

Write append method

first...

Read over the `__init__` method for class `LLNode` and `LinkedList`:

```
class LinkedListNode:
    """
    Node to be used in linked list

    === Attributes ===
    next_ - successor to this LinkedListNode
    value - data represented by this LinkedListNode
    """
    next_: Union["LinkedListNode", None]

    def __init__(self, value: object,
                  next_: Union["LinkedListNode", None]=None) -> None:
        """
        Create LinkedListNode self with data value and successor next

        >>> LinkedListNode(5).value
        5
        >>> LinkedListNode(5).next_
        """
        self.value, self._next = value, next_

class LinkedList:
    """
    Collection of LinkedListNodes

    === Attributes ==
    front - first node of this LinkedList
    back - last node of this LinkedList
    size - number of nodes in this LinkedList, >= 0
    """
    front: LinkedListNode
    back: LinkedListNode
    size: int

    def __init__(self) -> None:
        """
        Create an empty linked list.
        """
        self.front, self.back, self.size = None, None, 0
```

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next...

Now, read the header and docstring for the method **append**, and then answer the questions that follow it.

```
def append(self, value: object) -> None:
    """
    Insert a new LinkedListNode with value after self.back.

    >>> lnk = LinkedList()
    >>> lnk.append(5)
    >>> lnk.size
    1
    >>> print(lnk.front)
    5 ->|
    >>> lnk.append(6)
    >>> lnk.size
    2
    >>> print(lnk.front)
    5 -> 6 ->|
    """
    pass
```

1. What if this is the first node being appended? Show this with a diagram.

2. What if there are already some nodes in the list? Show this with a diagram.

Now implement the body of **append**