



03063548328 Sonu Ilyas Mughal

Jan-03-2K21

CS502 - Fundamentals of Algorithms



Grand Quiz 2020 (Covid-19)

100% Correct Solve (Alhamdulillah)

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BY Virtual Assistance Sonu Ilyas Mughal



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CS502:Grand Quiz

Quiz Start Time: 12

Question # 12 of 30 ( Start time: 12:59:40 PM, 04 January 2021 )

Merge sort have running time \_\_\_\_\_ the running time of heap sort.

Select the correct option

- greater than
- less than
- equal to
- asymptotically equal

Click to Save Answer & M



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## CS502:Grand Quiz

Question # 13 of 30 ( Start time: 01:00:04 PM, 04 January 2021 )

\_\_\_\_\_ is a linear time sorting algorithm.

Select the correct option

- |                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | Merge sort  |
| <input checked="" type="radio"/> | Radix sort  |
| <input type="radio"/>            | Quick sort  |
| <input type="radio"/>            | Bubble sort |



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## CS502:Grand Quiz

Question # 14 of 30 ( Start time: 01:00:28 PM, 04 January 2021 )

The time assumed for each basic operation to execute on RAM model of computation is \_\_\_\_\_.

Select the correct option

<input type="radio"/>	Infinite
<input type="radio"/>	Continuous
<input checked="" type="radio"/>	Constant
<input type="radio"/>	Variable



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CS502:Grand Quiz

Q

Question # 15 of 30 ( Start time: 01:00:50 PM, 04 January 2021 )

In brute force algorithm, we measure running time  $T(n)$  based on \_\_\_\_\_.

Select the correct option

- |                                  |                                       |
|----------------------------------|---------------------------------------|
| <input type="radio"/>            | Average-case time and best-case time  |
| <input checked="" type="radio"/> | Worst-case time and average-case time |
| <input type="radio"/>            | Worst-case time and best-case time    |
| <input type="radio"/>            | Best-case time and starting-case time |



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## CS502:Grand Quiz

Question # 16 of 30 ( **Start time: 01:01:11 PM, 04 January 2021** )

While applying the Sieve technique to selection sort, how to choose a pivot element.

Select the correct option

- |                                  |              |
|----------------------------------|--------------|
| <input type="radio"/>            | Through mean |
| <input type="radio"/>            | Linear       |
| <input checked="" type="radio"/> | Randomly     |
| <input type="radio"/>            | Sequentially |



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CS502:Grand Quiz

Question # 17 of 30 ( Start time: 01:01:36 PM, 04 January 2021 )

What is the best case time complexity of merge sort?

Select the correct option

<input type="radio"/>	$O((n^2 \log n))$
<input type="radio"/>	$O((n \log n^2))$
<input checked="" type="radio"/>	$O((n \log n))$
<input type="radio"/>	$O((n^2))$



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## CS502:Grand Quiz

Question # 18 of 30 ( Start time: 01:01:59 PM, 04 January 2021 )

Identify a TRUE statement about Knapsack.

Select the correct option

- |                                  |  |
|----------------------------------|--|
| <input type="radio"/>            | The Knapsack problem does not belong to the domain of optimization problems. |
| <input checked="" type="radio"/> | The Knapsack problem belongs to the domain of optimization problems.         |
| <input type="radio"/>            | The Knapsack problem can not be solved by using dynamic programming.         |
| <input type="radio"/>            | The Knapsack problem is optimally solved by using brute force algorithm.     |



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## CS502:Grand Quiz

Question # 19 of 30 ( Start time: 01:02:42 PM, 04 January 2021 )

The average case running time of quick sort algorithm is theta \_\_\_\_\_.

Select the correct option

- |                                  |                      |
|----------------------------------|----------------------|
| <input type="radio"/>            | $\log(n)$            |
| <input type="radio"/>            | $(n)$                |
| <input checked="" type="radio"/> | $n\log(n)$           |
| <input type="radio"/>            | $n \times n \log(n)$ |



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CS502:Grand Quiz

Quiz Sta

Question # 20 of 30 ( Start time: 01:03:07 PM, 04 January 2021 )

One of the limitation in 0/1 knapsack is that an item can either be \_\_\_\_\_ in the bag or not.

Select the correct option

- |                                  |       |
|----------------------------------|-------|
| <input type="radio"/>            | Use   |
| <input checked="" type="radio"/> | Put   |
| <input type="radio"/>            | Move  |
| <input type="radio"/>            | Store |

Click to Save An



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### CS502:Grand Quiz

Question # 21 of 30 ( **Start time: 01:03:32 PM, 04 January 2021** )

For \_\_\_\_\_ values of  $n$ , any algorithm is fast enough.

Select the correct option

<input checked="" type="radio"/>	Small
<input type="radio"/>	Medium
<input type="radio"/>	Large
<input type="radio"/>	Infinity



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CS502:Grand Quiz

Quiz Sta

Question # 22 of 30 ( Start time: 01:03:56 PM, 04 January 2021 )

If there are  $\Theta(n^2)$  entries in edit distance matrix then each entry  $E(i, j)$  takes \_\_\_\_\_ time to compute.

Select the correct option

- |                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | $\Theta(n)$        |
| <input type="radio"/>            | $\Theta(n^2)$      |
| <input checked="" type="radio"/> | $\Theta(1)$        |
| <input type="radio"/>            | $\Theta(n \log n)$ |

Click to Save An



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## CS502:Grand Quiz

Question # 23 of 30 ( Start time: 01:04:18 PM, 04 January 2021 )

Sieve technique is a special case of \_\_\_\_\_ strategy.

Select the correct option

- |                                  |                     |
|----------------------------------|---------------------|
| <input type="radio"/>            | Dynamic programming |
| <input checked="" type="radio"/> | Divide-and-Conquer  |
| <input type="radio"/>            | Greedy approach     |
| <input type="radio"/>            | Graph               |



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## CS502:Grand Quiz

Question # 24 of 30 ( Start time: 01:04:40 PM, 04 January 2021 )

In the analysis of algorithms, \_\_\_\_\_ plays an important role.

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | text analysis |
| <input type="radio"/>            | time          |
| <input checked="" type="radio"/> | growth rate   |
| <input type="radio"/>            | money         |



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CS502:Grand Quiz

Quiz S

Question # 25 of 30 ( Start time: 01:05:02 PM, 04 January 2021 )

Heap sort is a/an \_\_\_\_\_ and \_\_\_\_\_ sorting algorithm.

Select the correct option

- |                                  |                              |
|----------------------------------|------------------------------|
| <input type="radio"/>            | Not in-place, not stable one |
| <input type="radio"/>            | In-place, stable one         |
| <input checked="" type="radio"/> | In-place, not stable one     |
| <input type="radio"/>            | Not in-place, stable one     |

Click to Save A



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Question # 26 of 30 ( Start time: 01:05:23 PM, 04 January 2021 )

\_\_\_\_\_ programming is essentially recursion without repetition.

Select the correct option

- |                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | Fast       |
| <input checked="" type="radio"/> | Dynamic    |
| <input type="radio"/>            | Array      |
| <input type="radio"/>            | $N \log n$ |

Click to S



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## CS502:Grand Quiz

Question # 27 of 30 ( Start time: 01:05:44 PM, 04 January 2021 )

Edit distance algorithm based on \_\_\_\_\_ strategy.

Select the correct option

<input type="radio"/>	Greedy
<input checked="" type="radio"/>	Dynamic Programming
<input type="radio"/>	Divide and Conquer
<input type="radio"/>	Brute force



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CS502:Grand Quiz

Quiz S

Question # 28 of 30 ( Start time: 01:06:03 PM, 04 January 2021 )

In Fibonacci Sequence, each term is calculated by \_\_\_\_\_ previous \_\_\_\_\_ terms.

Select the correct option

- |                                  |                  |
|----------------------------------|------------------|
| <input type="radio"/>            | Subtracting, Two |
| <input type="radio"/>            | Adding, Three    |
| <input checked="" type="radio"/> | Adding, Two      |
| <input type="radio"/>            | Multiplying, Two |

Click to Save A



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CS502:Grand Quiz

Quiz Start Time

Question # 29 of 30 ( Start time: 01:06:24 PM, 04 January 2021 )

What is the average running time of a quick sort algorithm?

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | $O(n^2)$      |
| <input type="radio"/>            | $O(n)$        |
| <input checked="" type="radio"/> | $O(n \log n)$ |
| <input type="radio"/>            | $O(\log n)$   |

Click to Save Answer &



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Q

Question # 30 of 30 ( Start time: 01:06:44 PM, 04 January 2021 )

Matrix multiplication is a(n) \_\_\_\_\_ operation.

Select the correct option

- |                                  |                                     |
|----------------------------------|-------------------------------------|
| <input type="radio"/>            | Commutative                         |
| <input checked="" type="radio"/> | Associative                         |
| <input type="radio"/>            | Neither commutative nor associative |
| <input type="radio"/>            | Transitive                          |



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## CS502:Grand Quiz

Question # 1 of 30 ( **Start time: 01:11:39 PM, 04 January 2021** )

The worst-case running time of Quick sort is ----- in order to sort an array of n element.

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | $O(n \log n)$ |
| <input type="radio"/>            | $O(n)$        |
| <input checked="" type="radio"/> | $O(n^2)$      |
| <input type="radio"/>            | $O(\log n)$   |



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CS502:Grand Quiz

Quiz Start T

Question # 3 of 30 ( Start time: 01:12:27 PM, 04 January 2021 )

In Sieve technique, we solve the problem \_\_\_\_\_

Select the correct option

- |                                     |                             |
|-------------------------------------|-----------------------------|
| <input checked="" type="checkbox"/> | In recursive manner         |
| <input type="checkbox"/>            | Non recursively             |
| <input type="checkbox"/>            | Using Merge Sort algorithm  |
| <input type="checkbox"/>            | Using Brute force technique |

Click to Save Answ



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Qu

Question # 2 of 30 ( Start time: 01:12:04 PM, 04 January 2021 )

Memoization is a part of \_\_\_\_\_ programming strategy.

Select the correct option

- |                                  |         |
|----------------------------------|---------|
| <input type="radio"/>            | slow    |
| <input type="radio"/>            | fast    |
| <input checked="" type="radio"/> | dynamic |
| <input type="radio"/>            | memory  |

Click to Save



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Quiz Start Time

Question # 5 of 30 ( Start time: 01:13:11 PM, 04 January 2021 )

\_\_\_\_\_ is not useful measure of central tendency of given input set especially when the distribution of values is highly skewed.

Select the correct option

- |                                  |         |
|----------------------------------|---------|
| <input type="radio"/>            | Mean    |
| <input type="radio"/>            | Mode    |
| <input type="radio"/>            | Average |
| <input checked="" type="radio"/> | Median  |

Click to Save Answer



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## CS502:Grand Quiz

Question # 4 of 30 ( Start time: 01:12:50 PM, 04 January 2021 )

Brute-force algorithm for 2D-Maxima is operated by comparing \_\_\_\_\_ pairs of points.

