Quiz 12

Due May 30 at 11:59pm **Points** 7 **Questions** 7
Available until May 30 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	20 minutes	6 out of 7

Score for this quiz: **6** out of 7
Submitted May 30 at 11:44am
This attempt took 20 minutes.

Question 1

0 / 1 pts

Assume that linear search on a list of 10 integers traverses the list until its 5th element. What can you infer?

ou Answered — Linear search is not working properly.

rrect Answer — The search key is found in the 5th element of the list.

Linear search key is number 5.

Question 2

1 / 1 pts

Assume that linear search on a list of 10 integers traverses the list to the end (checks all 10 elements) in order to find search key 6, and at the end returns -1. What can you infer?

Seach key resides in the element of the list.

Correct!

The search key is not found in the list.

Linear search is not working properly.

Question 3

1 / 1 pts

What is the time complexity of linear search, if the input list is of size N?

Correct!

O(N)

O(log N)

$O(N^2)$

Question 4

1 / 1 pts

Linear search can be used to find items in both sorted and unsorted lists.

Correct!

- (•) True
- ( ) False

Question 5

1 / 1 pts

Consider the following array of items in order: 3, 6, 7, 11, 15, 19, 22, 31.

If binary search is used to find number 6, which numbers are checked before finding 6.

- ( ) 11, 7, 3
- ( ) 11, 19

Correct!

- (•) 11
- ( ) 11, 7

Question 6

1 / 1 pts

Binary search can only be used to find items in sorted lists.

Correct!

- (•) True
- ( ) False

Question 7

1 / 1 pts

What is the time complexity of binary search, if the input array is of size N?

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

Correct!

Quiz Score: **6** out of 7