

CSCE 330 Fall 2012

PROGRAM 4

Assigned Tuesday 2012-10-23. Due Thursday 2012-11-01.

1. Write an fp function to add two vectors of the same length represented as sequences. Call the function *adv*. For example, `adv: <<1,2,3>,<1,2,3>>` should equal `<2,4,6>`.
2. Write an fp function to add any number of vectors of the same length represented as sequences. Call the function *adv*s. For example, `adv: <<1,2,3>,<1,2,3>,<2,3,4>>` should equal `<4,7,10>`.
3. Write a function that tests whether its argument is zero. Call it *iszero*. So, for example, `iszero:1` is F, while `iszero:0` is T.

Test your programs using the fp interpreter written by Carter Bays and linked to the web site for our course to test your programs. Submit a hardcopy document with the three programs. No comments are required. Please note the interpreter has a bug concerning the use of numbers in function names: do not use number in function names.