Select the correct option

<input type="radio"/>	Two
<input type="radio"/>	Some
<input type="radio"/>	Most
<input checked="" type="radio"/>	All



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## CS502:Grand Quiz

Question # 7 of 30 ( Start time: 01:14:00 PM, 04 January 2021 )

The average case running time of quick sort algorithm is theta \_\_\_\_\_.

Select the correct option

- |                                  |                      |
|----------------------------------|----------------------|
| <input type="radio"/>            | $\text{Log}(n)$      |
| <input type="radio"/>            | $(n)$                |
| <input checked="" type="radio"/> | $n\log(n)$           |
| <input type="radio"/>            | $n \times n \log(n)$ |



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Quiz Start T

Question # 6 of 30 ( Start time: 01:13:39 PM, 04 January 2021 )

\_\_\_\_\_ is in-place sorting algorithm.

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input checked="" type="radio"/> | Bubble sort   |
| <input type="radio"/>            | Merge sort    |
| <input type="radio"/>            | Linear search |
| <input type="radio"/>            | Binary search |

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## CS502:Grand Quiz

Question # 9 of 30 ( Start time: 01:14:47 PM, 04 January 2021 )

Merge sort is a/an \_\_\_\_\_ and \_\_\_\_\_ sorting algorithm.

Select the correct option

- |                                  |                              |
|----------------------------------|------------------------------|
| <input type="radio"/>            | Not in-place, not stable one |
| <input type="radio"/>            | In-place, not stable one     |
| <input type="radio"/>            | In-place, stable one         |
| <input checked="" type="radio"/> | Not in-place, stable one     |



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Question # 8 of 30 ( Start time: 01:14:22 PM, 04 January 2021 )

In Dynamic Programming approach, solution is modified/changed \_\_\_\_\_.

Select the correct option

- |                                  |                            |
|----------------------------------|----------------------------|
| <input type="radio"/>            | Always once                |
| <input checked="" type="radio"/> | At each stage              |
| <input type="radio"/>            | Only for specific problems |
| <input type="radio"/>            | At 4th stage only          |

Click to Save



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## CS502:Grand Quiz

Question # 11 of 30 ( **Start time: 01:15:35 PM, 04 January 2021** )

Quick sort algorithm was developed by \_\_\_\_\_.

Select the correct option

- |                                  |                        |
|----------------------------------|------------------------|
| <input type="radio"/>            | Alfred Aho             |
| <input type="radio"/>            | Sedgewick              |
| <input type="radio"/>            | John Vincent Atanasoff |
| <input checked="" type="radio"/> | Tony Hoare             |



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CS502:Grand Quiz

Question # 10 of 30 ( Start time: 01:15:12 PM, 04 January 2021 )

Using \_\_\_\_\_ algorithm, efficiency is not given much importance.

Select the correct option

- |                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | Greedy      |
| <input type="radio"/>            | Merge sort  |
| <input type="radio"/>            | Processing  |
| <input checked="" type="radio"/> | Brute Force |



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CS502:Grand Quiz

G

Question # 13 of 30 ( Start time: 01:16:21 PM, 04 January 2021 )

Which one of the following sorting algorithms is the fastest?

Select the correct option

- |                                  |                |
|----------------------------------|----------------|
| <input type="radio"/>            | Merge sort     |
| <input checked="" type="radio"/> | Quick sort     |
| <input type="radio"/>            | Insertion sort |
| <input type="radio"/>            | Heap sort      |



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## CS502:Grand Quiz

Question # 12 of 30 ( Start time: 01:16:00 PM, 04 January 2021 )

After partitioning array in Quick sort, pivot is placed in a position such that

Select the correct option

- |                                  |  |
|----------------------------------|--|
| <input type="radio"/>            | Pivot is the first element of array                                      |
| <input type="radio"/>            | Pivot is the last element of array                                       |
| <input checked="" type="radio"/> | Values smaller than pivot are on left and larger than pivot are on right |
| <input type="radio"/>            | Values larger than pivot are on left and smaller than pivot are on right |



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CS502:Grand Quiz

Quiz

Question # 15 of 30 ( Start time: 01:17:02 PM, 04 January 2021 )

Applying the sieve technique to selection problem, \_\_\_\_\_ element is picked from array.

Select the correct option

- |                                  |        |
|----------------------------------|--------|
| <input type="radio"/>            | Output |
| <input type="radio"/>            | Total  |
| <input type="radio"/>            | Input  |
| <input checked="" type="radio"/> | Pivot  |

Click to Save



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Qu

Question # 14 of 30 ( Start time: 01:16:41 PM, 04 January 2021 )

The Omega-notation allows us to state only the asymptotic \_\_\_\_\_ bounds.

Select the correct option

- |                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | Middle             |
| <input checked="" type="radio"/> | Lower              |
| <input type="radio"/>            | Upper              |
| <input type="radio"/>            | Both lower & upper |

Click to Save



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CS502:Grand Quiz

Question # 17 of 30 ( Start time: 01:18:07 PM, 04 January 2021 )

While Sorting, the ordered domain means for any two input elements x and y \_\_\_\_\_ satisfies only.

Select the correct option

- |                                  |                  |
|----------------------------------|------------------|
| <input type="radio"/>            | $x < y$          |
| <input type="radio"/>            | $x > y$          |
| <input type="radio"/>            | $x = y$          |
| <input checked="" type="radio"/> | All of the above |



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CS502:Grand Quiz

Quiz Start Time: 0

Question # 16 of 30 ( Start time: 01:17:23 PM, 04 January 2021 )

Find the maximum value of the items which can carry using knapsack. Knapsack weight capacity = 50.

Item	Weight	Value
1	10	70
2	20	20
3	30	80
4	70	200

Select the correct option

<input type="radio"/>	280
<input checked="" type="radio"/>	100
<input type="radio"/>	90
<input type="radio"/>	200

Click to Save Answer & M



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## CS502:Grand Quiz

Question # 19 of 30 ( Start time: 01:18:53 PM, 04 January 2021 )

In Heapsort Algorithm, total time taken by heapify procedure is:

Select the correct option

- |                                  |                 |
|----------------------------------|-----------------|
| <input checked="" type="radio"/> | $O(\log n)$     |
| <input type="radio"/>            | $O(\log^2 n)$   |
| <input type="radio"/>            | $O(n \log n)$   |
| <input type="radio"/>            | $O(n^2 \log n)$ |



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CS502:Grand Quiz

Quiz S

Question # 18 of 30 ( Start time: 01:18:30 PM, 04 January 2021 )

Which of the following is calculated with Big O notation?

Select the correct option

- |                                  |                             |
|----------------------------------|-----------------------------|
| <input type="radio"/>            | Medium bounds               |
| <input checked="" type="radio"/> | Upper bounds                |
| <input type="radio"/>            | Lower bounds                |
| <input type="radio"/>            | Both upper and lower bounds |

Click to Save A



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## CS502:Grand Quiz

Question # 21 of 30 ( Start time: 01:19:50 PM, 04 January 2021 )

Rank of an element can be defined as \_\_\_\_\_

Select the correct option

- |                                  |   |
|----------------------------------|---|
| <input type="radio"/>            | One minus the number of elements that are smaller |
| <input type="radio"/>            | Two plus the number of elements that are greater  |
| <input checked="" type="radio"/> | One plus the number of elements that are smaller  |
| <input type="radio"/>            | Two minus the number of elements that are smaller |



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CS502:Grand Quiz

Quiz Start

Question # 20 of 30 ( Start time: 01:19:27 PM, 04 January 2021 )

When matrix A of  $5 \times 3$  is multiplied with matrix B of  $3 \times 4$  then the number of multiplications required will be \_\_\_\_\_.

Select the correct option

- |                                  |    |
|----------------------------------|----|
| <input type="radio"/>            | 15 |
| <input type="radio"/>            | 12 |
| <input type="radio"/>            | 36 |
| <input checked="" type="radio"/> | 60 |

Click to Save Answer



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Quiz S

Question # 23 of 30 ( Start time: 01:20:35 PM, 04 January 2021 )

While applying the Sieve technique to selection sort, how to choose a pivot element.

Select the correct option

- |                                  |              |
|----------------------------------|--------------|
| <input type="radio"/>            | Through mean |
| <input type="radio"/>            | Linear       |
| <input checked="" type="radio"/> | Randomly     |
| <input type="radio"/>            | Sequentially |

Click to Save A



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Quiz St

Question # 22 of 30 ( Start time: 01:20:11 PM, 04 January 2021 )

\_\_\_\_\_ provides us more accurate result, when input values are not closer with each other.

Select the correct option

- |                                  |         |
|----------------------------------|---------|
| <input type="radio"/>            | Average |
| <input checked="" type="radio"/> | Median  |
| <input type="radio"/>            | Mode    |
| <input type="radio"/>            | Mean    |

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## CS502:Grand Quiz

Question # 25 of 30 ( Start time: 01:21:21 PM, 04 January 2021 )

In recursive formulation of Knapsack Problem:  
 $V[0, j] = \underline{\hspace{2cm}}$  for  $j \geq 0$

Select the correct option

- |                                  |    |
|----------------------------------|----|
| <input type="radio"/>            | -1 |
| <input checked="" type="radio"/> | 0  |
| <input type="radio"/>            | 1  |
| <input type="radio"/>            | 2  |



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CS502:Grand Quiz

Quiz

Question # 24 of 30 ( Start time: 01:20:58 PM, 04 January 2021 )

In Heap Sort algorithm, if heap property is violated:

Select the correct option

- |                                  |                                     |
|----------------------------------|-------------------------------------|
| <input type="radio"/>            | We call Build heap procedure        |
| <input checked="" type="radio"/> | We call Heapify procedure           |
| <input type="radio"/>            | We ignore                           |
| <input type="radio"/>            | Heap property can never be violated |

Click to Save



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## CS502:Grand Quiz

Question # 27 of 30 ( Start time: 01:22:04 PM, 04 January 2021 )

In quick sort algorithm, \_\_\_\_\_ decides nature of Binary Search Tree formed by pivots.

Select the correct option

- |                                  |                             |
|----------------------------------|-----------------------------|
| <input type="radio"/>            | middle element from input   |
| <input type="radio"/>            | smallest element from input |
| <input checked="" type="radio"/> | rank of the pivot           |
| <input type="radio"/>            | largest element from input  |



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## CS502:Grand Quiz

Question # 26 of 30 ( Start time: 01:21:42 PM, 04 January 2021 )

Asymptotic notations are used to describe \_\_\_\_\_ of an algorithm.

Select the correct option

- |                                  |              |
|----------------------------------|--------------|
| <input type="radio"/>            | length       |
| <input checked="" type="radio"/> | running time |
| <input type="radio"/>            | size         |
| <input type="radio"/>            | compile time |



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Quiz Start Time

Question # 29 of 30 ( Start time: 01:22:43 PM, 04 January 2021 )

In 2d-maxima problem, a point is said to be \_\_\_\_\_ if it is not dominated by any other point in that space.

