



03063548328 Sonu Ilyas Mughal

Jan-04-2K21

CS502 - Fundamentals of Algorithms



Grand Quiz 2020 (Covid-19)

100% Correct Solve (Alhamdulillah)

BY Virtual Assistance Sonu Ilyas Mughal



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https://www.youtube.com/channel/UCjboEX65C_yN7as5di10uIQ/playlists



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



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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 |

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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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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"/> | $\Theta(n \log n)$ |

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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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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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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 |

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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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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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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 |

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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"/> | $O(\log n)$ |

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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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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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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 |

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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 |

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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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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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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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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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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 |

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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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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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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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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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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 |

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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 |

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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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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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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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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 |

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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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Quiz Start

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

When matrix A of 5×3 is multiplied with matrix B of 3×4 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 |

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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 |

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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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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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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 |

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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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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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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 |

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DC180200848: AMBREEN KHANUM

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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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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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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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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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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

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

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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

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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 2×4 is multiplied with matrix B of dimension 4×3 , then the dimension of resultant matrix will be _____.

Select the correct option

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

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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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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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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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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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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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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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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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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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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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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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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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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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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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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Quiz Sta

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

If matrix A of dimension 2×4 is multiplied with matrix B of dimension 4×3 , then the dimension of resultant matrix will be _____.

Select the correct option

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

Click to Save Ans



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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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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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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 S

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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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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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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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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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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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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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 Next Question



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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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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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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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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"/> | (nlog(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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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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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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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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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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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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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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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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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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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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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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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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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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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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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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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 to Submit



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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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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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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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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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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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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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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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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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Quiz Start Time

Question # 9 of 30 (Start time: 06:28:12 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 Answer



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CS502:Grand Quiz

Question # 10 of 30 (Start time: 06:28:49 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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Question # 11 of 30 (Start time: 06:29:17 PM, 04 January 2021)

In 2-D maxima problem, A point p is said to be dominated by point q if _____.

Select the correct option

- | | |
|----------------------------------|-----------------------------------|
| <input type="radio"/> | $p.x = q.x$ and $p.y = q.y$ |
| <input type="radio"/> | $p.x \neq q.x$ and $p.y \neq q.y$ |
| <input type="radio"/> | $p.x \geq q.x$ and $p.y \geq q.y$ |
| <input checked="" type="radio"/> | $p.x \leq q.x$ and $p.y \leq q.y$ |



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Quiz Start T

Question # 12 of 30 (Start time: 06:29:40 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 |

Click to Save Answer



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Quiz Start Time: 06:24

Question # 13 of 30 (Start time: 06:30:02 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 |

Click to Save Answer & Move



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Question # 14 of 30 (Start time: 06:30:21 PM, 04 January 2021)

In Heap Sort algorithm, we call Build-heap procedure _____.

Select the correct option

- | | |
|----------------------------------|--------------------------|
| <input checked="" type="radio"/> | Only once |
| <input type="radio"/> | Twice |
| <input type="radio"/> | Thrice |
| <input type="radio"/> | As many times as we need |



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Quiz Start Ti

Question # 15 of 30 (Start time: 06:30:46 PM, 04 January 2021)

Which one sorting algorithm is best suited to sort an array of 2 million elements?

Select the correct option

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

Click to Save Answer



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Quiz Start

Question # 16 of 30 (Start time: 06:31:07 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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Quiz Start Time: 06:

Question # 17 of 30 (Start time: 06:31:25 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 Answer & Move



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Question # 18 of 30 (Start time: 06:31:46 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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Quiz Start Time: 06:24 PM, 04 Jan

Question # 19 of 30 (Start time: 06:32:09 PM, 04 January 2021)

Total

_____ is a method of solving a problem in which we check all possible solutions to the problem to find the solution we need.

Select the correct option

- | | |
|----------------------------------|-----------------------|
| <input type="radio"/> | Plane-Sweep Algorithm |
| <input type="radio"/> | Sorting Algorithm |
| <input checked="" type="radio"/> | Brute-Force Algorithm |
| <input type="radio"/> | Greedy approach |

Click to Save Answer & Move to Next Qu



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Quiz Start Time

Question # 20 of 30 (Start time: 06:32:37 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



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Quiz Start Ti

Question # 21 of 30 (Start time: 06:33:02 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 |

Click to Save Answer



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Quiz Start Time

Question # 22 of 30 (Start time: 06:33:25 PM, 04 January 2021)

What time does Merge Sort algorithm take in order to sort an array of 'n' numbers?

