

CS502 QUIZ LEC 15-21

“ When prayers go up blessings come down ”

Remember us in your Prayers Plz

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Quiz

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MC190201891: SHAFIQIT ALI

Time Left: 87 sec(s)

CS502-Quiz No 01

Quiz Start Time: 07:54 PM, 20 July 2020

Question # 1 of 10 (Start time: 07:54:19 PM, 20 July 2020)

Total Marks: 1

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

Select the correct option

☐

Subtracting, Two

☐

Adding, Three

☒

Adding, Two☐

Click to Save Answer & Move to Next Question

6.1 Fibonacci Sequence

Suppose we put a pair of rabbits in a place surrounded on all sides by a wall. How many pairs of rabbits can be produced from that pair in a year if it is supposed that every month each pair begets a new pair which from the second month on becomes productive? Resulting sequence is 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, ... where each number is the sum of the two preceding numbers.

This problem was posed by Leonardo Pisano, better known by his nickname Fibonacci (son of Bonacci, born 1170, died 1250). This problem and many others were in posed in his book *Liber abaci*, published in 1202. The book was based on the arithmetic and algebra that Fibonacci had accumulated during his travels. The book, which went on to be widely copied and imitated, introduced the Hindu-Arabic place-valued decimal system and the use of Arabic numerals into Europe. The rabbits problem in the third section of *Liber abaci* led to the introduction of the Fibonacci numbers and the Fibonacci sequence for which Fibonacci is best remembered today.

This sequence, in which each number is the sum of the two preceding numbers, has proved extremely fruitful and appears in many different areas of mathematics and science. The *Fibonacci Quarterly* is a modern journal devoted to studying mathematics related to this sequence. The Fibonacci numbers F_n are defined as follows:

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MC180403327: SHEIKH ADIL QURESHI

Time Left 89 sec(s)

CS502:Quiz No 01

Quiz Start Time: 07:45 PM, 20 July 2020

Question # 7 of 10 (Start time: 07:49:59 PM, 20 July 2020)

Total Marks: 1

Selection sort is not an in-place sorting algorithm.

Select the correct option

☐ True

☐ False

Click to Save Answer & Move to Next Question

Name	<u>Inplace</u> / not	Stable / not
Bubble	Inplace	Stable
Insertion	Inplace	Stable
Heap	<u>Inplace</u>	Not Stable
Selection	<u>Inplace</u>	Not Stable
Quick	<u>Inplace</u>	Not Stable
Merge	Not <u>Inplace</u>	Stable

MC180202585: MUHAMMAD ILYAS

Time Left 90 sec(s)

CS502:Quiz No 01

Quiz Start Time: 06:31 PM, 20 July 2020

Question # 9 of 10 (Start time: 06:41:05 PM, 20 July 2020)

Total Marks: 1

An in-place sorting algorithm is one that _____ uses additional array for storage.

Select the correct option

☐	Always	
☐	Permanently	
☒	Does not	
☐	Sometime	

4.4 In-place, Stable Sorting

An *in-place* sorting algorithm is one that uses no additional array for storage. A sorting algorithm is *stable* if duplicate elements remain in the same relative position after sorting.

Click to Save Answer & Move to Next Question

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MC180202585: MUHAMMAD ILYAS

CS502:Quiz No 01

Time Left 90 sec(s)

Quiz Start Time: 06:31 PM, 20 July 2020

Question # 2 of 10 (Start time: 06:32:33 PM, 20 July 2020) Total Marks: 1

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

Select the correct option

☐

Greedy

☐

Dynamic Programming☐☐

Click to Save Answer & Move to Next Question

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6.3.3 Edit Distance: Dynamic Programming Algorithm

Suppose we have an m -character string A and an n -character string B . Define $E(i, j)$ to be the edit distance between the first i characters of A and the first j characters of B . For example,

$\overbrace{\hspace{1.5cm}}^i$												
A	L	G	O	R		I	T	H		M		
A	L	-	T	R		U	I	S		T	I	C
$\underbrace{\hspace{1.5cm}}_i$												

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BC170402478: UMAIRA AKBAR

Time Left 89 sec(s)

CS502:Quiz No 01

Quiz Start Time: 06:18 PM, 20 July 2020

Question # 3 of 10 (Start time: 06:20:30 PM, 20 July 2020)

Total Marks: 1

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

Select the correct option

☐

$\Theta(n)$

☐

$\Theta(1)$

☒

$\Theta(n^2)$

☐

$\Theta(n \log n)$

Click to Save Answer & Move to Next Question

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6.3.4 Analysis of DP Edit Distance

There are $\Theta(n^2)$ entries in the matrix. Each entry $E(i, j)$ takes $\Theta(1)$ time to compute. The total running time is $\Theta(n^2)$.

