Quiz 1

Due Apr 5 at 11:59pmPoints 8Questions 8Available Mar 29 at 11:59pm - Apr 5 at 11:59pm 7 daysTime Limit 15 Minutes

This quiz was locked Apr 5 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	3 minutes	8 out of 8

Score for this quiz: **8** out of 8 Submitted Apr 5 at 10:26pm This attempt took 3 minutes.

	Question 1 1 / 1 pt	S
	Which of the following growth-rate functions grows the fastest in value?	
	○ log n	
	1	
Correct!		
	o n	

Question 2 1 / 1 pts

Which of the following growth-rate functions indicates a problem whose time requirement is independent of the size of the problem?

	· ,
	O n
	○ n^3
	O log (n^2)
Correct!	1

	Question 3	1 / 1 pts
	An algorithm's execution time is related to the number ofrequires.	_ it
	test data sets	
Correct!	operations	
	parameters	
	O data fields	

	Question 4	1 / 1 pts		
	Which of the following can be used to compare two algorithms?			
	omputers on which programs which implement the two algorithms a	re run		
Correct!	growth rates of the two algorithms			
	implementations of the two algorithms			

test data used to test programs which implement the two algorithms

	Question 5	1 / 1 pts
Correct!	Algorithm efficiency is typically a concern for	
	small problems only	
	large problems only	
	oproblems of all sizes	
	medium sized problems only	

	Question 6 1 / 1 pts
	The notation defines an upper bound of an algorithm, it bounds a function only from above.
Correct!	Big O
	Big Theta
	○ Small Omega
	O Big Omega

Question 7 1 / 1 pts

	The order of Insertion Sort average case is:
	O(n)
	○ Theta (n log n)
Correct!	Theta (n^2)
	O(n log n)

	Question 8	1 / 1 pts
Correct!	The Merge Sort uses algorithm technique:	
	○ Greedy	
	Divide and Conquer	
	Backtracking	
	O Dynamic Programming	

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