Select the correct option

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

Click to Save Answer



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Quiz

Question # 23 of 30 (Start time: 06:33:45 PM, 04 January 2021)

Which symbol is used for Omega notation?

Select the correct option

- | | |
|----------------------------------|------------|
| <input type="radio"/> | (O) |
| <input type="radio"/> | (θ) |
| <input checked="" type="radio"/> | (Ω) |
| <input type="radio"/> | $(@)$ |

Click to Save



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Question # 24 of 30 (Start time: 06:34:06 PM, 04 January 2021)

Random Access Machine (RAM) can execute _____ instructions.

Select the correct option

- | | |
|----------------------------------|------------------------|
| <input type="radio"/> | only logical |
| <input type="radio"/> | parallel |
| <input type="radio"/> | only arithmetic |
| <input checked="" type="radio"/> | logical and arithmetic |



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Quiz Start

Question # 25 of 30 (Start time: 06:34:25 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"/> | $n \times n \log(n)$ |

Click to Save Ansv



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Question # 26 of 30 (Start time: 06:34:50 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 |



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Question # 27 of 30 (Start time: 06:35:11 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



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CS502:Grand Quiz

Quiz Start Time: 06:24 PM

Question # 28 of 30 (Start time: 06:35:33 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 |

Click to Save Answer & Move to



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Question # 29 of 30 (Start time: 06:35:55 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 |



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Quiz Start Time: 06:24

Question # 30 of 30 (Start time: 06:36:17 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 & Move



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Question # 1 of 30 (Start time: 06:40:10 PM, 04 January 2021)

_____ time is the maximum running time over all legal inputs.

Select the correct option

- | | |
|----------------------------------|--------------|
| <input checked="" type="radio"/> | Worst-case |
| <input type="radio"/> | Average-case |
| <input type="radio"/> | Best-case |
| <input type="radio"/> | Good-case |

Click to Save



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Question # 2 of 30 (Start time: 06:40:40 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 |

Click to Save



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Question # 3 of 30 (Start time: 06:40:59 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"/> | $\Theta(n \log n)$ |

Click to Save An



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Quiz Start

Question # 4 of 30 (Start time: 06:41:32 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 Ansv



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Question # 5 of 30 (Start time: 06:41:56 PM, 04 January 2021)

Which one of the following is worst case time complexity of merge sort?

Select the correct option

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



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Quiz Star

Question # 6 of 30 (Start time: 06:42:21 PM, 04 January 2021)

The O-notation is used to state only the asymptotic _____ bounds.

Select the correct option

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

Click to Save Ans



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CS502:Grand Quiz

Quiz Start Time

Question # 7 of 30 (Start time: 06:42:48 PM, 04 January 2021)

Counting sort assumes that the numbers to be sorted are in the range _____.

Select the correct option

- | | |
|----------------------------------|-------------------------|
| <input type="radio"/> | k to n where n is large |
| <input checked="" type="radio"/> | 1 to k where k is small |
| <input type="radio"/> | k to n where k is small |
| <input type="radio"/> | k to n where n is small |

Click to Save Answer &



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Question # 8 of 30 (Start time: 06:43:11 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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Quiz Start T

Question # 9 of 30 (Start time: 06:43:33 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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Quiz Start T

Question # 10 of 30 (Start time: 06:43:55 PM, 04 January 2021)

Cubic function will _____ a quadratic function.

Select the correct option

- | | |
|----------------------------------|-------------|
| <input type="radio"/> | prove |
| <input type="radio"/> | be equal to |
| <input checked="" type="radio"/> | overtake |
| <input type="radio"/> | find |

Click to Save Answer



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Question # 11 of 30 (Start time: 06:44:21 PM, 04 January 2021)

In Knapsack Problem, each item must be entirely accepted or rejected, is called _____ problem.

Select the correct option

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

Click to



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Question # 12 of 30 (Start time: 06:44:52 PM, 04 January 2021)

Merge sort have running time _____ the running time of heap sort.

