Quiz 13

Due May 31 at 11:59pm **Points** 8 **Questions** 8
Available until May 31 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	26 minutes	7 out of 8

Score for this quiz: **7** out of 8
Submitted May 31 at 6:35pm
This attempt took 26 minutes.

Question 1 — 0 / 1 pts

In each iteration of selection sort, the smallest value is identified within the unsorted component of the list and then moved to the sorted component of the list.

orrect Answer — True

ou Answered — False

Question 2

1 / 1 pts

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

After the first iteration of selection sort, which two items are swapped?

- 6 and 3
- 1 and 2
- 4 and 3
- 4 and 1

Correct!

Question 3

1 / 1 pts

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

After the second iteration of selection sort, which two items are swapped?

- 1 and 4
- 3 and 4

- 6 and 3

Correct!

- 6 and 2

Question 4

1 / 1 pts

What is the time complexity of selection sort, if the input list is of size N?

Correct!

- $O(N^2)$
- O(N log N)
- O(N)

Question 5

1 / 1 pts

In each iteration of insertion sort, an item from unsorted component of the list is inserted in its correct place within the sorted component of the list.

Correct!

- True
- False

Question 6

1 / 1 pts

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

After the first iteration of insertion sort, what would be the list content?

Correct!

- (•) 4, 6, 1, 3, 2
- ( ) 6, 4, 1, 3, 2
- ( ) 1, 6, 4, 3 , 2
- ( ) 4, 1, 6, 3, 2

Question 7

1 / 1 pts

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

After the second iteration of insertion sort, what would be the list content?

Correct!

- (•) 1, 4, 6, 3, 2

- 1, 6, 4, 3, 2
- 1, 2, 6, 4, 3
- 1, 2, 4, 6, 3

Question 8

1 / 1 pts

What is the time complexity of insertion sort, if the input list is of size N?

- O(N log N)

Correct!

- $O(N^2)$
- O(N)
- No answer text provided.

Quiz Score: **7** out of 8