In a linear linked list, \_\_\_\_\_\_.

Selected Answer:

d. the next reference of the last node has the value null

Question 2

0.5 out of 0.5 points

Which of the following operations of the ADT list changes the list?

Selected Answer:

b. remove

Question 3

0.5 out of 0.5 points

In the ADT list, when an item is inserted into position i of the list, \_\_\_\_\_\_.

Selected Answer:

d. the position of each item that was at a position greater than i is increased by 1

Question 4

0.5 out of 0.5 points

In the ADT list, when an item is deleted from position i of the list, \_\_\_\_\_\_.

Selected Answer:

c. the position of each item that was at a position greater than i is decreased by 1

Question 5

0.5 out of 0.5 points

The specifications of an ADT’s operations indicate

Selected Answer:

c.

what the operations do

Question 6

0.5 out of 0.5 points

In the following list: John, Kate, Fred, Mark, Jon, Adam, Drew

Which element does not have a predecessor?

Selected Answer:

John

Question 7

0.5 out of 0.5 points

In the following list: John, Kate, Fred, Mark, Jon, Adam, Drew

Which element is the tail of the list?

Selected Answer:

d. Drew

Question 8

0.5 out of 0.5 points

Data structures are part of an ADT’s \_\_\_\_\_\_.

Selected Answer:

d. implementation

Question 9

0.5 out of 0.5 points

To delete a node N from a linear linked list, you will need to \_\_\_\_\_\_.

Selected Answer:

d. set the reference next in the node that precedes N to reference the node that follows N

Question 10

0.5 out of 0.5 points

An array-based implementation of an ADT list \_\_\_\_\_\_.

Selected Answer:

b. requires less memory to store an item than a reference-based implementation

Question 11

0.5 out of 0.5 points

A linked list contains components, called \_\_\_\_\_\_\_, which are linked to one another.

Selected Answer:

c. nodes

Question 12

0.5 out of 0.5 points

A(n) \_\_\_\_\_\_ is an instance of a class

Selected Answer:

b. object

Question 13

0.5 out of 0.5 points

A class contains methods and \_\_\_\_\_\_.

Selected Answer:

b. data fields

Question 14

0.5 out of 0.5 points

Encapsulation combines an ADT’s data with its operations to form a(n) \_\_\_\_\_\_.

Selected Answer:

b. object

Question 15

0 out of 0.5 points

If you attempt to use a reference variable before it is instantiated, a(n) \_\_\_\_\_\_\_\_\_\_\_\_ will be thrown.

Selected Answer:

a. InstantiationException

Question 16

0.5 out of 0.5 points

When you declare a variable that refers to an object of a given class, you are creating a(n) \_\_\_\_\_\_ to the object.

Selected Answer:

a. reference

Question 17

0.5 out of 0.5 points

Which of the following statements deletes the first node of a linear linked list that has 10 nodes?

Selected Answer:

c. head = head.getNext();

Question 18

0 out of 0.5 points

Which of the following will be true when the reference variable curr references the last node in a linear linked list?

Selected Answer:

a. curr == null

Question 19

0 out of 0.5 points

Which of the following statements is used to insert a new node, referenced by newNode, after the node that prev references in linear linked list? [Assume that the methods, setNext and getNext exist.]

Selected Answer:

b.

prev.setNext(newNode);

Question 20

0.5 out of 0.5 points

A reference variable whose sole purpose is to locate the first node in a linked lists is called \_\_\_\_\_\_\_\_

Selected Answer:

a. head

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