Select the correct option

- | | |
|----------------------------------|----------------------|
| <input type="radio"/> | greater than |
| <input type="radio"/> | less than |
| <input checked="" type="radio"/> | equal to |
| <input type="radio"/> | asymptotically equal |



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Quiz

Question # 13 of 30 (Start time: 06:45:12 PM, 04 January 2021)

In the following code the statement "cout<<i;" executes ----- times.
for (int i = 1; i<=n ;i++)
cout<<i;

Select the correct option

- | | |
|----------------------------------|----------------|
| <input checked="" type="radio"/> | n times |
| <input type="radio"/> | n+5 times |
| <input type="radio"/> | Infinite times |
| <input type="radio"/> | Zero times |

Click to Save



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Question # 14 of 30 (Start time: 06:45:42 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 Start Time: 06:4

Question # 15 of 30 (Start time: 06:46:04 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 to Save Answer & Move



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CS502:Grand Quiz

Quiz Start Time: 0

Question # 16 of 30 (Start time: 06:46:26 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 |

Click to Save Answer & M



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INSTITUTE: EASTERN HORIZON

CS502:Grand Quiz

Quiz 5

Question # 17 of 30 (Start time: 06:46:48 PM, 04 January 2021)

Merge sort is based on_____.

Select the correct option

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

Click to Save



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CS502:Grand Quiz

Quiz S

Question # 18 of 30 (Start time: 06:47:12 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 A



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CS502:Grand Quiz

Quiz Start Time: 06:4

Question # 19 of 30 (Start time: 06:47:48 PM, 04 January 2021)

Asymptotic growth of $8n^2 + 2n - 3$ is :

Select the correct option



- | | |
|----------------------------------|---------------------|
| <input type="radio"/> | $\Theta(n^2 + n)$ |
| <input checked="" type="radio"/> | $\Theta(n^2)$ |
| <input type="radio"/> | $\Theta(8n^2)$ |
| <input type="radio"/> | $\Theta(8n^2 + 2n)$ |



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CS502:Grand Quiz

Quiz Start Time: 06:40 PM, 0

Question # 20 of 30 (Start time: 06:48:10 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 |

Click to Save Answer & Move to Ne



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CS502:Grand Quiz

Quiz Start Time:

Question # 21 of 30 (Start time: 06:48:34 PM, 04 January 2021)

In chain matrix multiplication, if there are n items, there are _____ ways in which outer most pair of parentheses can placed.

Select the correct option

- | | |
|----------------------------------|-------|
| <input type="radio"/> | n^2 |
| <input type="radio"/> | $2n$ |
| <input type="radio"/> | $n+1$ |
| <input checked="" type="radio"/> | $n-1$ |

Click to Save Answer &



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CS502:Grand Quiz

Quiz Start Time: 06:40 PM, 04

Question # 22 of 30 (Start time: 06:48:54 PM, 04 January 2021)

To find maximal points in brute-force algorithm, each point of the space is compared against _____ of that space.

Select the correct option

<input type="radio"/>	One other point
<input checked="" type="radio"/>	All other points
<input type="radio"/>	Few other points
<input type="radio"/>	Most of the other points

Click to Save Answer & Move to Next



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Quiz Start

Question # 23 of 30 (Start time: 06:49:18 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: 06:40 PM

Question # 24 of 30 (Start time: 06:49:41 PM, 04 January 2021)

The Knapsack problem belongs to the domain of _____ problems.

Select the correct option

- | | |
|----------------------------------|-----------------|
| <input checked="" type="radio"/> | Optimization |
| <input type="radio"/> | Sorting |
| <input type="radio"/> | Linear solution |
| <input type="radio"/> | Searching |

Click to Save Answer & Move to



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Quiz Start Time

Question # 25 of 30 (Start time: 06:50:02 PM, 04 January 2021)

For quick sort algorithm, partitioning takes theta _____.

Select the correct option

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

Click to Save Answer &



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Quiz Start Time: 06

Question # 26 of 30 (Start time: 06:50:26 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 & Me



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Quiz Start Time: 01

Question # 27 of 30 (Start time: 06:50:46 PM, 04 January 2021)

We can use the _____ property to devise a recursive formulation of the edit distance problem.