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BC170402478: UMAIRA AKBAR

Time Left 90 sec(s)

CS502:Quiz No 01

Quiz Start Time: 06:18 PM, 20 July 2020

Question # 1 of 10 (Start time: 06:18:47 PM, 20 July 2020)

Total Marks: 1

In _____ Knapsack Problem, limitation is that an item can either be put in the bag or not. Fractional items are not allowed.

Select the correct option

☐ 0

☐ 1

☒ 0/1

☐ Fractional

Click to Save Answer & Move to Next Question

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6.5 0/1 Knapsack Problem

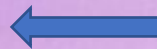
A thief goes into a jewelry store to steal jewelry items. He has a knapsack (a bag) that he would like to fill up. The bag has a limit on the total weight of the objects placed in it. If the total weight exceeds the limit, the bag would tear open. The value of the jewelry items varies for cheap to expensive. The thief's goal is to put items in the bag such that the value of the items is maximized and the weight of the items does not exceed the weight limit of the bag. Another limitation is that an item can either be **put in** the bag or not - fractional items are not allowed. The problem is: what jewelry should the thief choose that satisfy the constraints?

Question # 10 of 10 (Start time: 05:08:31 PM, 20 July 2020)

The only way to convert a string of i characters into the empty string is with i deletions, represented as _____.

Select the correct option

- | | |
|-----------------------|---------------|
| ☐ | $E(0, j) = j$ |
| ☐ | $E(i, j) = i$ |
| ☐ | $E(0, i) = j$ |
| ☐ | $E(i, 0) = i$ |



- The only way to convert an empty string into a string of j characters is by doing j insertions. Thus

$$E(0, j) = j$$

- The only way to convert a string of i characters into the empty string is with i deletions:

$$E(i, 0) = i$$

Question # 10 of 10 (Start time: 04:42:04 PM, 20 July 2020)

Time complexity of Dynamic Programming based algorithm for computing the minimum cost of Chain Matrix Multiplication is _____.

Select the correct option

- ☐ $\log n$
- ☐ n
- ☐ n^2 (n square)
- ☒ n^3 (n cube)

Here is the dynamic programming based algorithm for computing the **minimum cost** of chain matrix multiplication.

```
MATRIX-CHAIN(p, N)
1  for i = 1, N
2  do m[i, i] ← 0
3  for L = 2, N
4  do
5    for i = 1, n - L + 1
6    do j ← i + L - 1
7      m[i, j] ← ∞
8      for k = 1, j - 1
9      do t ← m[i, k] + m[k + 1, j] + pi-1 · pk · pj
10     if (t < m[i, j])
11     then m[i, j] ← t; s[i, j] ← k
```

Analysis: There are three nested loops. Each loop executes a maximum n times. **Total time is thus $\Theta(n^3)$.**

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

Select the correct option

☐ Array

☒ Table

☐ Variable

☐ class

We will **store the** solutions to the subproblem in a table and build the table bottom-up (why)? For $1 \leq i \leq j \leq n$, let $m[i, j]$ denote the minimum number of multiplications needed to compute $A_{i..j}$. The optimum can be described by the following recursive formulation.

Question # 6 of 10 (Start time: 04:39:17 PM, 20 July 2020)

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

Select the correct option

☐

Selective

☐

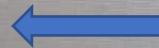
Optimum

☐

Iterative

☒

Recursive



We can use the optimal **substructure** property to devise a recursive formulation of the edit distance problem. There are a couple of obvious base cases:

- The only way to convert an empty string into a string of j characters is by doing j insertions. Thus

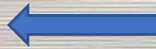
$$E(0, j) = j$$

Question # 8 of 10 (Start time: 04:13:33 PM, 20 July 2020)

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

Select the correct option

- | | |
|-----------------------|-------|
| ☐ | One |
| ☐ | Two |
| ☐ | Three |
| ☐ | All |



5.3 Radix Sort

The main shortcoming of counting sort is that it is useful for small integers, i.e., $1..k$ where k is small. If k were a million or more, the size of the rank array would also be a million. Radix sort provides a nice work around this limitation by sorting numbers one **digit** at a time.

