matrix-C having dimensions

Select the correct option



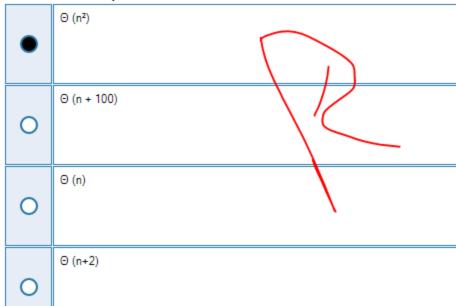
CS502:Grand Quiz Question # 20 of 30 (Start time: 09:25:40 AM, 27 June 2021) Boolean operation is a _____ operation on an idealized RAM model of computation. Select the correct option Advance 0 Normal 0 Basic Starting

CS502:Grand Quiz

Question # 21 of 30 (Start time: 09:26:44 AM, 27 June 2021)

There are _____ entries in the Edit Distance Matrix.

Select the correct option



CS502:Grand Quiz Question # 22 of 30 (Start time: 09:27:02 AM, 27 June 2021) Counting sort is suitable for sorting the elements within range 1 to P, where _____ Select the correct option P is undetermined 0 P is small P is very large P is large

CS502:Grand Quiz Start Ti

Question # 23 of 30 (Start time: 09:27:18 AM, 27 June 2021)

Suppose we have 4 matrices A, B, C, D. What is correct expansion of m[1,2] in chain matrix multiplication?

Select the correct option

0

m[1, 2] = m[1, 1] +m[2, 2] + p0 · p1 · p3

m[1, 2] = m[1, 1] +m[2, 2] + p0 · p1 · p2

 $m[1, 2] = m[1, 2] + m[2, 2] + p0 \cdot p1 \cdot p2$

m[1, 2] = m[1, 1] +m[1, 2] + p0 · p1 · p2

CS502:Grand Quiz Question # 24 of 30 (Start time: 09:27:34 AM, 27 June 2021) Which one is not passed as parameter in Quick sort algorithm? Select the correct option Array (containing input elements) Middle of the array Start of the array End of the array

CS502:Grand Quiz Quiz Start Time: 09:17 Question # 25 of 30 (Start time: 09:28:35 AM, 27 June 2021) In asymptotical analysis of n*(5 + 2) - 3, as n becomes large, the dominant (fastest growing) term is some constant times ____ Select the correct option n+1 n*n n_1

CS502:Grand Quiz Question # 26 of 30 (Start time: 09:28:51 AM, 27 June 2021) For _____ values of n, any algorithm is fast enough. Select the correct option Medium Small Infinity Large

CS502:	Grand Quiz	Quiz Start Time: 0
Questio	n # 27 of 30 (Start time: 09:29:19 AM, 27 June 2021)
Dynan	nic Programming algorithms often use some kind of	to store the results of intermediate sub-problems.
Select tl	he correct option	
0	stack	
0	Іоор	
•	table	
0	variable	

CS502:Grand Quiz Question # 28 of 30 (Start time: 09:29:34 AM, 27 June 2021) In Selection problem, the Sieve technique works in _____ Select the correct option One complete go Constant time 0 Non-recursive manner 0 Phases

Question # 29 of 30 (Start time: 09:29:55 AM, 27 June 2021) In Heap Sort algorithm, the maximum levels an element can move upward is ______. Select the correct option Theta (log n) O (1) i.e. Constant time

Omega (log n)

Big-oh(log n)

CS502:	:Grand Quiz	Quiz Start Time: 09
Questio	on # 30 of 30 (Start time: 09:30:11 AM, 27 June 2021)	
While	analysis of the brute-force maxima algorithm, an array sorted in the reverse order is the ty	pe of case input.
Select t	the correct option	
•	Worst	
0	Best	_
0	Somewhat bad	
0	Average	



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