# Problem Wk.5.3.5: The mean of a list of numbers

The *mean* (or average) of a list of *n* numbers is the sum of the numbers divided by *n*. For example, the mean of 2, 7, 3, 9, and 13 is (2+7+3+9+13)/5, or 6.8. Write a procedure `mean` that takes as input a list of numbers (of any length) and returns the mean. It should have type list(num) -> float.

One thing to watch out for is an empty list as input. It's not clear that any numeric answer makes sense here. You should just return None

You can implement this as an extremely short procedure if you use the Python built-in procedures `sum`, which returns the sum of the elements of a list, and `len`, which returns the length of a list.

If your procedure says that the mean of 1 and 2 is 1, rather than 1.5, then you've been tricked by Python's division (/) operation. Be careful.

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