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MC180403336: ATIQA SHAFIQUE
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CS502-Quiz No 01
Quiz Start Time: 01:14 PM, 20 July 2020

Question # 4 of 10 (Start time: 01:16:33 PM, 20 July 2020)
Total Marks: 1

Quicksort is a/an _____ and _____ sorting algorithm.

Select the correct option

☐ Not in-place, not stable one

☐ In-place, not stable one

☐ In-place, stable one

☐ Not in-place, stable one

Click to Save Answer & Move to Next Question

Name	<u>Inplace</u> / not	Stable / not
Bubble	Inplace	Stable
Insertion	Inplace	Stable
Heap	<u>Inplace</u>	Not Stable
Selection	<u>Inplace</u>	Not Stable
Quick	<u>Inplace</u>	Not Stable
Merge	Not <u>Inplace</u>	Stable

MC180403336: ATIQA SHAFIQUE

Time Left 88 sec

CS502:Quiz No 01

Quiz Start Time: 01:14 PM, 20 July 2020

Question # 5 of 10 (Start time: 01:17:14 PM, 20 July 2020)

Total Marks: 1

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

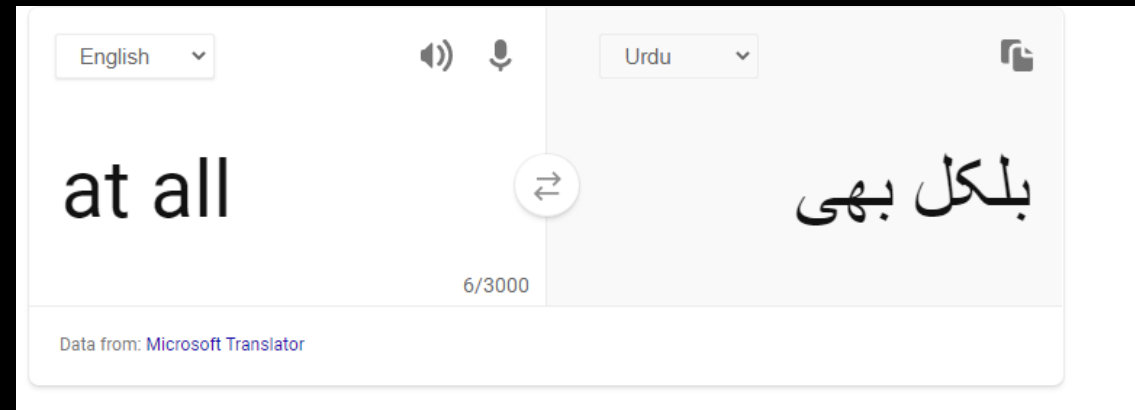
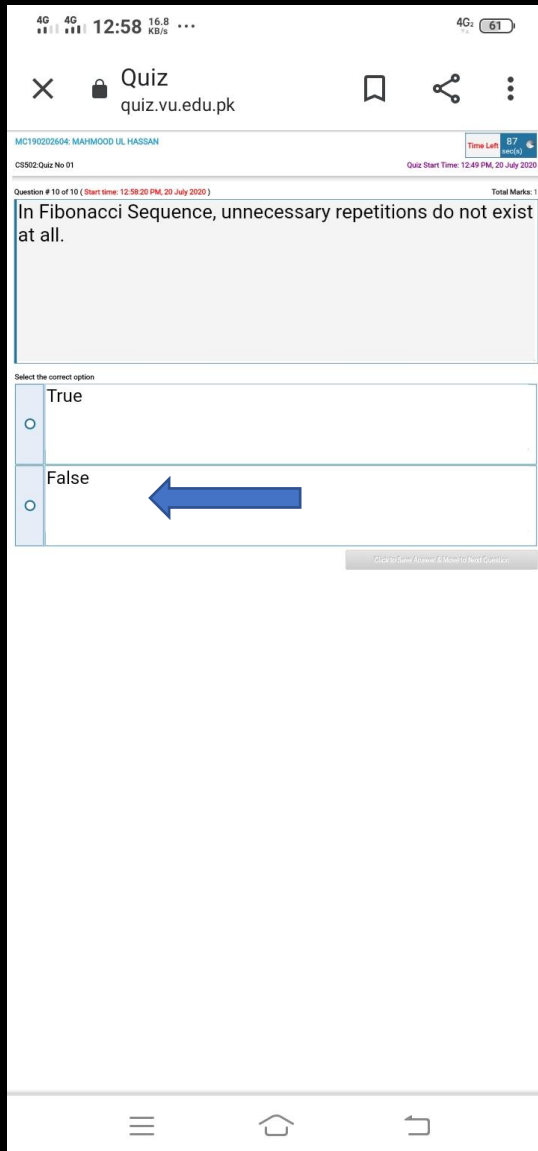
Select the correct option

