Quiz Submissions - Quicksort and Priority Queues Reading Quiz

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Retaken Attempt 2

Written: Mar 20, 2022 1:00 AM - Mar 20, 2022 1:00 AM

Submission View

Your quiz has been submitted successfully.

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Question 1 Correct on previous attempt(s)

2/2 points

What is the tilde approximation for the average number of comparisons done by quicksort?

N lg N

/(•)

2N lg N

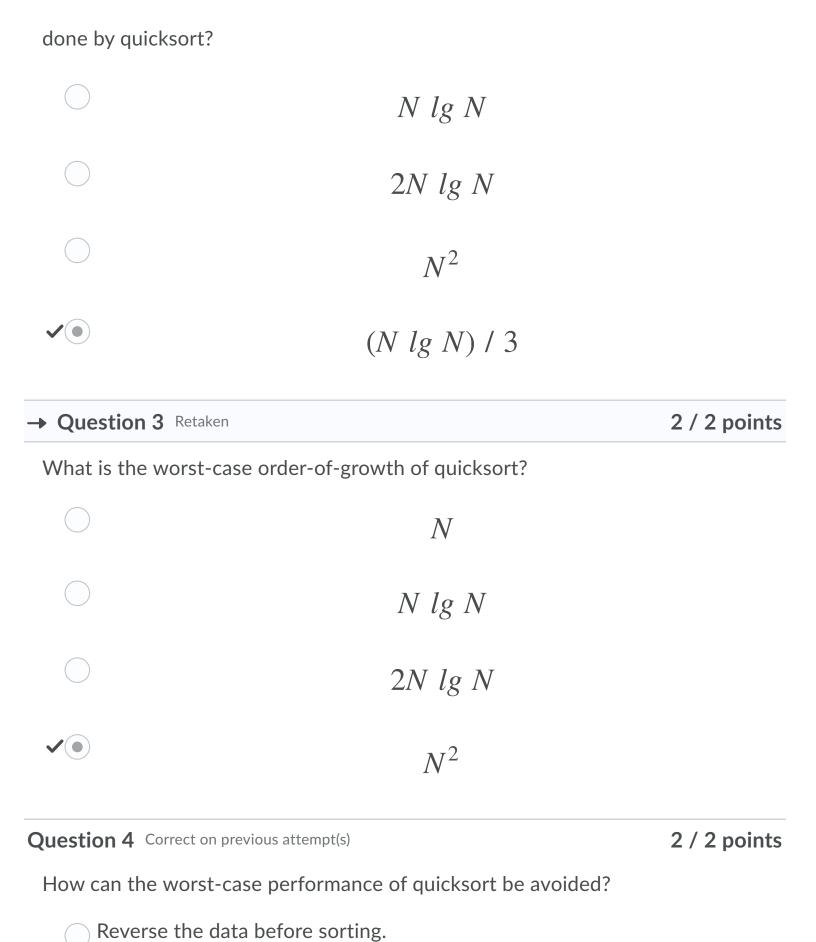
 N^2

(N lg N) / 3

Question 2 Correct on previous attempt(s)

2/2 points

What is the tilde approximation for the average number of array element swaps



✓ ■ Randomize the data before sorting.

Swap eve	ery other array element before sorting.	
Question 5 Corre	ect on previous attempt(s)	2 / 2 points
Using a heap to insert() ope	o implement a priority queue, what is the orderation?	der of growth for the
	1	
✓.	lg N	
	N	
	N lg N	
	N^2	
Question 6 Corre	ect on previous attempt(s)	2 / 2 points
Using a heap to delMax() ope	o implement a priority queue, what is the orderation?	der of growth for the
	1	
✓ •	lg N	
	N	
	N lg N	

Question 7 Correct on previous attempt(s)

2/2 points

Using a heap to implement a priority queue, what is the order of growth for the max () operation?

~

1

lg N

 \bigcirc

N

N lg N

 N^2

Attempt Score: 14 / 14 - 100 %

Overall Grade (highest attempt): 14 / 14 - 100 %

Done