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Questions

Checkboxes

1.0 point possible (graded, results hidden)

A linear array is said to be biased if the sum of all the elements in the array be a prime number. Which of the following arrays are not biased?

- [ ] [2,3,2,-1,3,1,1,2]
- [ ] [-1,5,-8,4]
- [ ] [2,3.5,-6,1.5]
- [ ] [1.1,2.2,3.3,4.4]

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you remove an element in index 2 and then insert an element in index 4, MINIMUM how many elements in total need to be shifted for the full operation? When an element in a particular index moves to its adjacent left or right index, it is counted as one shift.

- ◯ 5
- ◯ 6
- ◯ 7
- ◯ 8

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Multiple Choice

1.0 point possible (graded, results hidden)

Suppose you have the following circular array:

Value:	17	15	0	0	0	-2	-4	-2	8
Index:	0	1	2	3	4	5	6	7	8

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Right rotate 1 times
Delete the value at position 2 by right shifting

- [8 17 15 0 0 0 0 -2 -4]
- [8 17 15 0 0 0 0 -2 -2]
- [17 15 0 0 0 0 -2 -2 8]
- [17 0 0 0 0 -2 -4 -2 8]

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Multiple Choice

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If cir is a circular array of MX_LEN elements, and end is an index into that array, which statement will give you the index after end?

- (end % 1) + MX_LEN
- end % (1 + MX_LEN)
- (end + 1) % MX_LEN
- end + (1 % MX_LEN)

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Multiple Choice

1 point possible (graded, results hidden)

Mention what is traversal in linked lists?

- ◯ the operation of processing each element in the list
- ◯ the operation of printing each element in the list
- ◯ the operation of inserting new elements in the list
- ◯ the operation of changing head in the list

Submit

Multiple Choice

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See the pseudo code given below where head is the reference of first element

n= head

while(n.next!= null)

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- It prints all the elements of the linked list
- It prints all the elements except the last one
- It doesn't print all the elements
- head gets changed here

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Multiple Choice

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How many modifications of reference/pointer is needed for inserting a new node in a singly linked list?

- One ref/pointer
- Two ref/pointer
- Three ref/pointer
- None

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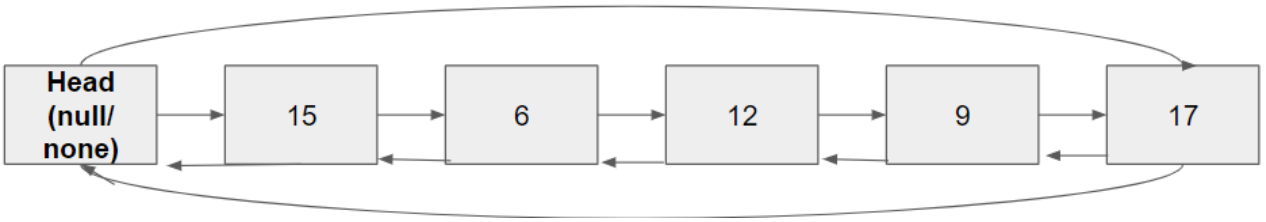

Consider the linked list [Head - 15 - 6 - 12 - 9 - 17] given above. What will be the final state of the linked list after performing the following pseudo code?

ALGO function(index)

newNode = head.prev.prev

predNode=newNode.prev

succNode=predNode.next

predNode.next=succNode

succNode.prev=predNode

newNode.elem=null/none

newNode.prev=null/none

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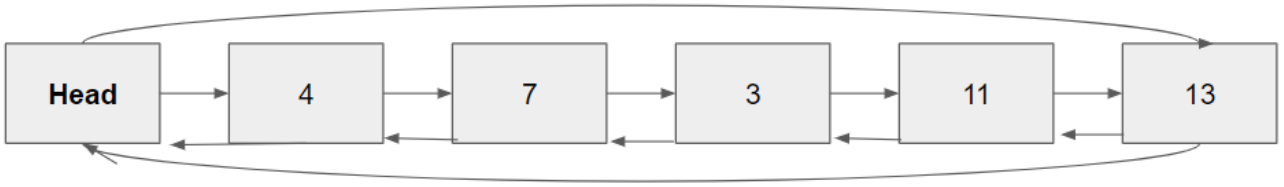
- ◯ [Head - 6 - 12 - 9 - 17]
- ◯ [Head - 15 - 6 - 12 - 17]
- ◯ [Head - 15 - 6 - 12 - 9]
- ◯ [Head - 15 - 12 - 9 - 17]

Submit You have used 0 of 1 attempt

Multiple Choice

1.0 point possible (graded, results hidden)



Consider the linked list [Head - 4 - 7 - 3 - 11 - 13] given below. What will be the final state of the linked list after performing the following pseudo code?

ALGO function()

tempNode=head.prev.prev

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tempNode=tempNode.prev

Note: None is used for Python and Null is used for Java.

- [3 - 7 - 4]
- [3 - 7 - 4 - Head]
- [4 - 7 - 3 - 11 - 13]
- [13 - 11 - 3 - 7 -4]
- [11 - 3 - 7 - 4]

Submit You have used 0 of 1 attempt

Multiple Choice

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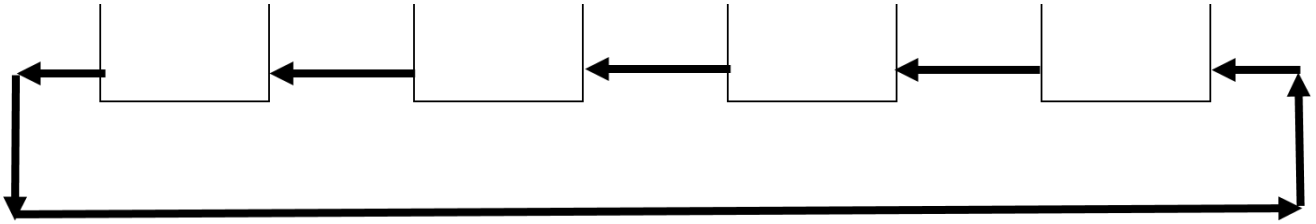

What will be the position of X if you run the following code?

while (x.next not equal to tail)

x=x.next

- ◯ x will be at tail
- ◯ x will be at head
- ◯ the loop will not run
- ◯ x will circle through the list and stop in its current position

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