

Let's consider some of the finer points of pythonic programming:

1. Convert the following if/else into a one-line return statement:

```
if mylist is not None and len(mylist) > 24:
    return True
else:
    return False
```

2. Convert the following loop into a one-line list comprehension:

```
newList = []
for v in mylist:
    newList.append(v + 5)
```

3. Convert the following loop into a one-line list comprehension:

```
filterList = []
for v in mylist:
    if v > 7:
        filterList.append(v)
```

4. Fix this function, which should generate a stream of lowercase letters in a given String, mystr:

```
def findLowers(mystr):
    currentIndex = 0
    while True:
        if mystr[currentIndex].islower():
            return mystr[currentIndex]
            currentIndex += 1
```

5. Write a line of code that prints the length of LinkedList, ll:

```
ll = LinkedList()
ll.extend([0,1,2,3,4,5])
```

6. `sum(self)` is a method within the `LinkedList` class. Write a line of code that uses this method to print the `LinkedList`, `ll`'s, sum:

7. `__contains__(self)` is a special method in Python. Write a line of code that *implicitly* calls this method, to see if our `LinkedList`, `ll`, contains the value 24:

8. Recall our `Tree` class. Write a method for `Tree` objects that counts the number of leaf nodes in the tree: