CSCE 330 Fall 2006

PROGRAM 4

Assigned Thursday 2006-11-30. Due Thursday 2006-12-07.

1. Write an fp function to add two vectors of the same length represented as sequences. Call the function *addv*. For example, `addv: <<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 *addvs*. For example, `addvs: <<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 (`http://www.cse.sc.edu/~bays/FPlink`) and linked to the web site for our course to test your programs. Submit your programs using the departmental dropbox `project 2` in three separate text files, called `addv`, `addvs`, and `iszero`, respectively.