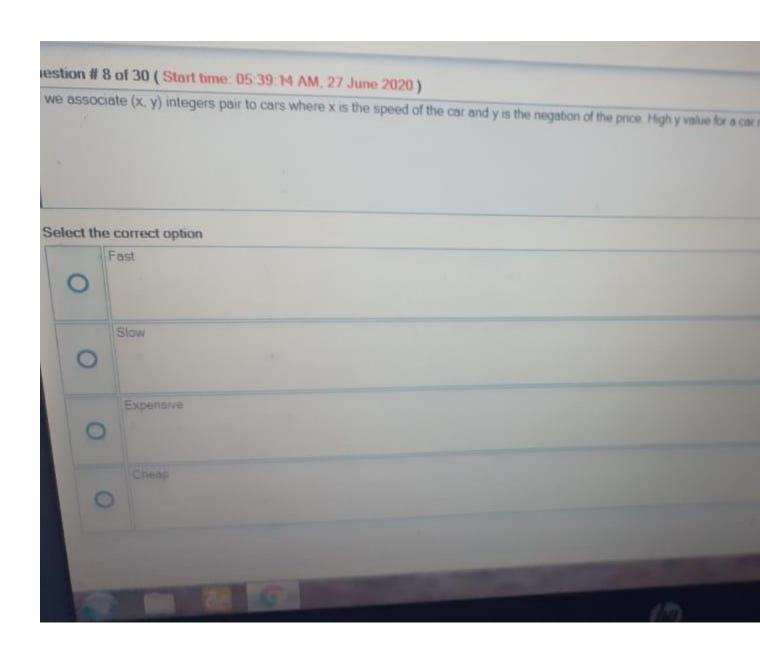# Cs502 today midterm grand quiz

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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

Select the correct option

	Fast
O	
	Slow
O	
	Expensive
O	
	Cheap
O	

In Fibonacci Sequence. each term is calculated by_____ previous _____ terms.

Select the correct option

Subtracting, Two
O

Adding, Three
O

Adding, Two
O

Multiplying, Two
O

CS502:Grand Quiz

_____ is one of the few problems, where provable lower bounds exist on how fast we can sort.

Select the correct option

Searching
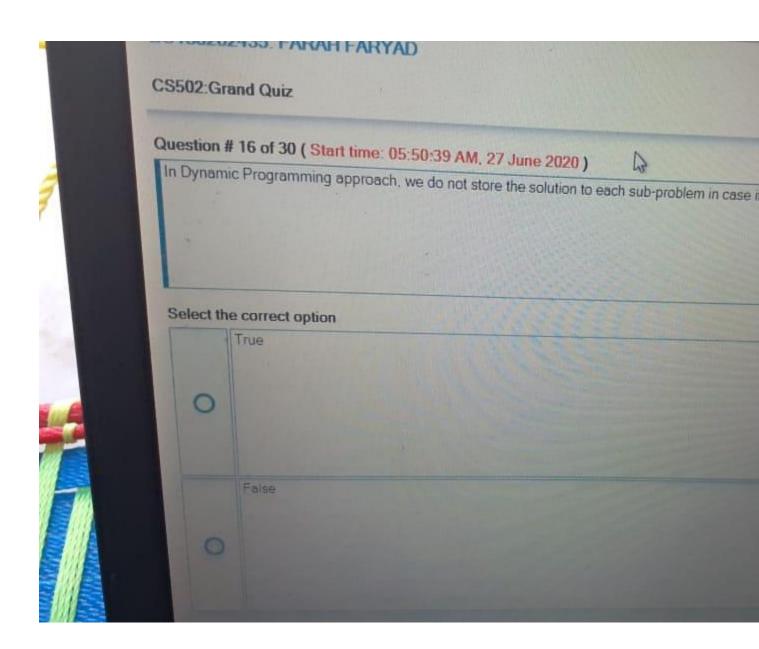
○

Sorting

○

Both Searching & Sorting

○

Graphing

○

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

Select the correct option

O One other point

O All other points

O Few other points

O Most of the other points

If pj dominates pi and pi dominates ph then pj also dominates ph. It means dominance relation is _____

Select the correct option

	Transitive
O	

	Non Transitive
O	

	Equation
O	

	Symbolic
O	

The sequence of merge sort algorithm is:

Select the correct option

Divide-Combine-Conquer

○

Conquer-Divide-Combine

○

Divide-Conquer-Combine

○

Combine-Divide-Conquer

○

Merge sort is a/an _____ and _____ sorting algorithm.

Select the correct option

O	Not in-place, not stable one
O	In-place, not stable one
O	In-place, stable one
O	Not in-place, stable one

Question # 15 of 30 (Start time: 05:48:57 AM, 27 June 2020)

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

Select the correct option

- ○ Line
- ○ Plane
- ○ Cube
- ○ Box

CS502:Grand Quiz

Question # 16 of 30 (Start time: 05:50:39 AM, 27 June 2020)

In Dynamic Programming approach, we do not store the solution to each sub-problem in case

Select the correct option

True

○

False

○

Edit distance algorithm based on ----------------------- strategy.