Select the correct option

- |                                  |         |
|----------------------------------|---------|
| <input type="radio"/>            | Member  |
| <input type="radio"/>            | Minimal |
| <input checked="" type="radio"/> | Maximal |
| <input type="radio"/>            | Joint   |

Click to Save Answer



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CS502:Grand Quiz

Quiz Start Tir

Question # 28 of 30 ( Start time: 01:22:24 PM, 04 January 2021 )

If the indices passed to merge sort algorithm are \_\_\_\_\_, then this means that there is only one element to sort.

Select the correct option

<input type="radio"/>	Small
<input type="radio"/>	Large
<input checked="" type="radio"/>	Equal
<input type="radio"/>	Not Equal

Click to Save Answer



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Quiz Start T

Question # 30 of 30 ( Start time: 01:23:03 PM, 04 January 2021 )

In the analysis of Selection algorithm, we get the convergent \_\_\_\_\_ series.

Select the correct option

- |                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | Harmonic   |
| <input type="radio"/>            | Linear     |
| <input type="radio"/>            | Arithmetic |
| <input checked="" type="radio"/> | Geometric  |

Click to Save Answ



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DC160200646: AMBREEN KHANUM

CS502:Grand Quiz

Question # 1 of 30 ( Start time: 01:28:00 PM, 04 January 2021 )

Time complexity of the "0-1" knapsack algorithm depends on \_\_\_\_\_

Select the correct option

- |                                  |  |
|----------------------------------|--|
| <input type="radio"/>            | Number of items                          |
| <input type="radio"/>            | Capacity of the knapsack                 |
| <input type="radio"/>            | Size of the table                        |
| <input checked="" type="radio"/> | Number of items and capacity of knapsack |



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CS502:Grand Quiz

Quiz Start

Question # 2 of 30 ( Start time: 01:28:45 PM, 04 January 2021 )

While analyzing algorithms, \_\_\_\_\_ and \_\_\_\_\_ are usually considered difficult to calculate.

Select the correct option

- |                                  |                  |
|----------------------------------|------------------|
| <input type="radio"/>            | Finite, Infinite |
| <input checked="" type="radio"/> | Floor, ceiling   |
| <input type="radio"/>            | Row, Column      |
| <input type="radio"/>            | Graph, Tree      |

Click to Save Answer



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Qui

Question # 3 of 30 ( Start time: 01:29:05 PM, 04 January 2021 )

The only way to convert an empty string into a string of  $j$  characters is by doing  $j$  insertions, represented as \_\_\_\_\_

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | $E(i, j) = 1$ |
| <input type="radio"/>            | $E(i, 0) = i$ |
| <input checked="" type="radio"/> | $E(0, j) = j$ |
| <input type="radio"/>            | $E(1, j) = j$ |



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CS502:Grand Quiz

Quiz Start

Question # 4 of 30 ( Start time: 01:29:28 PM, 04 January 2021 )

Sorting Algorithms having  $O$  \_\_\_\_\_ running time are considered to be slow ones.

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | $(n)$         |
| <input checked="" type="radio"/> | $(n^2)$       |
| <input type="radio"/>            | $(n \log(n))$ |
| <input type="radio"/>            | $(\log(n))$   |

Click to Save Answer



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CS502:Grand Quiz

Quiz

Question # 5 of 30 ( Start time: 01:29:49 PM, 04 January 2021 )

$8n^2+2n+3$  will exceed  $c28(n)$ , no matter how large we make \_\_\_\_\_.

Select the correct option

- n
- $2n$
- $c2$
- this quadratic equation

Click to Save



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CS502:Grand Quiz

Quiz Start Time

Question # 6 of 30 ( Start time: 01:30:09 PM, 04 January 2021 )

What is the best case time complexity of merge sort?

Select the correct option

- |                                  |                   |
|----------------------------------|-------------------|
| <input type="radio"/>            | $O((n^2 \log n))$ |
| <input type="radio"/>            | $O((n \log n^2))$ |
| <input checked="" type="radio"/> | $O((n \log n))$   |
| <input type="radio"/>            | $O((n^2))$        |

Repeated

Click to Save Answer



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## CS502:Grand Quiz

Question # 7 of 30 ( Start time: 01:30:42 PM, 04 January 2021 )

$8n^2 + 2n - 3$  will eventually exceed  $c2*(n)$  no matter how large we make \_\_\_\_\_.

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | n             |
| <input checked="" type="radio"/> | $c2$          |
| <input type="radio"/>            | $2n$          |
| <input type="radio"/>            | this equation |



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CS502:Grand Quiz

Quiz Start Time: 01:28 PM

Question # 8 of 30 ( Start time: 01:31:01 PM, 04 January 2021 )

If we associate  $(x, y)$  integers pair to cars where  $x$  is the speed of the car and  $y$  is the negation of the price. High  $y$  value for a car means a \_\_\_\_\_ car.

Select the correct option

<input type="radio"/>	Fast
<input type="radio"/>	Slow
<input type="radio"/>	Expensive
<input checked="" type="radio"/>	Cheap

Click to Save Answer & Move to



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## CS502:Grand Quiz

Question # 9 of 30 ( Start time: 01:31:23 PM, 04 January 2021 )

In Selection problem, the Sieve technique \_\_\_\_\_

Select the correct option

- |                                  |   |
|----------------------------------|---|
| <input type="radio"/>            | Adds some more input items each time      |
| <input type="radio"/>            | Do not work recursively                   |
| <input type="radio"/>            | Do not uses Divide and Conquer approach   |
| <input checked="" type="radio"/> | Eliminates undesired data items each time |



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## CS502:Grand Quiz

Question # 10 of 30 ( Start time: 01:31:46 PM, 04 January 2021 )

There are \_\_\_\_\_ entries in the Edit Distance Matrix.

Select the correct option

- |                                  |                   |
|----------------------------------|-------------------|
| <input type="radio"/>            | $\Theta(n)$       |
| <input checked="" type="radio"/> | $\Theta(n^2)$     |
| <input type="radio"/>            | $\Theta(n+2)$     |
| <input type="radio"/>            | $\Theta(n + 100)$ |



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## CS502:Grand Quiz

Question # 11 of 30 ( Start time: 01:32:05 PM, 04 January 2021 )

In brute force algorithm, we measure running time  $T(n)$  based on \_\_\_\_\_.

Select the correct option

- |                                  |                                       |
|----------------------------------|---------------------------------------|
| <input type="radio"/>            | Average-case time and best-case time  |
| <input checked="" type="radio"/> | Worst-case time and average-case time |
| <input type="radio"/>            | Worst-case time and best-case time    |
| <input type="radio"/>            | Best-case time and starting-case time |



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CS1020070: ANDREY KIRILOV

CS502:Grand Quiz

Quiz Start Time: 01:28

Question # 12 of 30 ( Start time: 01:32:30 PM, 04 January 2021 )

If matrix A of dimension  $2 \times 4$  is multiplied with matrix B of dimension  $4 \times 3$ , then the dimension of resultant matrix will be \_\_\_\_\_.

Select the correct option

- |                                  |              |
|----------------------------------|--------------|
| <input type="radio"/>            | $2 \times 4$ |
| <input type="radio"/>            | $4 \times 3$ |
| <input type="radio"/>            | $3 \times 4$ |
| <input checked="" type="radio"/> | $2 \times 3$ |

Click to Save Answer & Move



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CS502:Grand Quiz

Quiz Start Time: 01:28

Question # 13 of 30 ( Start time: 01:33:22 PM, 04 January 2021 )

In \_\_\_\_\_ involves breaking up the problem into sub problems whose solutions can be combined to solve the global problem.

Select the correct option

- |                                  |                              |
|----------------------------------|------------------------------|
| <input type="radio"/>            | Complexity Theory            |
| <input checked="" type="radio"/> | Dynamic programming solution |
| <input type="radio"/>            | Divide and Conquer Strategy  |
| <input type="radio"/>            | Greedy Algorithms            |

Click to Save Answer & Move



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CS502:Grand Quiz

Quiz Start Time: 01:28

Question # 14 of 30 ( Start time: 01:33:43 PM, 04 January 2021 )

If we have an equation  $8n^2 + 7f \cdot n + 5f + 6$  then  $n$  is large, \_\_\_\_\_ term will be much larger than the  $n$  term and will dominate the running time.

Select the correct option

- |                                  |           |
|----------------------------------|-----------|
| <input type="radio"/>            | $f(g(n))$ |
| <input type="radio"/>            | $g(n)^2$  |
| <input checked="" type="radio"/> | $n^2$     |
| <input type="radio"/>            | $f(n)$    |

Click to Save Answer & Move



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## CS502:Grand Quiz

Question # 15 of 30 ( Start time: 01:34:05 PM, 04 January 2021 )

In Fibonacci Sequence, each term is calculated by \_\_\_\_\_ previous \_\_\_\_\_ terms.

Select the correct option

- |                                  |                  |
|----------------------------------|------------------|
| <input type="radio"/>            | Subtracting, Two |
| <input type="radio"/>            | Adding, Three    |
| <input checked="" type="radio"/> | Adding, Two      |
| <input type="radio"/>            | Multiplying, Two |



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CS502:Grand Quiz

Question # 16 of 30 ( Start time: 01:34:27 PM, 04 January 2021 )

Approach of solving geometric problems by sweeping a line across the plane is called \_\_\_\_\_ sweep.

Select the correct option

<input type="radio"/>	Line
<input checked="" type="radio"/>	Plane
<input type="radio"/>	Cube
<input type="radio"/>	Box



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## CS502:Grand Quiz

Question # 17 of 30 ( Start time: 01:34:52 PM, 04 January 2021 )

As per algorithm of dynamic programing, we need to store the result(s) of \_\_\_\_\_.

Select the correct option

- |                                  |                           |
|----------------------------------|---------------------------|
| <input type="radio"/>            | First sub-problem only    |
| <input type="radio"/>            | Best solution only        |
| <input checked="" type="radio"/> | Intermediate sub-problems |
| <input type="radio"/>            | Final solution only       |



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CS502:Grand Quiz

Quiz Start Time: 01

Question # 18 of 30 ( Start time: 01:35:18 PM, 04 January 2021 )

$f(n)$  and  $g(n)$  are asymptotically equivalent. This means that they have essentially the same \_\_\_\_\_ for large  $n$ .

Select the correct option

- |                                  |              |
|----------------------------------|--------------|
| <input type="radio"/>            | Results      |
| <input type="radio"/>            | Variables    |
| <input type="radio"/>            | Size         |
| <input checked="" type="radio"/> | Growth rates |

Click to Save Answer & M



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## CS502:Grand Quiz

Question # 19 of 30 ( Start time: 01:35:42 PM, 04 January 2021 )

Quicksort is a/an \_\_\_\_\_ and \_\_\_\_\_ sorting algorithm.

