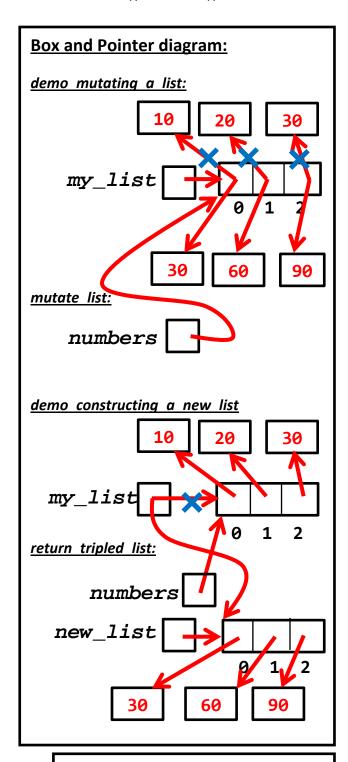
8. We have seen that it is simply not possible for a function to change the arrow in the *caller* that corresponds to one of the function's arguments. But many objects can be *mutated*, which means that *the object's value* (not the variable's reference) changes.

To see this, draw a Box and Pointer diagram that shows what happens when *main* (below) executes. Also show the output that is printed. Do NOT show boxes for the loop variables **k** and **number**, since that would clutter the diagram.

```
def main():
    demo_mutating_a_list()
    demo_constructing_a_new_list()
def demo_mutating_a_list():
    my_list = [10, 20, 30]
   mutate list(my list)
    print('A.', my_list)
def mutate list(numbers):
    for k in range(len(numbers)):
        numbers[k] = numbers[k] * 3
def demo_constructing_a_new_list():
    my_list = [10, 20, 30]
    my_list = return_tripled_list(my_list)
    print('B.', my_list)
def return_tripled_list(numbers):
    new_list = []
    for number in numbers:
        new list.append(number * 3)
    return new list
```



```
Output:
A. [30, 60, 90]
```

[30, 60, 90]