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Quiz - Dynamic Programming

This is a preview of the draft version of the quiz

This is an online quiz. There will be no time limit to the quiz. You can attempt the quiz twice and the best of the scores will be retained. This is open notes and open internet quiz but refrain from discussing with anybody during the exam.

Note that this test cannot be taken past the due date for any credit.

This quiz is worth 10 points.
Due Friday at Midnight (PST).

You can view the correct answers here post due date.

Quiz Type	Graded Quiz
Points	10
Assignment Group	Quizzes
Shuffle Answers	Yes
Time Limit	No Time Limit
Multiple Attempts	Yes
Score to Keep	Highest
Attempts	2
View Responses	Always
Show Correct Answers	After Apr 17 at 12am
One Question at a Time	No

Due	For	Available from	Until
Apr 16	Everyone	-	Apr 16 at 11:59pm

Preview

Score for this attempt: **0** out of 10
Submitted Apr 19 at 9:17am
This attempt took less than 1 minute.

Unanswered

Question 1

0 / 2 pts

What are the major required aspects in a problem in order to apply Dynamic Programming Technique?

- Be able to solve using top down and bottom up approach
- Base case to stop recurrence

orrect Answer

- Optimal Substructure and Overlapping subproblems
- Whether a problem can be divided or not

wered

Question 2

0 / 1 pts

In which of the following approaches we start with the base case and proceed to solve the bigger subproblems?

- Top-Down Approach
- None of the options

orrect Answer

- Bottom-up Approach
- Both

Unanswered

Question 3

0 / 1 pts

In dynamic programming, the technique of storing the previously calculated values is called

orrect Answer

- Memoization
- Bottom-up approach
- Top-down approach
- Cache

Unanswered

Question 4

0 / 1 pts

The difference between Divide and Conquer Approach and Dynamic Programming is

- Use of recurrence formula
- The base case
- The way we divide the sub-problems

orrect Answer

- Whether the sub-problems overlap or not

Unanswered

Question 5

0 / 2 pts

A binary search algorithm searches for a target value within a sorted array. Binary search compares the target value to the middle element of the array; if they are unequal, the half in which the target cannot lie is eliminated and the search continues on the remaining half until the target value is found or until a search can no longer be performed. This problem can be solved using which of the techniques?

- Any of the two techniques

orrect Answer

- Divide and Conquer
- Dynamic Programming
- None of the options

Unanswered

Question 6

0 / 2 pts

In the Longest Common Subsequence problem assume we are comparing two strings of lengths m and n. In the bottom-up approach the solution we build a 2-Dimensional array called Cache[m][n]. The final solution was obtained by accessing which element of the cache?

orrect Answer

- The element in the bottom right corner of the cache[m][n]
- The last but one element in the cache[m][n]
- The first element in the cache[m][n]
- Any element in the Cache[m][n]

Unanswered

Question 7

0 / 1 pts

In [Select] we start with the base case and build the solution starting from base case. In [Select] we start solving the the bigger problem proceed towards the base case.

Answer 1:

ou Answered (You left this blank)

orrect Answer bottom-up approach

Answer 2:

ou Answered (You left this blank)

orrect Answer top-down approach

Quiz Score: **0** out of 10