☐

18☐☐☐

Click to Save Answer & Move to Next Question

$$\begin{matrix} X & , & Y & , & Z \\ 1 \times 2 & , & 2 \times 3 & , & 3 \times 4 \end{matrix}$$
$$(XY)Z = (1.2.3) + (1.3.4) = 18$$



We can avoid this unnecessary repetitions by writing down the results of recursive calls and looking them up again if we need them later. This process is called **memoization**. Here is the algorithm with **memoization**.

4G 4G 1:14 27

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MC190203908: SHAKEEL AHMAD Time Left: 89 seconds

CS502 Quiz No 91 Quiz Start Time: 01:14 PM, 20 July 2020

Question # 1 of 10 (Start time: 01:14:17 PM, 20 July 2020) Total Marks: 1

It is not a Fibonacci Sequence.
1,1,1,2,3,5,8,13,21,34,55,.....

Select the correct option

☐ True

☒ False

2.18/3.54 = Answered. Marked as Correct.

6.1 Fibonacci Sequence

Suppose we put a pair of rabbits in a place surrounded on all sides by a wall. How many pairs of rabbits can be produced from that pair in a year if it is supposed that every month each pair begets a new pair which from the second month on becomes productive? Resulting sequence is 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, ... where each number is the sum of the two preceding numbers.

$$1 + 1 + 1 + 2 + 3 + 5 \dots$$

Not a sum of two preceding numbers

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MC190202604: MAHMOOD UL HASSAN Time Left: 88 sec(s)

CS602 Quiz No 01 Quiz Start Time: 12:49 PM, 20 July 2020

Question # 7 of 10 (Start time: 12:55:10 PM, 20 July 2020) Total Marks: 1

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

Select the correct option

☐ Not in-place, not stable one

☐ In-place, stable one

☒ In-place, not stable one

☐ Not in-place, stable one

[Click to view answer & Move to Next Question](#)

Name	<u>Inplace</u> / not	Stable / not
Bubble	Inplace	Stable
Insertion	Inplace	Stable
Heap	<u>Inplace</u>	Not Stable
Selection	<u>Inplace</u>	Not Stable
Quick	<u>Inplace</u>	Not Stable
Merge	Not <u>Inplace</u>	Stable

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MC180403336: ATIQA SHAFIQUE
Time Left: 88 sec(s)

CS502-Quiz No 01
Quiz Start Time: 01:14 PM, 20 July 2020

Question # 4 of 10 (Start time: 01:16:33 PM, 20 July 2020)
Total Marks: 1

Quicksort is a/an _____ and _____ sorting algorithm.

Select the correct option

☐ Not in-place, not stable one

☐ In-place, not stable one

☐ In-place, stable one

☐ Not in-place, stable one

[Go to Correct Answer & Move to Next Question](#)

Name	<u>Inplace</u> / not	Stable / not
Bubble	Inplace	Stable
Insertion	Inplace	Stable
Heap	<u>Inplace</u>	Not Stable
Selection	<u>Inplace</u>	Not Stable
Quick	<u>Inplace</u>	Not Stable
Merge	Not <u>Inplace</u>	Stable

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MC190203908: SHAKEEL AHMAD Time Left: 87 seconds

