Extending a List

```
◆ How about this? Will this work?
class BadSumList(list):
    def __init__(self, *args, **kw):
        super().__init__(*args, **kw)
        self._sum = None
    def sum(self):
        if not self._sum:
             self. sum = sum(self)
        return self. sum
```

Mutability Problem

```
>>> data = BadSumList([11, 12, 13, 14, 15])
>>> data.sum()
65
>>> data.append(999)
>>> data
[11, 12, 13, 14, 15, 999]
>>> data.sum()
```