(!) This quiz has been regraded; your new score reflects 0 questions that were affected.

# Practice 06 Ch 18 Linked List

**Due** May 21 at 7:59pm

Points 4.1

**Questions** 41

Available Apr 16 at 12am - May 21 at 7:59pm about 1 month

Time Limit 25 Minutes

**Allowed Attempts** Unlimited

# Instructions

Practice Quizzes 06 Ch 18 Linked List

Total 4.1 points, 0.1 point each

You may take as many time as you like.

Your best score is kept on record.

Take the Quiz Again

# **Attempt History**

	Attempt	Time	Score	Regraded
LATEST	Attempt 1	10 minutes	3.93 out of 4.1	3.97 out of 4.1

(!) Correct answers are hidden.

Score for this attempt: 3.97 out of 4.1

Submitted Apr 27 at 12:05pm This attempt took 10 minutes.

# Question 1 O.1 / 0.1 pts When you create a linked list you must know in advance how many nodes the list will contain. True

• False

Question 2	0.1 / 0.1 pts
Which type of list does NOT contain a null pointer at the en	nd of the list?
backwards linked	
odoubly linked	
circular linked	
null linked	
None of these	

Question 3	0.1 / 0.1 pts
While traversing a list, a node pointer knows when it has of the list if	s reached the end
it encounters the newline character	
it encounters a null pointer	
it finds itself back at the beginning of the list	
it encounters a sentinel such as 9999	

Question 4	0.1 / 0.1 pts
The advantage a linked list has over a vector is that	
a linked list can dynamically shrink or grow and a vect	or cannot
a linked list is smaller than a vector	
a node can be inserted or removed faster from a linked list vector	than from a
data removal and insertion are more accurate with a linked vector	l list than with a
O None of these	

**Partial** 

Question 5	0.07 / 0.1 pts
Select all that apply. Variations of the linked list are	
✓ doubly linked list	
✓ frontward linked list	
✓ backward linked list	

**Question 6** 

0.1 / 0.1 pts

A is used to travel through a I	inked list and search for data.
O node	
<ul><li>pointer</li></ul>	
null pointer	
traversal operator	
None of these	
Question 7	0.1 / 0.1 pts
A list that contains pointers to the previo	us node, the next node, and a
A list that contains pointers to the previo	us node, the next node, and a
A list that contains pointers to the previonode in the third dimension is known as	us node, the next node, and a a triple linked list.
A list that contains pointers to the previonode in the third dimension is known as  True  False	us node, the next node, and a a triple linked list.
A list that contains pointers to the previous node in the third dimension is known as  True  False  Question 8	us node, the next node, and a a triple linked list.  0.1 / 0.1 pts
A list that contains pointers to the previous node in the third dimension is known as  True  False  Question 8	us node, the next node, and a a triple linked list.  0.1 / 0.1 pts
A list that contains pointers to the previous node in the third dimension is known as  True  False  Question 8  In a circular linked list, the last node points	us node, the next node, and a a triple linked list.  0.1 / 0.1 pts

None of these

Question 9	0.1 / 0.1 pts
ADT stands for	
Algorithm Dependent Template	
Algorithm Driven Template	
Abstract Data Type	
Automatic Data Type	
None of these	

Question 10	0.1 / 0.1 pts
A linked list class must take care of removing the dynamic nodes and this is done by	ically allocated
the constructor function	
the destructor function	
overriding the removal function	
overloading the memory persistence operator	
None of these	

Question 11	0.1 / 0.1 pts
Select all that apply. Which of the following is a basic list o	peration?
✓ inserting a node	
✓ deleting a node	
☐ None of these	

# 

Question 13 0.1 / 0.1 pts

A linked list can grow and shrink as a program runs.

