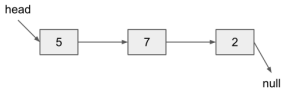
Set 06

1 What is wrong with the LinkedList's size implementation below?

```
public int size() {
    Node current = head;
    int count = 0;
    while (current.getNext() != null) {
        count++;
        current  = current.getNext();
    }
    return count;
}
```

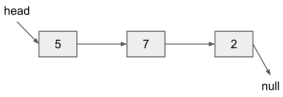
- A current should have been set to null
- B count should have been initialized to -1
- C count should have been incremented after "current = current.getNext()"
- ☑ the while loop condition should have been "current != null"

2 LinkedList lst = new LinkedList(); Which sequence will correctly configure the linked list below?



- ☑ lst.append(5); lst.append(7); lst.append(2);
- B lst.append(5); lst.append(7); lst.append(2); lst.append(null);
- C lst.add(5); lst.add(7); lst.add(2);
- D lst.add(null); lst.add(5); lst.add(7); lst.add(2);

3 Consider the linked list below. How would get the node that is associated with number 2?



- A head
- ☑ head.getNext().getNext()
- C head.getNext()
- D head.getNext().getNext().getNext()

4 Jane wants a list to represent a deck of 52 cards. Once the deck is created she does not expect having new cards added to the deck. Which data structure would best suit Jane's need?

- ☑ A static array
- B A dynamic array
- C A linked list
- D A tree

5 Bob needs to write code to maintain a collection of race competitors in memory. He does not know how may competitors to expect and maybe some competitors will have to be removed from the list because of cheating. Which data structure should he use?

- A A static array
- B A dynamic array
- ☑ A linked list
- D A tree