Select the correct option

- |                                  |                              |
|----------------------------------|------------------------------|
| <input type="radio"/>            | Not in-place, not stable one |
| <input checked="" type="radio"/> | In-place, not stable one     |
| <input type="radio"/>            | In-place, stable one         |
| <input type="radio"/>            | Not in-place, stable one     |



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CS502:Grand Quiz

Quiz

Question # 20 of 30 ( Start time: 01:36:03 PM, 04 January 2021 )

The main purpose of mathematical analysis is measuring the \_\_\_\_\_ required by the algorithm.

Select the correct option

- |                                  |                           |
|----------------------------------|---------------------------|
| <input type="radio"/>            | Space                     |
| <input type="radio"/>            | Execution time            |
| <input type="radio"/>            | Inputs & outputs          |
| <input checked="" type="radio"/> | Execution time and memory |

Click to Save



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CS502:Grand Quiz

Quiz 5

Question # 21 of 30 ( Start time: 01:36:25 PM, 04 January 2021 )

Selection sort takes theta \_\_\_\_\_ in the worst case.

Select the correct option

- |                                  |            |
|----------------------------------|------------|
| <input checked="" type="radio"/> | $(n^2)$    |
| <input type="radio"/>            | $(n)$      |
| <input type="radio"/>            | $\log(n)$  |
| <input type="radio"/>            | $n\log(n)$ |

Click to Save



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CS502:Grand Quiz

Q

Question # 22 of 30 ( Start time: 01:36:45 PM, 04 January 2021 )

Rank of an element can be defined as \_\_\_\_\_

Select the correct option

- |                                  |   |
|----------------------------------|---|
| <input type="radio"/>            | One minus the number of elements that are smaller |
| <input type="radio"/>            | Two plus the number of elements that are greater  |
| <input checked="" type="radio"/> | One plus the number of elements that are smaller  |
| <input type="radio"/>            | Two minus the number of elements that are smaller |



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CS502:Grand Quiz

Quiz Start Time

Question # 23 of 30 ( Start time: 01:37:07 PM, 04 January 2021 )

Developing a dynamic programming algorithm generally involves \_\_\_\_\_ separate steps.

Select the correct option

- |                                  |       |
|----------------------------------|-------|
| <input type="radio"/>            | One   |
| <input checked="" type="radio"/> | Two   |
| <input type="radio"/>            | Three |
| <input type="radio"/>            | Four  |

Click to Save Answer



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CS502:Grand Quiz

Quiz Start Time:

Question # 24 of 30 ( Start time: 01:37:28 PM, 04 January 2021 )

Find the maximum value of the items which can carry using knapsack. Knapsack weight capacity = 50.

Item	Weight	Value
1	10	70
2	20	20
3	30	80
4	70	200

Select the correct option

<input type="radio"/>	280
<input checked="" type="radio"/>	100
<input type="radio"/>	90
<input type="radio"/>	200

Click to Save Answer &



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## CS502:Grand Quiz

Question # 25 of 30 ( **Start time: 01:37:49 PM, 04 January 2021** )

In merge sort algorithm, we split the array \_\_\_\_\_ to find index q.

Select the correct option

- |                                  |                        |
|----------------------------------|------------------------|
| <input type="radio"/>            | from start             |
| <input checked="" type="radio"/> | midway                 |
| <input type="radio"/>            | from end               |
| <input type="radio"/>            | both from start or end |



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CS502:Grand Quiz

Quiz Start Time: 0

Question # 26 of 30 ( Start time: 01:38:08 PM, 04 January 2021 )

Dynamic Programming approach is usually useful in solving \_\_\_\_\_ problems.

Select the correct option

- |                                  |              |
|----------------------------------|--------------|
| <input type="radio"/>            | normal       |
| <input checked="" type="radio"/> | optimization |
| <input type="radio"/>            | array        |
| <input type="radio"/>            | loop         |

Click to Save Answer & M



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## CS502:Grand Quiz

Question # 27 of 30 ( **Start time: 01:38:28 PM, 04 January 2021** )

Using \_\_\_\_\_ algorithm, efficiency is not given much importance.

Select the correct option

- |                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | Greedy      |
| <input type="radio"/>            | Merge sort  |
| <input type="radio"/>            | Processing  |
| <input checked="" type="radio"/> | Brute Force |



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## CS502:Grand Quiz

Question # 28 of 30 ( Start time: 01:38:50 PM, 04 January 2021 )

\_\_\_\_\_ is a linear time sorting algorithm.

Select the correct option

- |                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | Merge sort  |
| <input checked="" type="radio"/> | Radix sort  |
| <input type="radio"/>            | Quick sort  |
| <input type="radio"/>            | Bubble sort |



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CS502:Grand Quiz

Quiz Start Time

Question # 29 of 30 ( Start time: 01:39:11 PM, 04 January 2021 )

In Heap Sort algorithm, Heapify procedure is \_\_\_\_\_ in nature.

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input checked="" type="radio"/> | Recursive     |
| <input type="radio"/>            | Non-Recursive |
| <input type="radio"/>            | Fast          |
| <input type="radio"/>            | slow          |

Click to Save Answer &



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CS502:Grand Quiz

Quiz Start Time: 01:28 PM, C

Question # 30 of 30 ( Start time: 01:39:34 PM, 04 January 2021 )

A Principal operation for maintaining the heap property is called heapify, it is also called:

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input checked="" type="radio"/> | Sifting Down  |
| <input type="radio"/>            | Sifting Up    |
| <input type="radio"/>            | Sifting Right |
| <input type="radio"/>            | Sifting Left  |

Click to Save Answer & Move to Ne



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## CS502:Grand Quiz

Question # 1 of 30 ( Start time: 02:23:11 PM, 04 January 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

- |                                  |  |
|----------------------------------|--|
| <input type="radio"/>            | Equal no. of pieces as of input elements |
| <input type="radio"/>            | Single piece exactly                     |
| <input checked="" type="radio"/> | Two nearly equal pieces                  |
| <input type="radio"/>            | Three nearly equal pieces                |



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CS502:Grand Quiz

Quiz Start T

Question # 2 of 30 ( Start time: 02:23:43 PM, 04 January 2021 )

Efficient algorithm requires less computational \_\_\_\_\_.

Select the correct option

- |                                  |                         |
|----------------------------------|-------------------------|
| <input type="radio"/>            | memory                  |
| <input type="radio"/>            | running time            |
| <input checked="" type="radio"/> | memory and running time |
| <input type="radio"/>            | notation                |

Click to Save Answer



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CS502:Grand Quiz

Question # 3 of 30 ( Start time: 02:24:05 PM, 04 January 2021 )

\_\_\_\_\_ algorithm based on Dynamic Programming strategy.

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | Heap Sort     |
| <input type="radio"/>            | Binary Tree   |
| <input type="radio"/>            | Quick Sort    |
| <input checked="" type="radio"/> | Edit distance |



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## CS502:Grand Quiz

Question # 4 of 30 ( Start time: 02:24:28 PM, 04 January 2021 )

In partition algorithm, the subarray \_\_\_\_\_ has elements which are greater than pivot element x.

Select the correct option

- |                                  |                 |
|----------------------------------|-----------------|
| <input type="radio"/>            | $A[p\dots r]$   |
| <input type="radio"/>            | $A[p\dots q-1]$ |
| <input type="radio"/>            | $A[q]$          |
| <input checked="" type="radio"/> | $A[q+1\dots r]$ |



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CS502:Grand Quiz

Quiz Start Time: 02:23 PM, 04

Question # 5 of 30 ( Start time: 02:24:52 PM, 04 January 2021 )

Dynamic programming formulation of the matrix chain multiplication problem will store the solutions of each sub problem in a(n):

Select the correct option

<input type="radio"/>	Array
<input checked="" type="radio"/>	Table
<input type="radio"/>	Variable
<input type="radio"/>	class

Click to Save Answer & Move to Next



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## CS502:Grand Quiz

Question # 6 of 30 ( **Start time: 02:25:23 PM, 04 January 2021** )

Which process is used for avoiding unnecessary repetitions and looking them up again if we need them later.

Select the correct option

- |                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | Greedy Approach    |
| <input checked="" type="radio"/> | Memoization        |
| <input type="radio"/>            | Divide and conquer |
| <input type="radio"/>            | Recursion          |



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CS502:Grand Quiz

Quiz

Question # 7 of 30 ( Start time: 02:25:42 PM, 04 January 2021 )

We can make \_\_\_\_\_ recursive calls in Fibonacci Sequence.

Select the correct option

- |                                  |          |
|----------------------------------|----------|
| <input checked="" type="radio"/> | Infinite |
| <input type="radio"/>            | Finite   |
| <input type="radio"/>            | Only one |
| <input type="radio"/>            | Zero     |

Click to Save



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CS502:Grand Quiz

Quiz Sta

Question # 8 of 30 ( Start time: 02:26:04 PM, 04 January 2021 )

If matrix A of dimension  $2 \times 4$  is multiplied with matrix B of dimension  $4 \times 3$ , then the dimension of resultant matrix will be \_\_\_\_\_.

Select the correct option

- |                                  |              |
|----------------------------------|--------------|
| <input type="radio"/>            | $2 \times 4$ |
| <input type="radio"/>            | $4 \times 3$ |
| <input type="radio"/>            | $3 \times 4$ |
| <input checked="" type="radio"/> | $2 \times 3$ |

Click to Save Ans



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CS502:Grand Quiz

Quiz

Question # 9 of 30 ( Start time: 02:26:28 PM, 04 January 2021 )

Dynamic Programming algorithms often use some kind of \_\_\_\_\_ to store the results of intermediate sub-problems.

Select the correct option

- |                                  |          |
|----------------------------------|----------|
| <input checked="" type="radio"/> | table    |
| <input type="radio"/>            | variable |
| <input type="radio"/>            | stack    |
| <input type="radio"/>            | loop     |

Click to Save



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## CS502:Grand Quiz

Question # 10 of 30 ( Start time: 02:26:53 PM, 04 January 2021 )

In \_\_\_\_\_ we have to find rank of an element from given input.

Select the correct option

<input type="radio"/>	Merge sort algorithm
<input checked="" type="radio"/>	Selection problem
<input type="radio"/>	Brute force technique
<input type="radio"/>	Plane Sweep algorithm



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## CS502:Grand Quiz

Question # 11 of 30 ( Start time: 02:27:13 PM, 04 January 2021 )

Insertion sort is a \_\_\_\_\_ sorting algorithm.

Select the correct option

- |                                  |              |
|----------------------------------|--------------|
| <input type="radio"/>            | Unstable     |
| <input checked="" type="radio"/> | In-place     |
| <input type="radio"/>            | Not In-Place |
| <input type="radio"/>            | in-partition |



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CS502:Grand Quiz

Quiz Si

Question # 12 of 30 ( Start time: 02:27:34 PM, 04 January 2021 )

In Selection algorithm, we assume pivot selection takes theta \_\_\_\_\_ running time.