CS502 Quiz No 01 Quiz Start Time: 01:14 PM, 20 July 2020

Question # 3 of 10 (Start time: 01:15:52 PM, 20 July 2020) Total Marks: 1

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

Select the correct option

- ☐ Always
- ☒ Not
- ☐ Sometimes
- ☐ Sometimes not

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It is **not possible to sort** faster than $\Omega(n \log n)$ time assuming that the **algorithm** is **based** on making 2-way **comparisons**. The argument was **based** on showing that any **comparison-based sorting** could be represented as a decision tree, the decision tree must have at least $n!$

4G 4G 1:18 27

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MC190202908: SHAKEEL AHMAD Time Left: 54
CS502 Quiz No 91 Quiz Start Time: 01:14 PM, 20 July 2020

Question # 6 of 10 (Start time: 01:18:36 PM, 20 July 2020) Total Marks: 1

Identify the TRUE statement.

Select the correct option

- ☐ The Knapsack problem does not belong to the domain of optimization problems.
- ☒ The Knapsack problem belongs to the domain of optimization problems. ←
- ☐ The Knapsack problem can not be solved by using dynamic programming.
- ☐ The Knapsack problem is optimally solved by using brute force algorithm.

Click on the Answer & Report a Problem



Item i	Weight w_i	Value v_i
1	2	3
2	3	4
3	4	5
4	5	8
5	9	10

Figure 6.3: Knapsack can hold $W = 20$
The knapsack problem belongs to the domain of optimization problems. Mathematically, the problem is

4G 4G 1:21 26

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MC19020790R: SHAKEEL AHMAD
Time Left: 53
CS502 Quiz No 01
Quiz Start Time: 01:14 PM, 20 July 2020

Question # 9 of 10 (Start time: 01:20:57 PM, 20 July 2020) Total Marks: 1

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

- ☐ non overlapping
- ☒ Overlapping
- ☐ Over costing
- ☐ Optimized

← Back to Quiz & Go to Next Question

An example is that a number of lectures are to be given in a single lecture hall. The start and end times have be set up in advance. The lectures are to be scheduled. There is only one resource (e.g., lecture hall) Some start and finish times may **overlap**. Therefore, not all requests can be honored. We say that two activities a_i and a_j are non-interfering if their start-finish intervals do not **overlap**. I.e,

Question # 3 of 10 (Start time: 01:24:06 PM, 20 July 2020)

Total Marks: 1

In Dynamic Programming, our approach is to _____

Select the correct option

- ☐ Develop the solution in a top-down fashion
- ☐ Express the problem non-recursively
- ☒ Build the solution in a bottom-up fashion
- ☐ Input several sub-problems simultaneously

6.2 Dynamic Programming

Dynamic programming is essentially recursion without repetition. Developing a dynamic programming algorithm generally involves two separate steps:

- **Formulate problem recursively.** Write down a formula for the whole problem as a simple combination of answers to smaller subproblems.
- **Build solution to recurrence from bottom up.** Write an algorithm that starts with base cases and works its way up to the final solution.

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MC180403336: ATIQA SHAFIQUE

Time Left: 88 sec

CS502-Quiz No 01

Quiz Start Time: 01:14 PM, 20 July 2020

Question 2 of 10 (Start time: 01:21:00 PM, 20 July 2020)

Total Marks: 1

Counting sort is suitable to sort the elements in range 1 to k:

Select the correct option

☐ K is large

☐ K is small

☐ K may be large or small

☐ None

Click to Save Answer & Move to Next Question

The main shortcoming of counting sort is that it is useful for small integers, i.e., $1..k$ where k is small. If

Quiz Start Time: 03:28 PM, 20 July 2020

Total Marks: 1

We can multiply two matrices A and B only when they are compatible which means:

☐	Number of columns in A must be equal to number of rows in B		
☐	Number of rows and columns do not matter		
☐	Number of columns in A must be equal to number of columns in B		
☐	Number of rows in A must be equal to number of rows in B		

[Click to Save Answer & Move to Next Question](#)

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CS502:Quiz No 01 Time Left: sec(s)
Quiz Start Time: 03:28 PM, 20 July 2020

Question # 6 of 10 (Start time: 03:35:20 PM, 20 July 2020) Total Marks: 1

Matrix multiplication is a(n) ----- operation.

