4.2 Traversing Linked Lists

HOW TO TRANSVERSE A LINKED LIST:

How to write code that visits each element in a linked list one at a time, regardless
of the linked lists length

THE CODE SEGMENT (transversal template):

- 1. Initialize the index i (0 refers to the start of the list)
- 2. Check if we've reached the end of the list
- 3. Do smth with the current element my list[i]
- 4. Increment the index
- **Transversing a linked list: the temporary variable now refers to a particular _node object **

```
def to_list(self) -> list:
    """Return a (built-in) list that contains the same elements as this list.
    """
    items = []
    curr = self._first
    while curr is not None:
        items.append(curr.item)
        curr = curr.next
    return items
```

MAIN TEMPLATE:

```
curr = my_linked_list._first
while curr is not None:
    ... curr.item ...
curr = curr.next
```