Select the correct option

- |                                  |           |
|----------------------------------|-----------|
| <input checked="" type="radio"/> | $n$       |
| <input type="radio"/>            | $n^2$     |
| <input type="radio"/>            | $n^3$     |
| <input type="radio"/>            | $\log(n)$ |

Click to Save A



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CS502:Grand Quiz

Quiz S

Question # 13 of 30 ( Start time: 02:27:53 PM, 04 January 2021 )

In plane sweep approach, a vertical line is swept across the 2d-plane from \_\_\_\_\_.

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | Right to Left |
| <input checked="" type="radio"/> | Left to Right |
| <input type="radio"/>            | Top to Bottom |
| <input type="radio"/>            | Bottom to Top |

Click to Save A



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## CS502:Grand Quiz

Question # 14 of 30 ( Start time: 02:28:14 PM, 04 January 2021 )

While applying the Sieve technique to selection sort, how to choose a pivot element.

Select the correct option

<input type="radio"/>	Through mean
<input type="radio"/>	Linear
<input checked="" type="radio"/>	Randomly
<input type="radio"/>	Sequentially



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## CS502:Grand Quiz

Question # 15 of 30 ( Start time: 02:28:35 PM, 04 January 2021 )

Number of \_\_\_\_\_ of the pseudo code are counted to measure the running time.

Select the correct option

<input type="radio"/>	Inputs
<input type="radio"/>	Outputs
<input checked="" type="radio"/>	Steps
<input type="radio"/>	Pages



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CS502:Grand Quiz

Quiz Start

Question # 16 of 30 ( Start time: 02:28:58 PM, 04 January 2021 )

We do not need to prove comparison-based sorting algorithms by mathematically. It always takes \_\_\_\_\_ time.

Select the correct option

- |                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | Big Oh $n \log(n)$ |
| <input checked="" type="radio"/> | Omega $n \log(n)$  |
| <input type="radio"/>            | Omega $n(n^2)$     |
| <input type="radio"/>            | Theta $n \log(n)$  |

Click to Save Answer



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## CS502:Grand Quiz

Question # 17 of 30 ( Start time: 02:29:23 PM, 04 January 2021 )

What is the best case time complexity of merge sort?

Select the correct option

- |                                  |                   |
|----------------------------------|-------------------|
| <input type="radio"/>            | $O((n^2 \log n))$ |
| <input type="radio"/>            | $O((n \log n^2))$ |
| <input checked="" type="radio"/> | $O((n \log n))$   |
| <input type="radio"/>            | $O((n^2))$        |



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CS502:Grand Quiz

Quiz S

Question # 18 of 30 ( Start time: 02:29:46 PM, 04 January 2021 )

While analyzing Selection algorithm, we make a number of passes, in fact it could be as many as \_\_\_\_\_.

Select the correct option

- |                                  |           |
|----------------------------------|-----------|
| <input type="radio"/>            | $n(n+1)$  |
| <input checked="" type="radio"/> | $\log(n)$ |
| <input type="radio"/>            | $n/3$     |
| <input type="radio"/>            | $n/4$     |

Click to Save A



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## CS502:Grand Quiz

Question # 19 of 30 ( Start time: 02:30:16 PM, 04 January 2021 )

In Selection problem, the Sieve technique works in \_\_\_\_\_

Select the correct option

- |                                  |                      |
|----------------------------------|----------------------|
| <input type="radio"/>            | Non-recursive manner |
| <input type="radio"/>            | Constant time        |
| <input checked="" type="radio"/> | Phases               |
| <input type="radio"/>            | One complete go      |



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CS502:Grand Quiz

Quiz Sta

Question # 20 of 30 ( Start time: 02:30:37 PM, 04 January 2021 )

In Heap Sort algorithm, to remove the maximum element every time,\_\_\_\_\_.

Select the correct option

- |                                  |   |
|----------------------------------|---|
| <input type="radio"/>            | We call Build-Heap procedure                  |
| <input type="radio"/>            | Heap Sort algorithm terminates without result |
| <input checked="" type="radio"/> | We call heapify procedure                     |
| <input type="radio"/>            | Nothing happens                               |

Click to Save Ans



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CS502:Grand Quiz

Quiz Start Time: 02:2

Question # 21 of 30 ( Start time: 02:31:01 PM, 04 January 2021 )

In Dynamic Programming based solution of knapsack problem, to compute entries of 'V', we will imply a(n) \_\_\_\_\_ approach.

Select the correct option

- |                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | Subjective  |
| <input checked="" type="radio"/> | Inductive   |
| <input type="radio"/>            | Brute Force |
| <input type="radio"/>            | Combination |

Click to Go to Question 21 of 30



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CS502:Grand Quiz

Quiz

Question # 22 of 30 ( Start time: 02:31:22 PM, 04 January 2021 )

How many steps are involved to design the dynamic programming strategy?

Select the correct option

- 2
- 3
- 1
- 4

Click to Save



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CS502:Grand Quiz

Quiz Start Time: 02:23 PM

Question # 23 of 30 ( Start time: 02:31:42 PM, 04 January 2021 )

When a recursive algorithm revisits the same problem over and over again, we say that the optimization problem has \_\_\_\_\_ sub-problems.

Select the correct option

- |                                  |              |
|----------------------------------|--------------|
| <input checked="" type="radio"/> | Overlapping  |
| <input type="radio"/>            | Over costing |
| <input type="radio"/>            | Optimized    |
| <input type="radio"/>            | Three        |

Click to Save Answer & Move to



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## CS502:Grand Quiz

Question # 24 of 30 ( Start time: 02:32:08 PM, 04 January 2021 )

The time assumed for each basic operation to execute on RAM model of computation is \_\_\_\_\_.

Select the correct option

- |                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | Infinite   |
| <input type="radio"/>            | Continuous |
| <input checked="" type="radio"/> | Constant   |
| <input type="radio"/>            | Variable   |



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## CS502:Grand Quiz

Question # 25 of 30 ( Start time: 02:32:28 PM, 04 January 2021 )

If the time complexity of an algorithm is given by  $O(1)$ , then its time complexity would be:

Select the correct option

<input type="radio"/>	Polynomial
<input type="radio"/>	Exponential
<input checked="" type="radio"/>	Constant
<input type="radio"/>	Average



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## CS502:Grand Quiz

Question # 26 of 30 ( Start time: 02:32:47 PM, 04 January 2021 )

\_\_\_\_\_ is a linear time sorting algorithm.

Select the correct option

- |                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | Merge sort  |
| <input checked="" type="radio"/> | Radix sort  |
| <input type="radio"/>            | Quick sort  |
| <input type="radio"/>            | Bubble sort |



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CS502:Grand Quiz

Quiz Sta

Question # 27 of 30 ( Start time: 02:33:06 PM, 04 January 2021 )

If we have an equation  $8n^2+7f*n+ 5f+6$  then n is large, \_\_\_\_\_ term will be much larger than the n term and will dominate the running time.

Select the correct option

- |                                  |           |
|----------------------------------|-----------|
| <input type="radio"/>            | $f(g(n))$ |
| <input type="radio"/>            | $g(n)^2$  |
| <input checked="" type="radio"/> | $n^2$     |
| <input type="radio"/>            | $f(n)$    |

Click to Save Ans



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CS502:Grand Quiz

Quiz Start Time: 02:23 F

Question # 28 of 30 ( Start time: 02:33:27 PM, 04 January 2021 )

The main purpose of mathematical analysis is measuring the \_\_\_\_\_ required by the algorithm.

Select the correct option

- |                                  |                           |
|----------------------------------|---------------------------|
| <input type="radio"/>            | Space                     |
| <input type="radio"/>            | Execution time            |
| <input type="radio"/>            | Inputs & outputs          |
| <input checked="" type="radio"/> | Execution time and memory |

Click to Save Answer & Move t



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CS502:Grand Quiz

Quiz Star

Question # 29 of 30 ( Start time: 02:33:48 PM, 04 January 2021 )

Sorting Algorithms having  $O$  \_\_\_\_\_ running time are considered to be slow ones.

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | $(n)$         |
| <input checked="" type="radio"/> | $(n^2)$       |
| <input type="radio"/>            | $(n \log(n))$ |
| <input type="radio"/>            | $(\log(n))$   |

Click to Save Ans



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## CS502:Grand Quiz

Question # 30 of 30 ( Start time: 02:34:13 PM, 04 January 2021 )

In Heap Sort algorithm, Heapify procedure is \_\_\_\_\_ in nature.

Select the correct option

<input checked="" type="radio"/>	Recursive
<input type="radio"/>	Non-Recursive
<input type="radio"/>	Fast
<input type="radio"/>	slow



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## CS502:Grand Quiz

Question # 1 of 30 ( Start time: 06:07:41 PM, 04 January 2021 )

Merge sort is a/an \_\_\_\_\_ and \_\_\_\_\_ sorting algorithm.

Select the correct option

- |                                  |                              |
|----------------------------------|------------------------------|
| <input type="radio"/>            | Not in-place, not stable one |
| <input type="radio"/>            | In-place, not stable one     |
| <input type="radio"/>            | In-place, stable one         |
| <input checked="" type="radio"/> | Not in-place, stable one     |



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## CS502:Grand Quiz

Question # 2 of 30 ( Start time: 06:08:11 PM, 04 January 2021 )

Asymptotic growth of Plane-sweep algorithm for 2-D maxima problem is \_\_\_\_\_.

Select the correct option

- |                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | $\Theta(n)$        |
| <input type="radio"/>            | $\Theta(\log n)$   |
| <input checked="" type="radio"/> | $\Theta(n \log n)$ |
| <input type="radio"/>            | $\Theta(n^2)$      |



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CS502:Grand Quiz

Quiz Start Time

Question # 3 of 30 ( Start time: 06:08:38 PM, 04 January 2021 )

\_\_\_\_\_ provides us more accurate result, when input values are not closer with each other.

Select the correct option

- |                                  |         |
|----------------------------------|---------|
| <input type="radio"/>            | Average |
| <input checked="" type="radio"/> | Median  |
| <input type="radio"/>            | Mode    |
| <input type="radio"/>            | Mean    |



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CS502:Grand Quiz

Q

Question # 4 of 30 ( Start time: 06:09:03 PM, 04 January 2021 )

The process of \_\_\_\_\_ ends when you are left with such tiny pieces remaining that it is trivial to solve them.

Select the correct option

- |                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | Brute-force        |
| <input type="radio"/>            | Plan-sweep         |
| <input checked="" type="radio"/> | Divide and Conquer |
| <input type="radio"/>            | Axis-sweep         |



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CS502:Grand Quiz

Question # 5 of 30 ( Start time: 06:09:27 PM, 04 January 2021 )

In Heap Sort algorithm, if heap property is violated:

Select the correct option

- |                                  |                                     |
|----------------------------------|-------------------------------------|
| <input type="radio"/>            | We call Build heap procedure        |
| <input checked="" type="radio"/> | We call Heapify procedure           |
| <input type="radio"/>            | We ignore                           |
| <input type="radio"/>            | Heap property can never be violated |



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## CS502:Grand Quiz

Question # 6 of 30 ( Start time: 06:09:49 PM, 04 January 2021 )

In quick sort algorithm, pivots form \_\_\_\_\_.