Select the correct option

☐	Commutative
☒	Associative
☐	Neither commutative nor associative
☐	Commutative but not associative

Click to Save Answer & Move to Next Question

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There is considerable savings achieved even for this simple example. In general, however, in what order should we multiply a series of matrices $A_1 A_2 \dots A_n$. Matrix multiplication is an **associative** but not commutative operation. We are free to add parenthesis the above multiplication but the order of matrices can not be changed. The *Chain Matrix Multiplication Problem* is stated as follows:

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CS502:Quiz No 01Quiz Start Time: 03:28 PM, 20 July 2020

Question # 7 of 10 (Start time: 03:36:47 PM, 20 July 2020)Total Marks: 1

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

☐Minimized

☐Decreased

☒Maximized

☐None of the given options

Click to Save Answer & Move to Next Question

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6.5 0/1 Knapsack Problem

A thief goes into a jewelry store to steal jewelry items. He has a knapsack (a bag) that he would like to fill up. The bag has a limit on the total weight of the objects placed in it. If the total weight exceeds the limit, the bag would tear open. The value of the jewelry items varies for cheap to expensive. The thief's goal is to put items in the bag such that the value of the items is **maximized** and the weight of the items does not exceed the weight limit of the bag. Another limitation is that an item can either be put in the bag or not - fractional items are not allowed. The problem is: what jewelry should the thief choose that satisfy the constraints?

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CS502:Quiz No 01Quiz Start Time: 03:28 PM, 20 July 2020

Question # 8 of 10 (Start time: 03:38:14 PM, 20 July 2020)Total Marks: 1

An in-place sorting algorithm is one that _____ uses additional array for storage.

Select the correct option

☐ Always

☐ Permanently

☒ Does not

☐ Sometime

Click to Save Answer & Move to Next Question

4.4 In-place, Stable Sorting

An *in-place* sorting algorithm **is one that** uses no additional array for storage. A sorting algorithm is *stable* if duplicate elements remain in the same relative position after sorting.

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4G 4G 1:14 27

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MC190203908: SHARIEL AHMAD Time Left: 87
CS502 Quiz No 01 Quiz Start Time: 01:14 PM, 20 July 2020

Question # 2 of 10 (Start time: 01:14:49 PM, 20 July 2020) Total Marks: 1

Memoization is a part of Dynamic Programming strategy.

Select the correct option

☒ True

☐ False

Go back to the question & load it next question

memoization is a part of dynamic programming

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Memoization is a common **strategy** for **dynamic programming** problems, which are problems where the solution is composed of solutions to the same problem with smaller inputs (as with the Fibonacci problem, above).

Quiz Start Time: 03:28 PM, 20 July 2020

Total Marks: 1

If matrix A of dimension 2×4 is multiply with matrix B of dimension 4×3 , then the dimension of resultant matrix is:

☐	2 x 4	
☐	4 x 3	
☐	3 x 4	
☐	2 x 3	← Dimension of Resultant = No of Row of A x No of Col of B

Dimension of Resultant = No of Row of A x No of Col of B

[Click to Save Answer & Move to Next Question](#)

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MARK AS READ

Question # 7 of 10 (Start time: 01:18:40 PM, 20 July 2020)

Total Marks: 1

When matrix A of 5×3 is multiply with matrix B of 3×4 then the number of multiplication required is:

Select the correct option

- | | |
|-----------------------|----|
| ☐ | 15 |
| ☐ | 12 |
| ☐ | 36 |
| ☐ | 60 |



[Click to Save Answer & Move to Next Question](#)

MC180202585: MUHAMMAD ILYAS

Time Left 89 sec(s)

CS502:Quiz No 01

Quiz Start Time: 06:31 PM, 20 July 2020

Question # 5 of 10 (Start time: 06:36:37 PM, 20 July 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

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

Select the correct option

- | | |
|-----------------------|-------|
| ☐ | True |
| ☐ | False |



CS502:Quiz No 01

Quiz Start Time: 03:28 PM, 20 July 2020

Question # 9 of 10 (Start time: 03:39:17 PM, 20 July 2020)

Total Marks: 1

Dynamic Programming is a problem-solving approach in which _____

Select the correct option

Problem is solved in Zero time

Solution is developed only at final stage

Both are correct

Both are incorrect

[Click to Save Answer & Move to Next Question](#)

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Remember us in your Prayers Plz