

Good Summing List

```
class GoodSumList(list):
    def __init__(self, *args, **kw):
        super().__init__(*args, **kw)
        self._mutated()
    def _mutated(self):
        self._sum = None
    def append(self, *args, **kw):
        super().append(*args, **kw)
        self._mutated()
    def sum(self):
        if not self._sum:
            self._sum = sum(self)
        return self._sum
```


Good Example

```
>>> g = GoodSumList([11, 12, 13, 14, 15])
>>> g.sum()
65
>>> g.append(999)
>>> g
[11, 12, 13, 14, 15, 999]
>>> g.sum()
1064
```