Select the correct option

- |                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | Stack              |
| <input type="radio"/>            | Queue              |
| <input checked="" type="radio"/> | Binary Search Tree |
| <input type="radio"/>            | Graph              |



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CS502:Grand Quiz

Question # 7 of 30 ( Start time: 06:10:11 PM, 04 January 2021 )

Radix sort performs sorting the numbers \_\_\_\_\_ digit(s) at a time.

Select the correct option

<input checked="" type="radio"/>	One
<input type="radio"/>	Two
<input type="radio"/>	Three
<input type="radio"/>	All



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## CS502:Grand Quiz

### Question # 8 of 30 ( Start time: 06:10:31 PM, 04 January 2021 )

In the following code the statement "cout<<j;" executes ----- times.  
for (j = 1; j<=5 ;j = j+2)  
  cout<<j;

Select the correct option

<input type="radio"/>	5 times
<input type="radio"/>	2 times
<input checked="" type="radio"/>	3 times
<input type="radio"/>	0 times



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### CS502:Grand Quiz

Question # 9 of 30 ( Start time: 06:10:54 PM, 04 January 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

- |                                  |       |
|----------------------------------|-------|
| <input type="radio"/>            | $n+1$ |
| <input type="radio"/>            | $n-1$ |
| <input type="radio"/>            | $n$   |
| <input checked="" type="radio"/> | $n*n$ |

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## CS502:Grand Quiz

Question # 10 of 30 ( Start time: 06:11:18 PM, 04 January 2021 )

In chain matrix multiplication, table is filled \_\_\_\_\_ to find the multiplication of matrix.

Select the correct option

- |                                  |              |
|----------------------------------|--------------|
| <input type="radio"/>            | row wise     |
| <input type="radio"/>            | column wise  |
| <input checked="" type="radio"/> | diagonally   |
| <input type="radio"/>            | bottom-to-up |



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## CS502:Grand Quiz

Question # 11 of 30 ( Start time: 06:11:42 PM, 04 January 2021 )

In Heap Sort algorithm, the first step is to \_\_\_\_\_.

Select the correct option

- |                                  |                                    |
|----------------------------------|------------------------------------|
| <input checked="" type="radio"/> | Call Build-Heap procedure          |
| <input type="radio"/>            | Sort the array in descending order |
| <input type="radio"/>            | Call Heapify procedure             |
| <input type="radio"/>            | Find the number of input elements  |



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CS502:Grand Quiz

Quiz Star

Question # 12 of 30 ( Start time: 06:12:04 PM, 04 January 2021 )

Edit distance algorithm based on \_\_\_\_\_ strategy.

Select the correct option

- |                                  |                     |
|----------------------------------|---------------------|
| <input type="radio"/>            | Greedy              |
| <input checked="" type="radio"/> | Dynamic Programming |
| <input type="radio"/>            | Divide and Conquer  |
| <input type="radio"/>            | Brute force         |

Click to Save Ans



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## CS502:Grand Quiz

Question # 13 of 30 ( Start time: 06:12:25 PM, 04 January 2021 )

While applying the Sieve technique to selection sort, how to choose a pivot element.

Select the correct option

- |                                  |              |
|----------------------------------|--------------|
| <input type="radio"/>            | Through mean |
| <input type="radio"/>            | Linear       |
| <input checked="" type="radio"/> | Randomly     |
| <input type="radio"/>            | Sequentially |



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CS502:Grand Quiz

Quiz Start Time: 06:07 PM

Question # 14 of 30 ( Start time: 06:12:45 PM, 04 January 2021 )

In Dynamic Programming based solution of knapsack problem, to compute entries of 'V', we will imply a(n) \_\_\_\_\_ approach.

Select the correct option

- |                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | Subjective  |
| <input checked="" type="radio"/> | Inductive   |
| <input type="radio"/>            | Brute Force |
| <input type="radio"/>            | Combination |

Click to Save Answer & Move to



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## CS502:Grand Quiz

Question # 15 of 30 ( Start time: 06:13:10 PM, 04 January 2021 )

In Heap Sort algorithm, the total running time for Heapify procedure is \_\_\_\_\_.

Select the correct option

- |                                  |                          |
|----------------------------------|--------------------------|
| <input type="radio"/>            | Theta ( $\log n$ )       |
| <input checked="" type="radio"/> | Big-oh( $\log n$ )       |
| <input type="radio"/>            | Omega ( $\log n$ )       |
| <input type="radio"/>            | O (1) i.e. Constant time |



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## CS502:Grand Quiz

Question # 16 of 30 ( Start time: 06:13:32 PM, 04 January 2021 )

Recurrence can be described in terms of \_\_\_\_\_.

Select the correct option

- |                                  |        |
|----------------------------------|--------|
| <input type="radio"/>            | Array  |
| <input type="radio"/>            | Linear |
| <input checked="" type="radio"/> | Tree   |
| <input type="radio"/>            | Graph  |



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## CS502:Grand Quiz

Question # 17 of 30 ( Start time: 06:13:55 PM, 04 January 2021 )

To check whether a function grows faster or slower than the other function, we use some asymptotic notations, which is \_\_\_\_\_.

Select the correct option

- |                                  |                  |
|----------------------------------|------------------|
| <input type="radio"/>            | Big-oh notation  |
| <input type="radio"/>            | Theta notation   |
| <input type="radio"/>            | Omega notation   |
| <input checked="" type="radio"/> | All of the given |



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CS502:Grand Quiz

Quiz Star

Question # 18 of 30 ( Start time: 06:14:16 PM, 04 January 2021 )

We can use the optimal substructure property to devise a \_\_\_\_\_ formulation of the edit distance problem.

Select the correct option

- |                                  |           |
|----------------------------------|-----------|
| <input type="radio"/>            | Selective |
| <input type="radio"/>            | Optimum   |
| <input type="radio"/>            | Iterative |
| <input checked="" type="radio"/> | Recursive |

Click to Save Ans



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CS502:Grand Quiz

Quiz

Question # 19 of 30 ( Start time: 06:14:39 PM, 04 January 2021 )

One of the limitation in 0/1 knapsack is that an item can either be \_\_\_\_\_ in the bag or not.

Select the correct option

- |                                  |       |
|----------------------------------|-------|
| <input type="radio"/>            | Use   |
| <input checked="" type="radio"/> | Put   |
| <input type="radio"/>            | Move  |
| <input type="radio"/>            | Store |



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## CS502:Grand Quiz

Question # 20 of 30 ( Start time: 06:15:02 PM, 04 January 2021 )

Pseudo code of algorithms are to be read by \_\_\_\_\_.

Select the correct option

<input checked="" type="radio"/>	People
<input type="radio"/>	RAM
<input type="radio"/>	Computer
<input type="radio"/>	Compiler



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CS502:Grand Quiz

Quiz Start

Question # 21 of 30 ( Start time: 06:15:23 PM, 04 January 2021 )

The sieve technique works where we have to find \_\_\_\_\_ item(s) from a large input.

Select the correct option

- |                                  |         |
|----------------------------------|---------|
| <input checked="" type="radio"/> | Single  |
| <input type="radio"/>            | Two     |
| <input type="radio"/>            | Three   |
| <input type="radio"/>            | Similar |

Click on Answer



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## CS502:Grand Quiz

Question # 22 of 30 ( **Start time: 06:15:51 PM, 04 January 2021** )

Which of the following is calculated with Big O notation?

Select the correct option

- |                                  |                             |
|----------------------------------|-----------------------------|
| <input type="radio"/>            | Medium bounds               |
| <input checked="" type="radio"/> | Upper bounds                |
| <input type="radio"/>            | Lower bounds                |
| <input type="radio"/>            | Both upper and lower bounds |



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CS502:Grand Quiz

Question # 23 of 30 ( Start time: 06:16:14 PM, 04 January 2021 )

In chain matrix multiplication, the order of the matrices \_\_\_\_\_.

Select the correct option

- |                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | can be changed     |
| <input checked="" type="radio"/> | can not be changed |
| <input type="radio"/>            | is equal           |
| <input type="radio"/>            | is reverse         |



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CS502:Grand Quiz

Quiz Star

Question # 24 of 30 ( Start time: 06:16:35 PM, 04 January 2021 )

Quicksort is a/an \_\_\_\_\_ and \_\_\_\_\_ sorting algorithm.

Select the correct option

- |                                  |                              |
|----------------------------------|------------------------------|
| <input type="radio"/>            | Not in-place, not stable one |
| <input checked="" type="radio"/> | In-place, not stable one     |
| <input type="radio"/>            | In-place, stable one         |
| <input type="radio"/>            | Not in-place, stable one     |

Click to Save Ans



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## CS502:Grand Quiz

Question # 25 of 30 ( Start time: 06:16:57 PM, 04 January 2021 )

The following sequence is called \_\_\_\_\_.  
1,1,1,2,3,5,8,13,21,34,55,.....

Select the correct option

- |                                  |                      |
|----------------------------------|----------------------|
| <input type="radio"/>            | Optimize sequence    |
| <input checked="" type="radio"/> | Fibonacci sequence.  |
| <input type="radio"/>            | Optimal sequence     |
| <input type="radio"/>            | Overlapping sequence |



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CS502:Grand Quiz

G

Question # 26 of 30 ( Start time: 06:17:18 PM, 04 January 2021 )

Which one is not passed as parameter in Quick sort algorithm?

Select the correct option

- |                                  |                                   |
|----------------------------------|-----------------------------------|
| <input type="radio"/>            | End of the array                  |
| <input checked="" type="radio"/> | Middle of the array               |
| <input type="radio"/>            | Array (containing input elements) |
| <input type="radio"/>            | Start of the array                |

Click to Sa



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## CS502:Grand Quiz

Question # 27 of 30 ( Start time: 06:17:42 PM, 04 January 2021 )

What is the average running time of a quick sort algorithm?

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | $O(n^2)$      |
| <input type="radio"/>            | $O(n)$        |
| <input checked="" type="radio"/> | $O(n \log n)$ |
| <input type="radio"/>            | $O(\log n)$   |



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## CS502:Grand Quiz

Question # 28 of 30 ( Start time: 06:18:02 PM, 04 January 2021 )

Sorting is performed on the basis of \_\_\_\_\_.

Select the correct option

- |                                  |                             |
|----------------------------------|-----------------------------|
| <input type="radio"/>            | Computational resources     |
| <input type="radio"/>            | Asymptotic notation         |
| <input type="radio"/>            | Summation                   |
| <input checked="" type="radio"/> | Some key value or attribute |



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## CS502:Grand Quiz

Question # 29 of 30 ( Start time: 06:18:24 PM, 04 January 2021 )

The worst-case running time of merge sort is \_\_\_\_\_ in order to sort an array of n elements.