Select the correct option

- | | |
|----------------------------------|----------------------|
| <input type="radio"/> | small substructure |
| <input type="radio"/> | algorithmic |
| <input type="radio"/> | real |
| <input checked="" type="radio"/> | optimal substructure |



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Quiz Start Time: 06:40 P

Question # 28 of 30 (Start time: 06:51:13 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 |

Click to Save Answer & Move to



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Quiz Start Ti

Question # 29 of 30 (Start time: 06:51:40 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



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Quiz Start Time: (

Question # 30 of 30 (Start time: 06:52:04 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 Save Answer & M



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Quiz St

Question # 1 of 30 (Start time: 07:00:14 PM, 04 January 2021)

Merge sort have running time _____ the running time of heap sort.

Select the correct option

- | | |
|----------------------------------|----------------------|
| <input type="radio"/> | greater than |
| <input type="radio"/> | less than |
| <input checked="" type="radio"/> | equal to |
| <input type="radio"/> | asymptotically equal |

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Quiz Start Time:

Question # 2 of 30 (Start time: 07:00:44 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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Quiz 5

Question # 3 of 30 (Start time: 07:01:38 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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Quiz Start Time: 0

Question # 4 of 30 (Start time: 07:02:07 PM, 04 January 2021)

In 2-D maxima problem, A point p is said to be dominated by point q if _____.

Select the correct option

- | | |
|----------------------------------|-----------------------------------|
| <input type="radio"/> | $p.x = q.x$ and $p.y = q.y$ |
| <input type="radio"/> | $p.x \neq q.x$ and $p.y \neq q.y$ |
| <input type="radio"/> | $p.x \geq q.x$ and $p.y \geq q.y$ |
| <input checked="" type="radio"/> | $p.x \leq q.x$ and $p.y \leq q.y$ |



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Question # 5 of 30 (Start time: 07:02:27 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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Quiz Sta

Question # 6 of 30 (Start time: 07:02:49 PM, 04 January 2021)

If input "n" is odd, then median will be _____

Select the correct option

- | | |
|----------------------------------|-----------|
| <input checked="" type="radio"/> | $(n+1)/2$ |
| <input type="radio"/> | $n/2$ |
| <input type="radio"/> | $(n-1)/2$ |
| <input type="radio"/> | $n + 2$ |

Click to Save An



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Quiz 1

Question # 7 of 30 (Start time: 07:03:11 PM, 04 January 2021)

Sorting can be in _____.

Select the correct option

- | | |
|----------------------------------|--------------------------------------|
| <input type="radio"/> | Increasing order only |
| <input type="radio"/> | Decreasing order only |
| <input checked="" type="radio"/> | Both Increasing and Decreasing order |
| <input type="radio"/> | Random order |

Click to Save



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Quiz Star

Question # 8 of 30 (Start time: 07:03:30 PM, 04 January 2021)

In Dynamic Programming based solution of Knapsack Problem, if we decide to take an object 'i', then we gain _____.

Select the correct option

- | | |
|----------------------------------|------------------------------|
| <input type="radio"/> | W (Total Weight of Knapsack) |
| <input type="radio"/> | V (Total Value of all items) |
| <input checked="" type="radio"/> | v_i (Value of object i) |
| <input type="radio"/> | None of the given option |



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Quiz

Question # 9 of 30 (Start time: 07:03:50 PM, 04 January 2021)

The running time of brute-force algorithm to solve Knapsack problem is _____.

Select the correct option

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

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Quiz Start Ti

Question # 10 of 30 (Start time: 07:04:11 PM, 04 January 2021)

In Knapsack Problem, the goal is to put items in the knapsack such that the value of the items is _____ subject to weight limit of knapsack.

Select the correct option

<input type="radio"/>	Minimized
<input type="radio"/>	Decreased
<input checked="" type="radio"/>	Maximized
<input type="radio"/>	None of the given options

Click to Save Answer



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Question # 11 of 30 (Start time: 07:04:33 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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Question # 12 of 30 (**Start time: 07:04:55 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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Question # 13 of 30 (Start time: 07:05:17 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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Quiz Sta

Question # 14 of 30 (Start time: 07:05:36 PM, 04 January 2021)

In plane sweep approach of solving geometric problems, a _____ is swept across the plane.

Select the correct option

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

Click to Save Ans



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Question # 15 of 30 (**Start time: 07:05:56 PM, 04 January 2021**)

Cubic function will _____ a quadratic function.