Select the correct option

Greedy

O

Dynamic Programming

O

Divide and Conquer

O

Searching

O

The running time of Quick sort algorithm _____

Select the correct option

	Is impossible to compute
O	

	Has nothing to do with pivot selection
O	

	Is Random upon each execution
O	

	Greatly influenced by the selection of pivot
O	

In Heap Sort algorithm, the maximum levels an element can move upward is _____

Select the correct option

Theta (log n)

○

Order (log n)

○

Omega (log n)

○

O (1) i e Constant time

○

CS502:Grand Quiz

_____ overcomes the limitations of _____ by working as per positional notations of numbers.

Select the correct option

Counting sort, Radix sort

O

Radix sort, Counting sort

O

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

Select the correct option

- ○ Line

- ○ Plane

- ○ Cube

- ○ Box

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

Select the correct option

- ○ 1
- ○ 2
- ○ 3
- ○ 4

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

Select the correct option

Merge sort algorithm

○

Selection problem

○

Brute force technique

○

Plane Sweep algorithm

○

Quick sort algorithm was developed by _____

Select the correct option

- ○ Alfred Aho

- ○ Sedgewick

- ○ John Vincent Atanasoff

- ○ Tony Hoare

Sorting is performed on the basis of _____

Select the correct option

	Computational resources
○	

	Asymptotic notation
○	

	Summation
○	

	Some key value or attribute
○	

_____ is a linear time sorting algorithm.

Select the correct option

○ Merge sort

○ Radix sort

○ Quick sort

○ Bubble sort

In Heap Sort algorithm, we build _____ for ascending sort.

Select the correct option

Max heap

O

Min heap

O

In Fibonacci Sequence, unnecessary repetitions do not exist at all.

Select the correct option

	True
O	

	False
O	

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

$\Theta(n)$

○

$\Theta(n^2)$

○

$\Theta(1)$

○

$\Theta(n \log n)$

○

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

Select the correct option

$\Theta(n)$

O

$\Theta(\log n)$

O

$\Theta(n^2)$

O

$\Theta(n \log n)$

O

Question # 1 of 30 (Start time: 06:48:08 AM, 27 June 2020)   Total Marks: 1

In selection problem, the rank of an element will be its _____ position if we sort the input data.

Select the correct option

○ first

○ final

○ Second last

○ Last

Click to Save Answer & Move to Next Question

ⓘ quiz.vu.edu.pk/QuizQuestion   ③   ⋮

MC180402031: SALEHA WAHEED   Time Left | 87 sec(s)

CS502:Grand Quiz   Quiz Start Time: 06:48 AM, 27 June 2020

Question # 2 of 30 (Start time: 06:49:39 AM, 27 June 2020)   Total Marks: 1

We can make _____ recursive calls in Fibonacci Sequence.

Select the correct option

○ Infinite

○ Finite

Click to Save Answer & Move to Next Question

Question # 3 of 30 (Start time: 06:50:16 AM, 27 June 2020)   Total Marks: 1

In Heap Sort algorithm (using max heap), when every time maximum element is removed from top _____

Select the correct option

○ We call merge Sort algorithm

○ It becomes Order n2 Algorithm

○ Divide and Conquer strategy helps us

○ We are left with a hole

Click to Save Answer & Move to Next Question

MC180402031: SALEHA WAHEED

Time Left | 86 sec(s)

CS502:Grand Quiz

Quiz Start Time: 06:48 AM, 27 June 2020

Question # 4 of 30 (Start time: 06:51:51 AM, 27 June 2020)

Total Marks: 1

Dynamic Programming strategy is useful when sub-problems are independent.

Select the correct option

○ True

○ False

Click to Save Answer & Move to Next Question

Question # 5 of 30 (Start time: 06:53:11 AM, 27 June 2020)   Total Marks: 1

In order to say anything meaningful about our algorithms, it will be important for us to settle on a _____.

Select the correct option

○ Java Program

○ C++ Program

○ Pseudo program

○ Mathematical model of computation

Click to Save Answer & Move to Next Question

MC180402031: SALEHA WAHEED

Time Left 87 sec(s)

CS502:Grand Quiz

Quiz Start Time: 06:48 AM, 27 June 2020

Question # 6 of 30 (Start time: 06:54:07 AM, 27 June 2020)   Total Marks: 1

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

Select the correct option

○ k to n where n is large

○ 1 to k where k is small

○ k to n where k is small

○ k to n where n is small

Click to Save Answer & Move to Next Question

Question # 7 of 30 (Start time: 06:55:26 AM, 27 June 2020)   Total Marks: 1

Boolean operation is a _____ operation on an idealized
RAM model of computation.

Select the correct option

○ Starting

○ Basic

○ Advance

○ Normal

Click to Save Answer & Move to Next Question