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Started on	Wednesday, 9 September 2020, 7:04 PM
State	Finished
Completed on	Wednesday, 9 September 2020, 7:07 PM
Time taken	2 mins 43 secs
Grade	**10.00** out of 10.00 (**100%**)

Question 1

Correct

Mark 1.00 out of 1.00

The number of elements in a one-dimensional [array](#) can be calculated by:

○ a. Lower bound- Upper bound +1

○ b. Lower bound + Upper bound −1

○ c. UB + LB −1

◉ d. UB −LB +1 ✔

Your answer is correct.
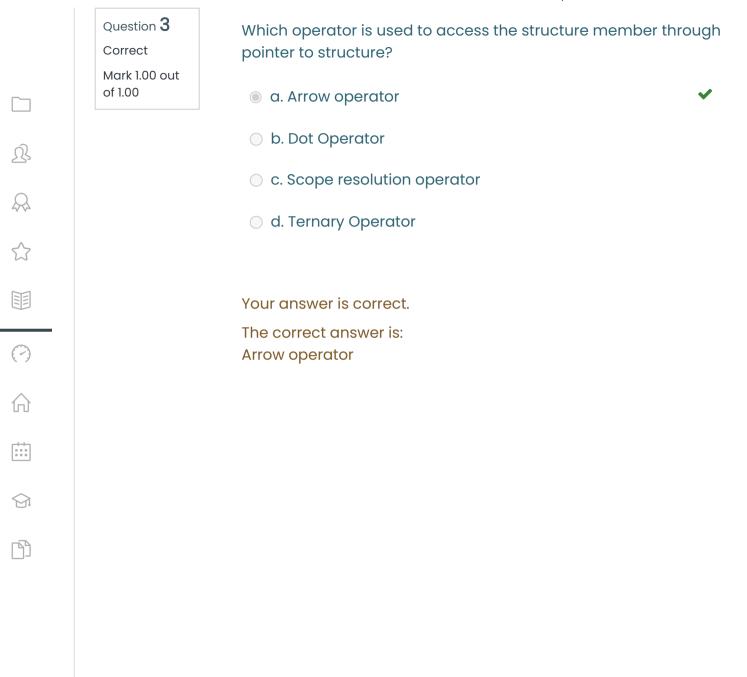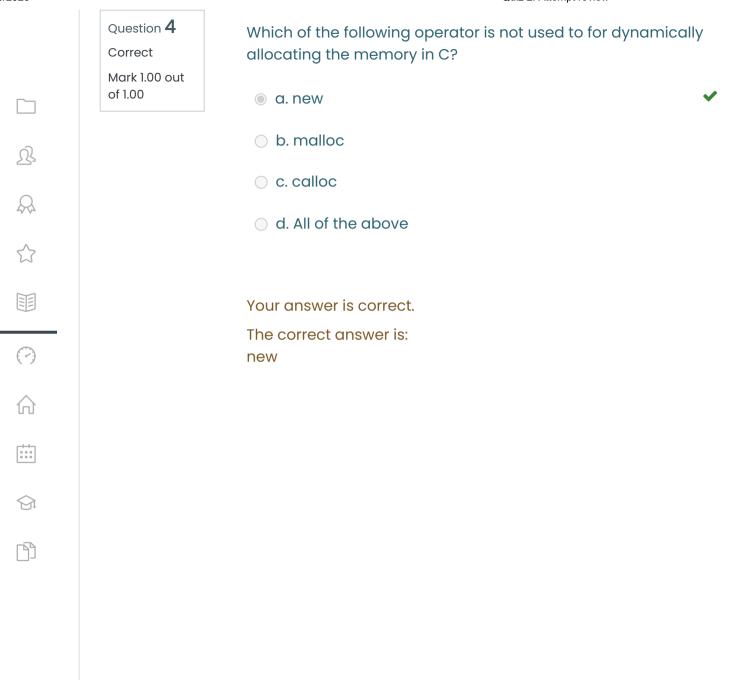
The correct answer is:
UB −LB +1

Question **2**

Correct

Mark 1.00 out
of 1.00

Which of the following c code is used to create new node?

○ a. ptr=(NODE*)malloc(sizeof(NODE)); ✔

○ b. ptr=(NODE*)malloc(NODE);

○ c. ptr=(NODE*)malloc(sizeof(NODE*));

○ d. ptr=(NODE)malloc(sizeof(NODE));

Your answer is correct.

The correct answer is:
ptr=(NODE*)malloc(sizeof(NODE));

Question **3**

Correct

Mark 1.00 out of 1.00

Which operator is used to access the structure member through pointer to structure?

○ a. Arrow operator ✔

○ b. Dot Operator

○ c. Scope resolution operator

○ d. Ternary Operator

Your answer is correct.

The correct answer is:
Arrow operator

Question 4

Correct

Mark 1.00 out of 1.00

Which of the following operator is not used to for dynamically allocating the memory in C?

○ a. new   ✔

○ b. malloc

○ c. calloc

○ d. All of the above

Your answer is correct.

The correct answer is:
new

Question 5

Correct

Mark 1.00 out of 1.00

Which of the following operator is used for dynamically deallocating the memory in C?

○ a. delete

◉ b. free ✔

○ c. destroy

○ d. void

Your answer is correct.

The correct answer is:
free

Question 6

Correct

Mark 1.00 out of 1.00

Which of the following provides two-way traversal?

- ⦿ a. Doubly Link list   ✔
- ○ b. [Singly Link list](#)
- ○ c. Circular Link list
- ○ d. None of the above

Your answer is correct.

The correct answer is:
Doubly Link list

Question 7

Correct

Mark 1.00 out of 1.00

To represent the empty linked list we use

- ○ a. Start=NULL ✔
- ○ b. PTR=NULL
- ○ c. Start->next=NULL
- ○ d. PTR->next=NULL

Your answer is correct.

The correct answer is:
Start=NULL

Question 8

Correct

Mark 1.00 out of 1.00

Which of the following is used to represent the overflow condition in a single linked list?

○ a. Start=NULL

◉ b. PTR=NULL   ✔

○ c. PTR->next=NULL

○ d. Start->next=NULL

Your answer is correct.

The correct answer is:
PTR=NULL

Question **9**

Correct

Mark 1.00 out of 1.00

In a circular linked list

○ a. Components are all linked together in some sequential manner.

⦿ b. There is no beginning and no end. ✔

○ c. Components are arranged hierarchically.

○ d. Forward and backward traversal within the list is permitted.

Your answer is correct.

The correct answer is:
There is no beginning and no end.

Question **10**

Correct

Mark 1.00 out of 1.00

What would be the asymptotic time complexity to find an element in the linked list?

- a. $O(1)$

- b. $O(n)$ ✔

- c. $O(n^2)$

- d. None

Your answer is correct.

The correct answer is: $O(n)$

PREVIOUS ACTIVITY

◄ Singly Link List

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