

Quiz 4

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1. Implement a function `running_total` that mutates a list of numbers such that the i^{th} element is the sum of the first $i + 1$ elements.

```
def running_total(lst):
    """Computes a running total over a list of numbers.
    >>> l = [1, 2, 3]
    >>> running_total(l) # mutate the original list, return None
    >>> l # [1, 1+2, 1+2+3]
    [1, 3, 6]
    """

    total = 0
    for i in range(len(lst)):
        total += lst[i]
        lst[i] = total
```

2. Draw the environment diagram.

```
def world(series):  
    if len(series) % 2 == 0:  
        series[0] = series[:2]  
        return [series.pop(1)]  
    else:  
        return series[:2]
```

```
blue_jays = [1, 2, 3, 4]  
cardinals = world(blue_jays)  
cubs = world(blue_jays)  
royals = world(cubs)
```

<http://goo.gl/G60ufw>