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | $O(\log n)$   |
| <input type="radio"/>            | $O(n)$        |
| <input checked="" type="radio"/> | $O(n \log n)$ |
| <input type="radio"/>            | $O(n^2)$      |



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CS502:Grand Quiz

Quiz Start Time:

Question # 30 of 30 ( Start time: 06:18:47 PM, 04 January 2021 )

While analyzing Selection algorithm, we make a number of passes, in fact it could be as many as \_\_\_\_\_.

Select the correct option

- |                                  |           |
|----------------------------------|-----------|
| <input type="radio"/>            | $n(n+1)$  |
| <input checked="" type="radio"/> | $\log(n)$ |
| <input type="radio"/>            | $n/3$     |
| <input type="radio"/>            | $n/4$     |

Click to Save Answer &



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## CS502:Grand Quiz

Question # 1 of 30 ( Start time: 12:30:51 PM, 04 January 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

- |                                  |       |
|----------------------------------|-------|
| <input type="radio"/>            | $n+1$ |
| <input type="radio"/>            | $n-1$ |
| <input type="radio"/>            | $n$   |
| <input checked="" type="radio"/> | $n*n$ |



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## CS502:Grand Quiz

Question # 2 of 30 ( Start time: 12:31:15 PM, 04 January 2021 )

Best \_\_\_\_\_ helps in minimizing algorithm cost.

Select the correct option

- |                                  |          |
|----------------------------------|----------|
| <input type="radio"/>            | Input    |
| <input type="radio"/>            | Output   |
| <input type="radio"/>            | Analysis |
| <input checked="" type="radio"/> | Design   |



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CS502:Grand Quiz

Quiz Star

Question # 3 of 30 ( Start time: 12:31:36 PM, 04 January 2021 )

The sieve technique works where we have to find \_\_\_\_\_ item(s) from a large input.

Select the correct option

<input checked="" type="radio"/>	Single
<input type="radio"/>	Two
<input type="radio"/>	Three
<input type="radio"/>	Similar



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CS502:Grand Quiz

Quiz Sta

Question # 4 of 30 ( Start time: 12:31:58 PM, 04 January 2021 )

While analyzing algorithms, \_\_\_\_\_ and \_\_\_\_\_ are usually considered difficult to calculate.

Select the correct option

- |                                  |                  |
|----------------------------------|------------------|
| <input type="radio"/>            | Finite, Infinite |
| <input checked="" type="radio"/> | Floor, ceiling   |
| <input type="radio"/>            | Row, Column      |
| <input type="radio"/>            | Graph, Tree      |

Click to Save Ans



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## CS502:Grand Quiz

Question # 5 of 30 ( Start time: 12:32:20 PM, 04 January 2021 )

In Dynamic Programming approach, solution is modified/changed \_\_\_\_\_.

Select the correct option

- |                                  |                            |
|----------------------------------|----------------------------|
| <input type="radio"/>            | Always once                |
| <input checked="" type="radio"/> | At each stage              |
| <input type="radio"/>            | Only for specific problems |
| <input type="radio"/>            | At 4th stage only          |



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## CS502:Grand Quiz

Question # 6 of 30 ( Start time: 12:32:42 PM, 04 January 2021 )

If there are  $\Theta(n^2)$  entries in edit distance matrix then the total running time is:

Select the correct option

- |                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | $\Theta(n)$        |
| <input type="radio"/>            | $\Theta(1)$        |
| <input checked="" type="radio"/> | $\Theta(n^2)$      |
| <input type="radio"/>            | $\Theta(n \log n)$ |



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## CS502:Grand Quiz

Question # 6 of 30 ( Start time: 12:32:42 PM, 04 January 2021 )

If there are  $\Theta(n^2)$  entries in edit distance matrix then the total running time is:

Select the correct option

- |                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | $\Theta(n)$        |
| <input type="radio"/>            | $\Theta(1)$        |
| <input checked="" type="radio"/> | $\Theta(n^2)$      |
| <input type="radio"/>            | $\Theta(n \log n)$ |



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CS502:Grand Quiz

Quiz 5

Question # 7 of 30 ( Start time: 12:33:23 PM, 04 January 2021 )

The process of \_\_\_\_\_ ends when you are left with such tiny pieces remaining that it is trivial to solve them.

Select the correct option

- |                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | Brute-force        |
| <input type="radio"/>            | Plan-sweep         |
| <input checked="" type="radio"/> | Divide and Conquer |
| <input type="radio"/>            | Axis-sweep         |



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## CS502:Grand Quiz

Question # 8 of 30 ( Start time: 12:33:47 PM, 04 January 2021 )

Radix sort is a \_\_\_\_\_ integer sorting algorithm.

Select the correct option

- |                                  |                 |
|----------------------------------|-----------------|
| <input type="radio"/>            | Comparative     |
| <input checked="" type="radio"/> | Non-comparative |
| <input type="radio"/>            | In-Place        |
| <input type="radio"/>            | Unstable        |



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CS502:Grand Quiz

Quiz Sta

Question # 9 of 30 ( Start time: 12:34:08 PM, 04 January 2021 )

Number of \_\_\_\_\_ of the pseudo code are counted to measure the running time.

Select the correct option

- |                                  |         |
|----------------------------------|---------|
| <input type="radio"/>            | Inputs  |
| <input type="radio"/>            | Outputs |
| <input checked="" type="radio"/> | Steps   |
| <input type="radio"/>            | Pages   |

Click to Save Ans



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## CS502:Grand Quiz

Question # 10 of 30 ( Start time: 12:34:29 PM, 04 January 2021 )

The running time of quick sort algorithm \_\_\_\_\_.

Select the correct option

- |                                  |  |
|----------------------------------|--|
| <input type="radio"/>            | Is impossible to compute                     |
| <input type="radio"/>            | Has nothing to do with pivot selection       |
| <input type="radio"/>            | Is Random upon each execution                |
| <input checked="" type="radio"/> | Greatly influenced by the selection of pivot |



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## CS502:Grand Quiz

Question # 11 of 30 ( Start time: 12:34:54 PM, 04 January 2021 )

Chain matrix multiplication problem can be solved through \_\_\_\_\_ strategy.

Select the correct option

- |                                  |                     |
|----------------------------------|---------------------|
| <input checked="" type="radio"/> | dynamic programming |
| <input type="radio"/>            | greedy              |
| <input type="radio"/>            | divide and conquer  |
| <input type="radio"/>            | Implementing arrays |



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## CS502:Grand Quiz

Question # 12 of 30 ( **Start time: 12:35:14 PM, 04 January 2021** )

Quick sort algorithm divide the entire array into \_\_\_\_\_ sub arrays.

Select the correct option

- |                                  |   |
|----------------------------------|---|
| <input checked="" type="radio"/> | 2 |
| <input type="radio"/>            | 3 |
| <input type="radio"/>            | 4 |
| <input type="radio"/>            | 5 |



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CS502:Grand Quiz

Quiz Start T

Question # 13 of 30 ( Start time: 12:35:36 PM, 04 January 2021 )

In quick sort algorithm, \_\_\_\_\_ decides nature of Binary Search Tree formed by pivots.

Select the correct option

- |                                  |                             |
|----------------------------------|-----------------------------|
| <input type="radio"/>            | middle element from input   |
| <input type="radio"/>            | smallest element from input |
| <input checked="" type="radio"/> | rank of the pivot           |
| <input type="radio"/>            | largest element from input  |

Click to Save Answer



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CS502:Grand Quiz

Quiz S

Question # 14 of 30 ( Start time: 12:35:56 PM, 04 January 2021 )

Approach of solving geometric problems by sweeping a line across the plane is called \_\_\_\_\_ sweep.

Select the correct option

- |                                  |       |
|----------------------------------|-------|
| <input type="radio"/>            | Line  |
| <input checked="" type="radio"/> | Plane |
| <input type="radio"/>            | Cube  |
| <input type="radio"/>            | Box   |

Click to Save A



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## CS502:Grand Quiz

Question # 15 of 30 ( Start time: 12:36:15 PM, 04 January 2021 )

In Heap Sort algorithm, if heap property is violated:

Select the correct option

- |                                  |                                     |
|----------------------------------|-------------------------------------|
| <input type="radio"/>            | We call Build heap procedure        |
| <input checked="" type="radio"/> | We call Heapify procedure           |
| <input type="radio"/>            | We ignore                           |
| <input type="radio"/>            | Heap property can never be violated |



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## CS502:Grand Quiz

Question # 16 of 30 ( Start time: 12:36:36 PM, 04 January 2021 )

What is the average running time of a quick sort algorithm?

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | $O(n^2)$      |
| <input type="radio"/>            | $O(n)$        |
| <input checked="" type="radio"/> | $O(n \log n)$ |
| <input type="radio"/>            | $O(\log n)$   |



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## CS502:Grand Quiz

Question # 17 of 30 ( **Start time: 12:36:55 PM, 04 January 2021** )

While solving Selection problem, in Sieve technique we partition input data \_\_\_\_\_

Select the correct option

- |                                  |                     |
|----------------------------------|---------------------|
| <input type="radio"/>            | In increasing order |
| <input type="radio"/>            | In decreasing order |
| <input checked="" type="radio"/> | According to Pivot  |
| <input type="radio"/>            | Randomly            |



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## CS502:Grand Quiz

Question # 18 of 30 ( **Start time: 12:37:18 PM, 04 January 2021** )

\_\_\_\_\_ items are not allowed in 0/1 Knapsack problem.

Select the correct option

- |                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | 0          |
| <input type="radio"/>            | 1          |
| <input type="radio"/>            | 0/1        |
| <input checked="" type="radio"/> | Fractional |



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Quiz Start Time

Question # 19 of 30 ( Start time: 12:37:43 PM, 04 January 2021 )

In quick sort algorithm, we choose pivot \_\_\_\_\_.

Select the correct option

- |                                  |                             |
|----------------------------------|-----------------------------|
| <input type="radio"/>            | always the smallest element |
| <input type="radio"/>            | greater than 5              |
| <input checked="" type="radio"/> | randomly                    |
| <input type="radio"/>            | less than 5                 |

Click to Save Answer



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## CS502:Grand Quiz

Question # 20 of 30 ( Start time: 12:38:04 PM, 04 January 2021 )

Matrix multiplication is a(n) \_\_\_\_\_ operation.

Select the correct option

- |                                  |                                     |
|----------------------------------|-------------------------------------|
| <input type="radio"/>            | Commutative                         |
| <input checked="" type="radio"/> | Associative                         |
| <input type="radio"/>            | Neither commutative nor associative |
| <input type="radio"/>            | Transitive                          |



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Quiz

Question # 21 of 30 ( Start time: 12:38:24 PM, 04 January 2021 )

The total no. of arguments passed to merge sort algorithm is \_\_\_\_\_.

