

Challenge

Spare Time Teaching

March 22, 2014

You may not add parameters or change the output.

Introduction

Storing numbers can take up a lot of memory, this is annoying especially if the numbers are fairly close to each other. A reasonable fix is to instead of storing the number, one could store the difference to the average of the numbers.

Problem

Implement a `sub_avg` function in Scheme, which takes a list and subtracts the average of the list from every element in the list, in n recursive calls.

Example

```
> (sub_avg '(1 2 3))
(-1 0 1)
> (sub_avg '(15000 14700 15300 14900 15100))
(0 -300 300 -100 100)
```