

DATA STRUCTURES & ALGORITHMS (BCSE2361 PP)

Question 1Not yet
answeredMarked out of
0.50

Flag question

Which of the following is the correct way of declaring an array?

Select one:

- ☒ a. `int javatpoint[10];`
☐ b. `array javatpoint[10];`
☐ c. `javatpoint{20};`
☐ d. `int javatpoint;`

[Clear my choice](#)**Question 2**Not yet
answeredMarked out of
0.50

Flag question

How can we initialize an array in C language?

Select one:

- ☒ a. `int arr[2]=(10, 20)`
☐ b. `int arr(2)={10, 20}`
☐ c. `int arr[2] = {10, 20}`
☐ d. `int arr(2) = {10, 20}`

[Clear my choice](#)**Question 3**Not yet
answeredMarked out of
0.50

Flag question

What is the time complexity to count the number of elements in the linked list?

Select one:

- ☐ a. $O(\log n)$
☐ b. $O(1)$
☐ c. $O(n^2)$
☒ d. $O(n)$

[Clear my choice](#)

Quiz navigation

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| 10 | | | | | | | | |

[Finish attempt ...](#)Time left **0:14:04**

Question 4

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0.50

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What is the space complexity for deleting a linked list?

Select one:

- ☐ a. $O(n)$
- ☐ b. $O(\log n)$
- ☐ c. Either $O(1)$ or $O(n)$
- ☒ d. $O(1)$

[Clear my choice](#)

Question 5

Not yet
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0.50

Flag question

Which of the following is the advantage of the array data structure?

Select one:

- ☐ a. Elements of mixed data types can be stored.
- ☒ b. Easier to access the elements in an array
- ☐ c. . Elements of an array cannot be sorted
- ☐ d. Index of the first element starts from 1.

[Clear my choice](#)

Question 6

Not yet
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0.50

Flag question

Which one of the following is the size of `int arr[9]` assuming that `int` is of 4 bytes?

Select one:

- ☒ a. 36
- ☐ b. 9
- ☐ c. None of the above
- ☐ d. 35

[Clear my choice](#)

Question 7

Not yet

In a circular linked list

[Clear my choice](#)

Question 7
Not yet answered
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In a circular linked list

Select one:

- ☐ a. Forward and backward traversal within the list is permitted.
- ☒ b. There is no beginning and no end.
- ☐ c. Components are all linked together in some sequential manner.
- ☐ d.) Components are arranged hierarchically.

[Clear my choice](#)

Question 8
Not yet answered
Marked out of 0.50
Flag question

A linear collection of data elements where the linear node is given by means of pointer is called?

Select one:

- ☒ a. Linked list
- ☐ b. Node list
- ☐ c. Primitive list
- ☐ d. None

[Clear my choice](#)

Question 9
Not yet answered
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Flag question

What would be the asymptotic time complexity to add a node at the end of singly linked list, if the pointer is initially pointing to the head of the list?

Select one:

- ☐ a. ? (n)
- ☐ b. $O(1)$
- ☐ c. ? (1)
- ☒ d. $O(n)$

[Clear my choice](#)

0.50

Flag question

- ☐ a. Linked list
- ☐ b. Node list
- ☐ c. Primitive list
- ☐ d. None

[Clear my choice](#)

Question 9

Not yet answered

Marked out of 0.50

Flag question

What would be the asymptotic time complexity to add a node at the end of singly linked list, if the pointer is initially pointing to the head of the list?

Select one:

- ☐ a. ? (n)
- ☐ b. $O(1)$
- ☐ c. ? (1)
- ☒ d. $O(n)$

[Clear my choice](#)

Question 10

Not yet answered

Marked out of 0.50

Flag question

Which of these is not an application of a linked list?

Select one:

- ☒ a. Random Access of elements
- ☐ b. For separate chaining in hash-tables
- ☐ c.) To implement file systems
- ☐ d. To implement non-binary trees

[Clear my choice](#)[Finish attempt ...](#)