Select the correct option

- |                                  |   |
|----------------------------------|---|
| <input type="radio"/>            | 2 |
| <input checked="" type="radio"/> | 3 |
| <input type="radio"/>            | 4 |
| <input type="radio"/>            | 5 |

Click to Save



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Quiz Start Time

Question # 22 of 30 ( Start time: 12:38:47 PM, 04 January 2021 )

Pseudo code of algorithms are to be read by \_\_\_\_\_.

Select the correct option

- |                                  |          |
|----------------------------------|----------|
| <input checked="" type="radio"/> | People   |
| <input type="radio"/>            | RAM      |
| <input type="radio"/>            | Computer |
| <input type="radio"/>            | Compiler |

Click to Save Answer &



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Question # 23 of 30 ( Start time: 12:39:11 PM, 04 January 2021 )

Consider three matrices X, Y, Z of dimensions  $1 \times 2$ ,  $2 \times 3$ ,  $3 \times 4$  respectively. The number of multiplications of  $(XY)Z$  is:

Select the correct option

- |                                  |    |
|----------------------------------|----|
| <input checked="" type="radio"/> | 18 |
| <input type="radio"/>            | 32 |
| <input type="radio"/>            | 24 |
| <input type="radio"/>            | 30 |

Click to Save An



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Quiz Start Time

Question # 24 of 30 ( Start time: 12:39:31 PM, 04 January 2021 )

If matrix A of dimension  $p \times q$  is multiplied with matrix B of dimension  $q \times r$ , then each entry in resultant matrix takes \_\_\_\_\_ time.

Select the correct option

- |                                  |                 |
|----------------------------------|-----------------|
| <input checked="" type="radio"/> | $O(q)$          |
| <input type="radio"/>            | $O(1)$          |
| <input type="radio"/>            | $O(p \times q)$ |
| <input type="radio"/>            | $O(q \times r)$ |

Click to Save Answer &



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Q

Question # 25 of 30 ( **Start time: 12:39:51 PM, 04 January 2021** )

As per algorithm of dynamic programming, we need to store the result(s) of \_\_\_\_\_.

Select the correct option

- |                                  |                           |
|----------------------------------|---------------------------|
| <input type="radio"/>            | First sub-problem only    |
| <input type="radio"/>            | Best solution only        |
| <input checked="" type="radio"/> | Intermediate sub-problems |
| <input type="radio"/>            | Final solution only       |



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Qui

Question # 26 of 30 ( Start time: 12:40:21 PM, 04 January 2021 )

Asymptotic growth of Plane-sweep algorithm for 2-D maxima problem is \_\_\_\_\_.

Select the correct option

- |                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | $\Theta(n)$        |
| <input type="radio"/>            | $\Theta(\log n)$   |
| <input checked="" type="radio"/> | $\Theta(n \log n)$ |
| <input type="radio"/>            | $\Theta(n^2)$      |

Click to Save



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## CS502:Grand Quiz

Question # 27 of 30 ( Start time: 12:40:43 PM, 04 January 2021 )

Efficient algorithm requires less computational \_\_\_\_\_.

Select the correct option

<input type="radio"/>	memory
<input type="radio"/>	running time
<input checked="" type="radio"/>	memory and running time
<input type="radio"/>	notation



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Q

Question # 28 of 30 ( Start time: 12:41:02 PM, 04 January 2021 )

Result of asymptotical analysis of  $n(n - 3)$  and  $4n*n$  is that \_\_\_\_\_.

Select the correct option

- |                                  |  |
|----------------------------------|--|
| <input type="radio"/>            | $n(n-1)$ is asymptotically Less        |
| <input type="radio"/>            | $n(n-1)$ is asymptotically Greater     |
| <input type="radio"/>            | Both are asymptotically Not equivalent |
| <input checked="" type="radio"/> | Both are asymptotically Equivalent     |



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Quiz Start Time: 12:30 PM, 04 .

Question # 29 of 30 ( Start time: 12:41:27 PM, 04 January 2021 )

If we associate  $(x, y)$  integers pair to cars where  $x$  is the speed of the car and  $y$  is the negation of the price. High  $y$  value for a car means a \_\_\_\_\_ car.

Select the correct option

<input type="radio"/>	Fast
<input type="radio"/>	Slow
<input type="radio"/>	Expensive
<input checked="" type="radio"/>	Cheap

Click to Save Answer & Move to Next



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Quiz

Question # 30 of 30 ( Start time: 12:41:51 PM, 04 January 2021 )

An in-place sorting algorithm is one that \_\_\_\_\_ use(s) additional array for storage.

Select the correct option

- |                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | Always      |
| <input type="radio"/>            | Permanently |
| <input checked="" type="radio"/> | Does not    |
| <input type="radio"/>            | Sometime    |



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## CS502:Grand Quiz

Question # 1 of 30 ( Start time: 12:55:20 PM, 04 January 2021 )

In Heap Sort algorithm, the first step is to \_\_\_\_\_.

Select the correct option

- |                                  |                                    |
|----------------------------------|------------------------------------|
| <input checked="" type="radio"/> | Call Build-Heap procedure          |
| <input type="radio"/>            | Sort the array in descending order |
| <input type="radio"/>            | Call Heapify procedure             |
| <input type="radio"/>            | Find the number of input elements  |



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CS502:Grand Quiz

Quiz

Question # 3 of 30 ( Start time: 12:55:59 PM, 04 January 2021 )

The main purpose of mathematical analysis is measuring the \_\_\_\_\_ required by the algorithm.

Select the correct option

- |                                  |                           |
|----------------------------------|---------------------------|
| <input type="radio"/>            | Space                     |
| <input type="radio"/>            | Execution time            |
| <input type="radio"/>            | Inputs & outputs          |
| <input checked="" type="radio"/> | Execution time and memory |

Click to Save



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CS502:Grand Quiz

Quiz Start Time: 12:55 PM, 04 Janu

Question # 4 of 30 ( Start time: 12:56:31 PM, 04 January 2021 )

Total

\_\_\_\_\_ is not useful measure of central tendency of given input set especially when the distribution of values is highly skewed.

Select the correct option

- |                                  |         |
|----------------------------------|---------|
| <input type="radio"/>            | Mean    |
| <input type="radio"/>            | Mode    |
| <input type="radio"/>            | Average |
| <input checked="" type="radio"/> | Median  |

Click to Save Answer & Move to Next Que



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## CS502:Grand Quiz

Question # 5 of 30 ( Start time: 12:56:51 PM, 04 January 2021 )

While solving Selection problem, in Sieve technique we choose pivot \_\_\_\_\_

Select the correct option

- |                                  |                 |
|----------------------------------|-----------------|
| <input type="radio"/>            | Minimum element |
| <input type="radio"/>            | Maximum element |
| <input checked="" type="radio"/> | Randomly        |
| <input type="radio"/>            | Average element |



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CS502:Grand Quiz

Quiz St

Question # 6 of 30 ( Start time: 12:57:14 PM, 04 January 2021 )

In Brute Force solution of Knapsack Problem, there are \_\_\_\_\_ possible combinations for n items.

Select the correct option

- |                                  |                                |
|----------------------------------|--------------------------------|
| <input type="radio"/>            | 2                              |
| <input type="radio"/>            | n                              |
| <input checked="" type="radio"/> | $2^n$ (2 raise to the power n) |
| <input type="radio"/>            | $3^n$ (3 raise to the power n) |

Click to Save An



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### CS502:Grand Quiz

Question # 7 of 30 ( Start time: 12:57:36 PM, 04 January 2021 )

An algorithm is a mathematical entity, which is independent of \_\_\_\_\_.

Select the correct option

- |                                  |  |
|----------------------------------|--|
| <input type="radio"/>            | Programming language                       |
| <input type="radio"/>            | Machine and Programming language           |
| <input type="radio"/>            | Compiler and Programming language          |
| <input checked="" type="radio"/> | Programming language, Compiler and Machine |

Click



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CS502:Grand Quiz

Quiz Start Tim

Question # 8 of 30 ( Start time: 12:58:00 PM, 04 January 2021 )

While analyzing algorithms, \_\_\_\_\_ and \_\_\_\_\_ are usually considered difficult to calculate.

Select the correct option

- |                                  |                  |
|----------------------------------|------------------|
| <input type="radio"/>            | Finite, Infinite |
| <input checked="" type="radio"/> | Floor, ceiling   |
| <input type="radio"/>            | Row, Column      |
| <input type="radio"/>            | Graph, Tree      |

Click to Save Answer



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## CS502:Grand Quiz

Question # 9 of 30 ( **Start time: 12:58:20 PM, 04 January 2021** )

In Bucket sort, if there are duplicates then each bin can be replaced by a

Select the correct option

- |                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | Stack       |
| <input checked="" type="radio"/> | Linked list |
| <input type="radio"/>            | Hash table  |
| <input type="radio"/>            | Heap        |



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CS502:Grand Quiz

Quiz 5

Question # 10 of 30 ( Start time: 12:58:46 PM, 04 January 2021 )

In Heap Sort algorithm, the maximum levels an element can move upward is \_\_\_\_\_.

Select the correct option

- |                                  |                          |
|----------------------------------|--------------------------|
| <input checked="" type="radio"/> | Theta ( $\log n$ )       |
| <input type="radio"/>            | Big-oh( $\log n$ )       |
| <input type="radio"/>            | Omega ( $\log n$ )       |
| <input type="radio"/>            | O (1) i.e. Constant time |



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CS502:Grand Quiz

Quiz Start Time: 12:

Question # 11 of 30 ( Start time: 12:59:12 PM, 04 January 2021 )

In max heap (for Heap Sort algorithm), when every time maximum element is removed from top we replace it with \_\_\_\_\_ leaf in the tree.

Select the correct option

<input type="radio"/>	Second last
<input checked="" type="radio"/>	Last
<input type="radio"/>	First
<input type="radio"/>	Any



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- 6) MCQs Solved
- 7) Solved Past and Current paper
- 8) Solved Graded Activities  
(Assignment Quiz GDB)

Activity  
Detailed  
Information

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- 2) DD (Design Document)
- 3) Test phase
  - a) Test phase viva (Live Classes for viva preparation)
- 4) Final Deliverable
  - a) Final coding
  - b) Final presentation
  - c) Final report
  - d) Pre final viva (Coding Viva)
  - e) Final viva (Overall Presentation)

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### Subjects Enrolment

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- 3) Recorded Videos
- 4) Topic wise Notes
- 5) Short QA Solved
- 6) MCQs Solved
- 7) Solved Past and Current paper
- 8) Solved Graded Activities  
(Assignment Quiz GDB)

Activity  
Detailed  
Information

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- 2) DD (Design Document)
- 3) Test phase
  - a) Test phase viva (Live Classes for viva preparation)
- 4) Final Deliverable
  - a) Final coding
  - b) Final presentation
  - c) Final report
  - d) Pre final viva (Coding Viva)
  - e) Final viva (Overall Presentation)

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