Quiz 14

Due Jun 1 at 11:59pm **Points** 13 **Questions** 13 **Available** until Jun 1 at 11:59pm **Time Limit** None

Instructions

Answer the following questions.

This quiz is no longer available as the course has been concluded.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	15 minutes	12 out of 13

Score for this quiz: 12 out of 13

Submitted Jun 1 at 6:35pm

This attempt took 15 minutes.

	Question 1	1 / 1 pts
	Shell sort uses selection sort to sort interleaved lists.	
	O True	
Correct!	False	

	Question 2	1 / 1 pts
	In shell sort, the gap value shows the distance between two consecutive items within the same interleaved list.	
orrect!	True	
	O False	

1 / 1 pts **Question 3** Consider the following numbers within a list in order: 4, 6, 1, 3, 2, 5. If gap value is 3, what would be the content of interleaved lists (before sort)? List #1: 4, 6 List #2: 1, 3 List #3: 2, 5 List #1: 4, 6, 1 List #2: 3, 2, 5 List #1: 4, 3 List #2: 6, 2 List #3: 1, 5

Correct!

List #1: 4, 1, 2

List #2: 6, 3, 5

Question 4

1 / 1 pts

Consider the following numbers within a list in order: 4, 6, 1, 3, 2, 5.

If gap value is 3, what would be the content of the list after sorting all interleaved lists?

- 0 1, 4, 6, 2, 3, 5
- 0 4, 6, 1, 3, 2, 5
- 0 1, 3, 2, 5, 4, 6

Correct!

3, 2, 1, 4, 6, 5

Question 5

1 / 1 pts

In shell sort, if gap value is 1, then effectively insertion sort is executed on the whole list.

Correct!

True

False

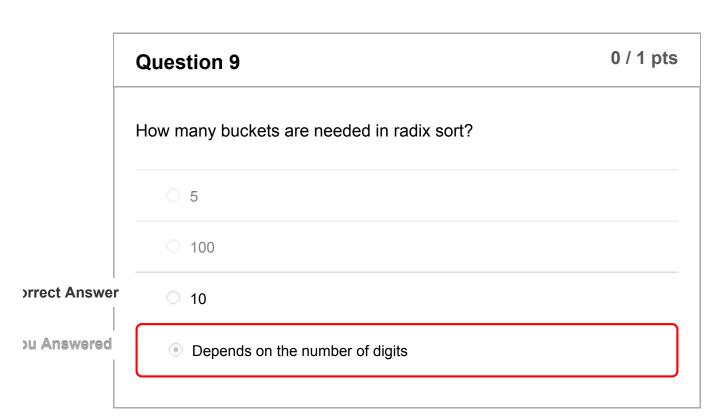
	Question 6	1 / 1 pts
	Radix sort is only applicable to sorting integer numbers.	
Correct!	True	
	O False	
	Question 7	1 / 1 pts
	Numbers 41 and 6748 can sit in the same bucket.	
Correct!	True	
	O False	
	Question 8	1 / 1 pts

0 8

0

What is 6748 bucket, using 100's digit?

	O 4	
Correct!	7	



Consider the following list of numbers in order: 85, 63, 77, 93, 51. What would be the content of the list, after the first iteration of radix sort? 51, 63, 77, 85, 93 51, 63, 93, 85, 77

Correct!

93, 51, 63, 85, 77	
77, 63, 93, 51, 85	

Question 11 Consider the following list of numbers in order: 85, 63, 77, 93, 51. How many iterations radix sort follow, before sorting the numbers? 2 10 3 93

	Question 12 1 / 1 pts)
	One major difference between radix sort and other sorting algorithms is that radix sort does not use comparison.	
Correct!	True	-
	O False	

	Question 13	1 / 1 pts
	Which one of the following is the fastest sorting algorithm (corworst case runtime)?	mparing
	Insertion sort	
	O Quick sort	
	O Merge sort	
Correct!	Radix sort	

Quiz Score: 12 out of 13