## Quiz 1

**Due** Jan 15 at 11:59pm

Points 8

**Questions** 8

**Available** Jan 5 at 11:59pm - Jan 15 at 11:59pm 10 days

Time Limit None

**Allowed Attempts** 2

## Take the Quiz Again

## **Attempt History**

	Attempt	Time	Score
LATEST	Attempt 1	39 minutes	8 out of 8

## (!) Answers will be shown after your last attempt

Score for this attempt: **8** out of 8 Submitted Jan 15 at 3:36pm This attempt took 39 minutes.

Question 1	1 / 1 pts
Which of the following growth-rate functions grows the fastest in	value?
0 1	
○ n	
n^2	
○ log n	

Question 2	1 / 1 pts

ılle	ement is independent of the size of the problem?
•	1
	n
	n^3
	log (n^2)

Question 3	1 / 1 pts
An algorithm's execution time is related to the number of	it requires.
parameters	
<ul><li>test data sets</li></ul>	
data fields	
operations	

Question 4	1 / 1 pts
Which of the following can be used to compare two algorithms?	
growth rates of the two algorithms	
implementations of the two algorithms	
test data used to test programs which implement the two algorithm	S

ocomputers on which programs which implement the two algorithms are run

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

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

Question 7	1 / 1 pts
The order of Insertion Sort average case is:	

O(n)		
O(n log n)		
Theta (n log n)		
Theta (n^2)		

Question 8	1 / 1 pts
The Merge Sort uses algorithm technique:	
Greedy	
Dynamic Programming	
Divide and Conquer	
<ul> <li>Backtracking</li> </ul>	

Quiz Score: 8 out of 8