

Preview





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.

Jnanswered	Question 1	0 / 2 pts
	What are the major required aspects in a problem in order to ap Dynamic Programming Technique?	ply
	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	
L		
wered	Question 2	0 / 1 pts
	In which of the following approaches we start with the base case proceed to solve the bigger subproblems?	e and

proceed to solve the bigger subproblems?

Top-Down Approach

None of the options

Bottom-up Approach

Both

Jnanswered

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

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 Whether the sub-problems overlap or not

Jnanswered

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?

4/19/2021	Quiz - Dynamic Flogramming. ANALTSIS OF ALGORITHMS (CS_323_400_32021)
	Any of the two techniques
orrect Answer	O Divide and Conquer
	O Dynamic Programming
	None of the options

Jnanswered

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]

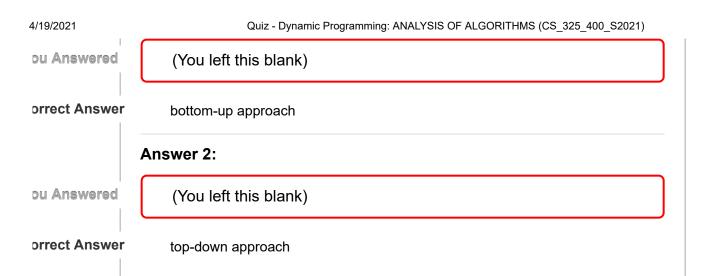
Jnanswered

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:



Quiz Score: 0 out of 10