Select the correct option

- | | |
|----------------------------------|-------------|
| <input type="radio"/> | prove |
| <input type="radio"/> | be equal to |
| <input checked="" type="radio"/> | overtake |
| <input type="radio"/> | find |



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Quiz Start

Question # 16 of 30 (Start time: 07:06:18 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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Question # 17 of 30 (Start time: 07:06:39 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 |



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Quiz Start

Question # 18 of 30 (Start time: 07:06:59 PM, 04 January 2021)

In the statement "output P[i].x, P[i].y", the number of times elements of P are accessed is _____

Select the correct option

- | | |
|----------------------------------|---|
| <input type="radio"/> | 1 |
| <input checked="" type="radio"/> | 2 |
| <input type="radio"/> | 3 |
| <input type="radio"/> | 4 |

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Quiz Start

Question # 19 of 30 (Start time: 07:07:21 PM, 04 January 2021)

The sieve technique is a special case, where the number of sub-problems is just _____

Select the correct option

- | | |
|----------------------------------|---|
| <input checked="" type="radio"/> | 1 |
| <input type="radio"/> | 2 |
| <input type="radio"/> | 3 |
| <input type="radio"/> | 4 |

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G

Question # 20 of 30 (Start time: 07:07:50 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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Question # 21 of 30 (Start time: 07:08:16 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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Quiz Start Time

Question # 22 of 30 (Start time: 07:08:43 PM, 04 January 2021)

For comparison-based sorting algorithms, it is _____ possible to sort more efficiently than Omega $n \log(n)$ time.

Select the correct option

<input type="radio"/>	Always
<input checked="" type="radio"/>	Not
<input type="radio"/>	Sometimes
<input type="radio"/>	Sometimes not

Click to Save Answer



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Quiz Start Time

Question # 23 of 30 (Start time: 07:09:07 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 |

Click to Save Answer &



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Question # 24 of 30 (**Start time: 07:09:32 PM, 04 January 2021**)

In Sieve Technique, we know the item of interest.

Select the correct option

<input type="radio"/>	True
<input checked="" type="radio"/>	False



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Quiz Start Time

Question # 25 of 30 (Start time: 07:09:55 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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Question # 26 of 30 (Start time: 07:10:14 PM, 04 January 2021)

_____ of reference is an important fact of current processor technology.

Select the correct option

- | | |
|----------------------------------|-----------|
| <input type="radio"/> | Defining |
| <input type="radio"/> | Assigning |
| <input type="radio"/> | Formality |
| <input checked="" type="radio"/> | Locality |

Click



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Quiz 5

Question # 27 of 30 (Start time: 07:10:39 PM, 04 January 2021)

Which symbol is used for Omega notation?

Select the correct option

- | | |
|----------------------------------|-----|
| <input type="radio"/> | (O) |
| <input type="radio"/> | (θ) |
| <input checked="" type="radio"/> | (Ω) |
| <input type="radio"/> | (@) |

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Quiz Start Time:

Question # 28 of 30 (Start time: 07:11:04 PM, 04 January 2021)

An algorithm is said to be correct if for every _____ instance, it halts with the correct _____.

Select the correct option

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



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Question # 29 of 30 (Start time: 07:11:23 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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Quiz Start T

Question # 30 of 30 (Start time: 07:11:45 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 Answ



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Question # 1 of 30 (Start time: 07:14:49 PM, 04 January 2021)

The definition of theta-notation relies on proving _____ asymptotic bound.

Select the correct option

- | | |
|----------------------------------|----------------------|
| <input type="radio"/> | one |
| <input type="radio"/> | lower |
| <input type="radio"/> | upper |
| <input checked="" type="radio"/> | both lower and upper |



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CS502:Grand Quiz

Quiz Start Time:

Question # 2 of 30 (Start time: 07:15:41 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 |

Click to Save Answer &



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Quiz Sta

Question # 3 of 30 (Start time: 07:16:02 PM, 04 January 2021)

A sorting algorithm is called as _____ if duplicate elements remain in the same relative position after sorting.