• True			
False			

# A linked list is called "linked" because each node in the series has a pointer that points to the next node in the list. True False

Question 15	0.1 / 0.1 pts
If the head pointer points to nullptr, this indicates	
the list has been previously created and then destroyed	
the list needs to be destroyed	
there are no nodes in the list	
the list is full and cannot accept any new nodes	
None of these	

Question 16 0.1 / 0.1 pts

one: delet	e the node from memory
•	
two: remove t	the node without breaking links, then delete it from memory
three: create node	a blank node, remove the node being deleted, insert the blank
	blank node, insert the blank node before the node being
deleted, remo	ove the node being deleted, delete the blank node
None of th	

Question 17	0.1 / 0.1 pts
The process of moving through a linked list is referred to as list.	the
cruising	
• traversing	
hopping	
revising	
None of these	

Question 18	0.1 / 0.1 pts
The of a linked list points to	the first node in the list.
○ starter	
<ul><li>head</li></ul>	
○ tail	
declaration	
O None of these	
Question 19	0.1 / 0.1 pts
	nust traverse the list, deleting each
	nust traverse the list, deleting each
node, one by one.	nust traverse the list, deleting each
	nust traverse the list, deleting each
True False  Question 20	0 / 0.1 pts
o True False	0 / 0.1 pts

Incorrect

Question 21	0.1 / 0.1 pts
A linked list is a series of connected	
○ ADTs	
vectors	
algorithms	
• nodes	
O None of these	

Question 22	0.1 / 0.1 pts
To create a linked list you must first create a(n)	
header file	
function template	
exception	
• struct	
None of these	

Question 23 0.1 / 0.1 pts

0.1 / 0.1 pts
perations you can
0.1 / 0.1 pts
ppend a node to the list.
0.1 / 0.1 pts

•	allocates another node
	removes a node
	borrows a node from the compiler
	Either removes a node or borrows a node from the compiler
	None of these

## Question 27 0.1 / 0.1 pts

In an insertion or deletion routine: how many pointers are you required to create for use during the traversal process?

- two: one for the node under inspection and one for the previous node
- two: one for the node under inspection and one for the next node
- one: for the node being inserted or deleted

three: one for the node under inspection, one for the next node, and one for the following node

### Question 28 0.1 / 0.1 pts

When you delete a node from a list, you must ensure that the links in the list are not permanently broken.

True

○ False

Question 29	0.1 / 0.1 pts
A doubly linked list keeps track of the next node in the list	as well as
itself	
the head node	
the tail node	
the previous node	
None of these	

Question 30	0.1 / 0.1 pts
To build a list initially, you can use a(n) routine.	
build	
<ul><li>append</li></ul>	
constructor	
initialization	
None of these	

Question 31	0.1 / 0.1 pts
A new node cannot become the first node in the list.	
○ True	
False	

Question 32	0.1 / 0.1 pts
To append a node to a list means to	
delete a node from the beginning of the list	
O delete a node from the end of the list	
add a node to the beginning of the list	
add a node to the end of the list	
None of these	

Question 33 Original Score: 0.07 / 0.1 pts Regraded Score: 0.1 /	0.1 pts
① This question has been regraded.	
Select all that apply. A list contains pointers to the nodes it and after it.	s before

multi linked	
✓ circular linked	
singly linked	
✓ doubly linked	
Question 34	0.1 / 0.1 pts
Deleting an entire list simply requires the	use of the delete operator.
○ True	
False	
Question 35	0.1 / 0.1 pts
Question 35  The Standard Template Library (STL) pro	
The Standard Template Library (STL) pro	
The Standard Template Library (STL) pro  True	

concatenating		
opopping		
Clamping		
<ul><li>inserting</li></ul>		
None of these		

Question 37	0.1 / 0.1 pts
The last node in a linked list points to	
a null pointer	
the previous node	
the first node in the list	
onothing; the last node does not contain a pointer	
None of these	

Question 38	0.1 / 0.1 pts
A linked list can consist of structs, objects, and other ab	estract data types.
• True	
○ False	

Question 39	0.1 / 0.1 pts
To insert a new node in ascending order into a list, the list	must be
arranged in descending order	
randomly ordered	
empty	
arranged in ascending order	
None of these	

Question 40	0.1 / 0.1 pts
The list container provided by the Standard Template Librar version of a	ry is a template
singly linked list	
doubly linked list	
<ul><li>circular linked list</li></ul>	
<ul> <li>backward linked list</li> </ul>	
None of these	

Question 41 0.1 / 0.1 pts

new node must always be made the last node in the list.	
○ True	
• False	

Quiz Score: 3.97 out of 4.1