Select the correct option

- | | |
|----------------------------------|------------------|
| <input type="radio"/> | Parallel |
| <input type="radio"/> | $O(n)$ algorithm |
| <input checked="" type="radio"/> | Stable |
| <input type="radio"/> | Complex |

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Question # 4 of 30 (Start time: 07:16:22 PM, 04 January 2021)

In the statement
"if ($P[i].x < P[j].x$) & ($P[i].y < P[j].y$)",
the number of times elements of P are accessed is _____

Select the correct option

- | | |
|----------------------------------|---|
| <input type="radio"/> | 1 |
| <input type="radio"/> | 2 |
| <input type="radio"/> | 3 |
| <input checked="" type="radio"/> | 4 |



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CS502:Grand Quiz

Quiz Start Time: 07:14 PM, 0

Question # 5 of 30 (Start time: 07:16:43 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="checkbox"/> | Fractional |

Click to Save Answer & Move to Ne



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Quiz St

Question # 6 of 30 (Start time: 07:17:03 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 Save A



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Qu

Question # 7 of 30 (Start time: 07:17:27 PM, 04 January 2021)

If input "n" is odd, then median will be _____

Select the correct option

- | | |
|----------------------------------|-----------|
| <input checked="" type="radio"/> | $(n+1)/2$ |
| <input type="radio"/> | $n/2$ |
| <input type="radio"/> | $(n-1)/2$ |
| <input type="radio"/> | $n + 2$ |

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Quiz Start

Question # 8 of 30 (Start time: 07:17:50 PM, 04 January 2021)

Asymptotic growth of $8n^2 + 2n - 3$ is :

Select the correct option

- | | |
|----------------------------------|---------------------|
| <input type="radio"/> | $\Theta(n^2 + n)$ |
| <input checked="" type="radio"/> | $\Theta(n^2)$ |
| <input type="radio"/> | $\Theta(8n^2)$ |
| <input type="radio"/> | $\Theta(8n^2 + 2n)$ |

Click to Save Answ



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Question # 9 of 30 (Start time: 07:18:19 PM, 04 January 2021)

To predict the cost of an algorithm in terms of resources is called _____.

Select the correct option

<input type="radio"/>	Key
<input checked="" type="radio"/>	Analysis
<input type="radio"/>	Design
<input type="radio"/>	Output



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CS502:Grand Quiz

Quiz Start Time: 07

Question # 10 of 30 (Start time: 07:18:47 PM, 04 January 2021)

Consider three matrices X, Y, Z of dimensions 1×2 , 2×3 , 3×4 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 Answer & Me



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Question # 11 of 30 (Start time: 07:19:09 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 |



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CS502:Grand Quiz

Quiz Start Time:

Question # 12 of 30 (Start time: 07:19:31 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"/> | $\Theta(n \log n)$ |

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Question # 13 of 30 (Start time: 07:19:51 PM, 04 January 2021)

Upper bound requires that there exist positive constants c_2 and n_0 such that $f(n)$ _____ c_2n for all $n \leq n_0$

Select the correct option

- | | |
|----------------------------------|-----------------------|
| <input type="radio"/> | Less than |
| <input checked="" type="radio"/> | Equal to or Less than |
| <input type="radio"/> | Equal or Greater than |
| <input type="radio"/> | Greater than |



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Qui

Question # 14 of 30 (Start time: 07:20:13 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



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Question # 15 of 30 (Start time: 07:20:34 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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Quiz Start 1

Question # 16 of 30 (Start time: 07:20:59 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 |

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Question # 17 of 30 (Start time: 07:21:22 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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Quiz St

Question # 18 of 30 (Start time: 07:21:52 PM, 04 January 2021)

Random Access Machine (RAM) can execute _____ instructions.

Select the correct option

- | | |
|----------------------------------|------------------------|
| <input type="radio"/> | only logical |
| <input type="radio"/> | parallel |
| <input type="radio"/> | only arithmetic |
| <input checked="" type="radio"/> | logical and arithmetic |



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Quiz Start Time:

Question # 19 of 30 (Start time: 07:22:12 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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Question # 20 of 30 (Start time: 07:22:33 PM, 04 January 2021)

Bubble 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"/> | $n\log(n)$ |



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Quiz Start Time

Question # 21 of 30 (Start time: 07:22:52 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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Question # 22 of 30 (Start time: 07:23:13 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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Question # 23 of 30 (Start time: 07:23:36 PM, 04 January 2021)

Which of the following is calculated with Big Omega notation?

Select the correct option

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



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Quiz Sta

Question # 24 of 30 (Start time: 07:23:57 PM, 04 January 2021)

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

Select the correct option

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

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Question # 25 of 30 (Start time: 07:24:21 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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Q

Question # 26 of 30 (**Start time: 07:24:40 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 |

Click to Sa



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Question # 27 of 30 (**Start time: 07:25:01 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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Question # 28 of 30 (**Start time: 07:25:23 PM, 04 January 2021**)

The problem with the brute-force algorithm is that it uses _____ in pruning out decisions.

Select the correct option

- | | |
|----------------------------------|-------------------------|
| <input type="radio"/> | Worst-case time |
| <input checked="" type="radio"/> | No intelligence |
| <input type="radio"/> | Outside looping |
| <input type="radio"/> | Artificial intelligence |



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Quiz Start Time: 07

Question # 29 of 30 (Start time: 07:25:43 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 Answer & Mo



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Quiz S

Question # 30 of 30 (Start time: 07:26:03 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 |

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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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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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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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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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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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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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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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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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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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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 |

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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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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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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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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 |

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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 |

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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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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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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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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 |

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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 |

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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 |

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Quiz Sta

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

Consider three matrices X, Y, Z of dimensions 1×2 , 2×3 , 3×4 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 |

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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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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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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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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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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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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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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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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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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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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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Quiz Start Time: 12:

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

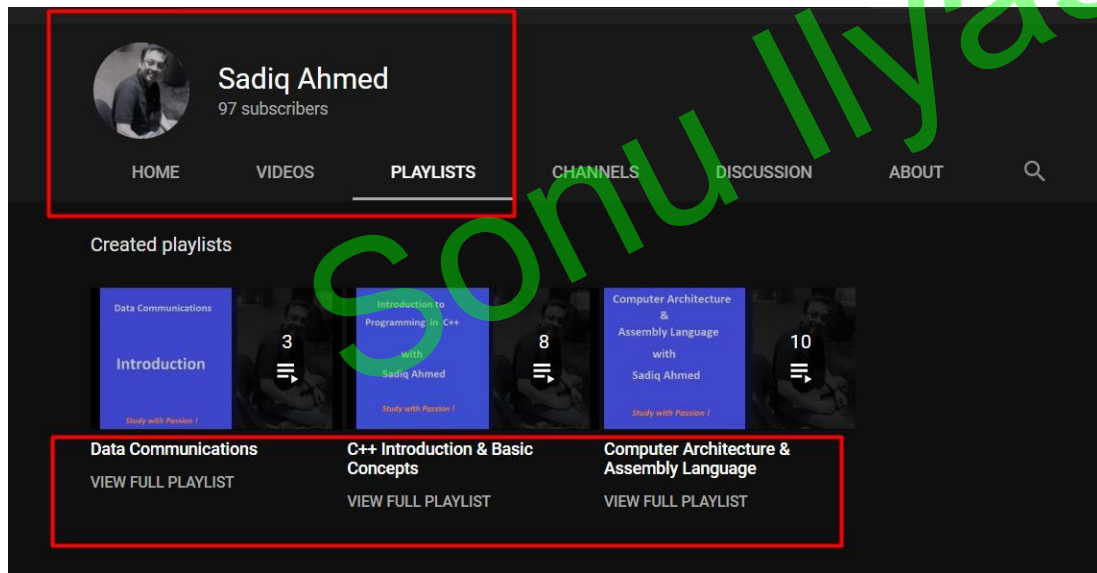
In max heap (for Heap Sort algorithm), when every time maximum element is removed from top we replace it with _____ leaf in the tree.

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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The image shows a YouTube channel page for Sadiq Ahmed. The channel name is "Sadiq Ahmed" with 97 subscribers. The navigation menu includes HOME, VIDEOS, PLAYLISTS (which is selected), CHANNELS, DISCUSSION, and ABOUT. Below the navigation, there is a section titled "Created playlists" which displays three playlist cards. Each card shows the playlist title, a thumbnail, and the number of videos in the playlist. The first card is "Data Communications Introduction" with 3 videos. The second card is "Introduction to Programming in C++ with Sadiq Ahmed" with 8 videos. The third card is "Computer Architecture & Assembly Language with Sadiq Ahmed" with 10 videos. Below each card is a "VIEW FULL PLAYLIST" link.

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- 1) Lecture live on Zoom
- 2) Written Lectures (pdf)
- 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

Project Enrolment Complete training with Live classes on Zoom

- 1) SRS (Software Requirements Specification)
- 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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